nume	gradul didactic	A1 Activitatea didactică și profesională					A2 Activitatea de cercetare		A3 Recunoaștere și impactul activității
		1.1 Cărți și capitole în cărți de specialitate		1.2 Material didactic/lucrări didactice		1.4 Granturi/proiecte de cercetare in valoare V euro câștigate prin competiție	2.1 Articole în reviste cotate ISI	2.2 Articole în reviste cotate ISI (prim autor/autor corespondent)	3.1 Citări în reviste
		1.1.1.1 carte editura internationala	1.1.1.2 carti ed. nationale, proceedings cu ISBN	1.2.1 manuale	1.2.2 materiale didactice				
Gabriela BORCIA	**conf.**	0.6	0.7	0.6	0.6	2.44	6.09	13.62	216.43
							(min. 4)	(min. 3)	(min. 30)

A1: 0.6 + 0.7 + 0.6 + 0.6 + 2.44 = 4.94

A2: I/2 = 3.05; P/1.5 = 9.08; I/2 + P/1.5 = 12.13

A3: C/15 = 14.43

Domeniul de activitate	Punctaj realizat	Conditii Profesor /CS I/ Abilitare
Activitatea didactică/profesională (A1)	**4.94**	**Minimum 2 puncte**
Activitatea de cercetare (A2)	**12.13**	**Minimum 4 puncte**
Recunoaşterea şi impactul activităţii (A3)	**14.43**	**Minimum 2 puncte**
TOTAL	**31.5**	**Minimum 8 puncte**

Indeplinirea standardelor minimale obligatorii stabilite de comisia Fizică din cadrul CNATDCU.

Activitatea didactică şi profesională (A1)	Indicatori (kpi)
1.1 Cărţi şi capitole în cărţi de specialitate	**1.3**
1.1.1 Carti si capitole în carti de specialitate ca autor sau co-autor	**1.3**
1.1.1.1. Carte / editura recunoscuta international	**0.6**
G. Borcia, Chap. 3 X-ray photoelectron spectroscopy of polymers, in Surface properties of polymers, C. Vasile, M.C. Pascu, Eds., 2007, pp. 91-129 (39 pagini), Research Signpost, 37/661 (2), Fort P.O., Trivandrum-695 023, Kerala, India, ISBN 978-81-308-0142-1	0.6
1.1.1.2. Carte/capitol / editura nationala	**0.6**
G. Borcia, Introducere în teoria cuantică a atomului şi moleculei, Editura Sedcom Libris, Iaşi, 2006, 318 pagini,	0.3
G. Borcia, N. Dumitrascu, Cap. VI "Tratamentele cu plasmă ale polimerilor naturali şi/sau sintetici. Importanţă şi aplicaţii în domeniul medical", pp. 151-175 (25 pagini), în "Polimeri degradabili şi biocompatibili", Editori: C. Vasile, A. P. Chiriac, L. E. Niţă, Tehnopress, Iaşi, 2006, ISBN 978-973-702-378-0	0.3
1.1.1.2. Proceedings cu ISBN dar neindexat international (cumulat cel putin 25 pagini)	**0.1**

1. I. Topala, M. Asandulesa, **G. Borcia**, N. Dumitrascu, "Application of natural polymers DBD treatment to painting", 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (19th ESCAMPIG), Granada, Spain, 15-19 July 2008; Full text abstracts (2 pp.) - paper no. 1-63; CD-ROM - Published by: European Physical Society, Volume number: 32 A, ISBN 2-914771-04-5. **2 pagini** 2. N. Dumitrascu, **G. Borcia**, C. Borcia, "Control of the blood-polymer materials interface by plasma treatments", 18th International Symposium on Plasma Chemistry (ISPC 18), August 26 – 31 2007, Kyoto University, Japan; paper00229.pdf (4 pp.), Full-Papers CD, published by International Plasma Chemistry Society, ISBN 978-4-9903773-3-5. **4 pagini** 3. R. Cazan, A. Chiper, **G. Borcia**, G. Popa, "Influence of the spatial distribution of reactive species on the surface modification of polymers by DBD", 18th International Symposium on Plasma Chemistry (ISPC 18), August 26 – 31 2007, Kyoto University, Japan; paper00230.pdf (4 pp.), Full-Papers CD, published by International Plasma Chemistry Society, ISBN 978-4-9903773-3-5. **4 pagini** 4. C. Borcia, **G. Borcia**, N. Dumitrascu, "Plasma surface modification in relation to polymer properties", XXVIII International Conference on Phenomena in Ionized Gases (ICPIG), July 15-20, 2007, Prague, Czech Republic; paper in extenso (pp. 700-703) on CD - Proceedings of XXVIII ICPIG, published by Institute of Plasma Physics AS CR, ISBN 978-80-87026-01-4. **4 pagini** 5. I.A. Rusu, **G. Borcia**, S.O. Sayed, J.L. Sullivan, "Ar rf plasma effect on polymer surfaces", XXVIII International Conference on Phenomena in Ionized Gases (ICPIG), July 15-20, 2007, Prague, Czech Republic; paper in extenso on CD (pp. 704-707) - Proceedings of XXVIII ICPIG, published by Institute of Plasma Physics AS CR, ISBN 978-80-87026-01-4. **4 pagini** 6. I. Topala, **G. Borcia**, N. Dumitrascu, G. Popa, "Surface modification of polymers used in medicine by dielectric barrier discharge treatments", Conference on European Research in Cold Plasma Applications, 12-13 Febr., 2007, Iasi, Romania; pp. 87-98 ISBN 978-973-0-04933-6. **12 pagini** 7. N. Dumitrascu, **G. Borcia**, V. Pohoata, I. Topala, M. Asandulesa, "Wood treatment by DBD plasma", 18th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), July 12-16, 2006, Lecce, Italy; Europhysics Conference Abstracts, Volume 30 G, pp. 475-476, published by European Physical Society, ISBN 2-914771-38-X. **2 pagini**	0.1

1.2 Material didactic/Lucrări didactice **1.2**

1.2.1 Manuale didactice tiparite sau publicate electronic, accesibile pe pagina web **0.6**

G. Borcia, Fizica atomului şi moleculei, Editura Sedcom Libris, Iaşi, 2014, 195 pagini, ISBN 978-973-670-136-8	0.2
G. Borcia, Fizica atomului şi moleculei: note de curs şi aplicaţii, Editura Sedcom Libris, Iaşi, 2006, 293 pagini, ISBN 978-973-670-182-5	0.2
G. Borcia, Polymer Physics (Master, anul II) - Lecture Notes (2015) http://www.plasma.uaic.ro/didactica/course/view.php?id=18	0.2

1.2.2. Materiale didactice suport pentru aplicatii (laborator, seminar, etc.) tiparite sau publicate electronic, accesibile pe pagina web **0.6**

G. Borcia, coordonator volum, Lucrări de laborator - Fizica atomului şi moleculei, autori A. Chiper, C. Borcia, I. Topală, **G. Borcia**, Editura Universităţii „Alexandru Ioan Cuza" Iaşi, 2014, 231 pagini, ISBN 978-606-714-090-3	0.2
G. Borcia, Fizica moleculei - note de curs (2015), **G. Borcia**, Fizica moleculei - note de curs (2015) - extensiunea Balti **G. Borcia**, Fizica moleculei - support seminar (2015) - extensiunea Balti http://www.plasma.uaic.ro/didactica/course/view.php?id=7	0.2
G. Borcia, Polymer Physics (Master, anul II) - Laboratory Guide (2015) http://www.plasma.uaic.ro/didactica/course/view.php?id=18	0.2

1.4 Coordonare Granturi/proiecte de cercetare in valoare V euro prin competitie **2.44**

	valoare lei	valoare V euro	Indicatori (kpi)
Director proiect, PN-II-PT-PCCA-2013-4-0325, contract de finanţare nr. 254/2014, „Adeziune şi stabilitate controlată a ţesăturilor tratate în plasmă pentru aplicaţii industriale" (CASPIA), 2014-2017, valoarea finanţării 750.000 lei - 171.057 EUR (01.07.2014 - EUR=4,3845)	750000	171057.1331	1.368457065
Responsabil proiect, CEEX nr. 61/2006 (Biotech), „Studiul şi realizarea de tehnologii inovative bazate pe utilizarea plasmei la presiune atmosferică" (TRATPLAS), finanţat prin Centrul Naţional de Management Programe, 2006-2008, valoarea finanţării 390.000 lei - 116.210 EUR (03.01.2007 - EUR=3.356)	390000	116209.7735	0.929678188
Director proiect, Grant CNCSIS nr. 68/2004, „Aplicaţii în tratamente de suprafaţă ale unei descărcări cu barieră dielectrică (DBD) omogene în amestecuri de gaze, 2004-2005, valoarea finanţării 70.000 lei - 17.807 EUR (03.01.2005 - EUR=3.931)	70000	17807.17375	0.14245739
Total		305074.0804	2.440592643

Total criteriu A1 = (1.1) + (1.2) + (1.4) = 1.3 + 1.2 + 2.44 = 4.94 **4.94** (min. 2)

2. Activitatea de cercetare (A2) (tabelele anexate)

2.1 Articole în reviste cotate ISI Thomson Reuters şi în volume indexate ISI proceedings

indicator I **6.09** **(min. 4)**

2.2 Articole în reviste cotate ISI Thomson Reuters şi în volume indexate ISI proceedings pentru care candidatul este prim-autor sau autor corespondent.

indicator P **13.62** **(min. 3)**

Total criteriu A2 = I/2 + P/1.5 **12.13**

3. Recunoaşterea şi impactul activităţii (A3) (tabelul anexat)

3.1 Citări în reviste indexate ISI

indicator C **216.43** **(min. 30)**

Total criteriu A3 = C/15 **14.43**

Indicator de merit A = A1 + A2 + A3 **31.49**

Domeniul de activitate	Punctaj realizat	Conditii Profesor /CS I/ Abilitare
Activitatea didactică/profesională (A1)	4.94	Minimum 2 puncte
Activitatea de cercetare (A2)	12.13	Minimum 4 puncte
Recunoaşterea şi impactul activităţii (A3)	14.43	Minimum 2 puncte
TOTAL	31.5	Minimum 8 puncte

Articole în reviste cotate ISI

						Scor influenta	Nr. efectiv autori	Punctaj articol	Punctaj prim autor	Nr. citari	Punctaj citari
Autori	Titlu	Revista	Vol	Pag.	An	a	n_ef	a / n_ef	a_prim	c	c/n_ef
Rusu, G. B.; Topala, I.; Borcia, C.; Dumitrascu, N.; **Borcia, G.**	Effects of Atmospheric-Pressure Plasma Treatment on the Processes Involved in Fabrics Dyeing	PLASMA CHEM PLASMA P	36 (1)	341-354	2016	0.46	5	0.092	0.46	0	0
Borcia, C.; Punga, I. L.; **Borcia, G.**	Surface properties and hydrophobic recovery of polymers treated by atmospheric-pressure plasma	APPL SURF SCI	317	103-110	2014	0.55	3	0.1833333	0.55	5	1.66667
Broasca, G.; **Borcia, G.**; Dumitrascu, N.; Vrinceanu, N.	Broasca, G.; Borcia, G.; Dumitrascu, N.; Vrinceanu, N., Characterization of ZnO coated polyester fabrics for UV protection	APPL SURF SCI	279	272-278	2013	0.55	4	0.1375	0.55	11	2.75
Chiper, A.; **Borcia, G.**	Argon Versus Helium Dielectric Barrier Discharge for Surface Modification of Polypropylene and Poly(methyl methacrylate) Films	PLASMA CHEM PLASMA P	33 (3)	553-568	2013	0.7938	2	0.3969	0.7938	3	1.5
Borcia, C.; Dumitrascu, N.; **Borcia, G.**	COMPARING THE MODIFICATION INDUCED BY PLASMA AND UV RADIATION TO POLYMER SURFACES	ROM REP PHYS	64	163-172	2012	0.1493	3	0.0497667	0	1	0.33333
Borcia, G.; Cazan, R.; Popa, G.	Investigation of Oxygen Metastable Distribution in Atmospheric-Pressure DBD Using TDLAS	IEEE T PLASMA SCI	39	2102-2103	2011	0.4	3	0.1333333	0.4	3	1
Borcia, G.; Cazan, R.; Borcia, C.	DBD Surface Modification of Polymers in Relation to the Spatial Distribution of Reactive Oxygen Species	PLASMA CHEM PLASMA P	31	729-740	2011	0.8	3	0.2666667	0.8	2	0.66667
Borcia, C.; **Borcia, G.**; Dumitrascu, N.	SURFACE TREATMENT OF POLYMERS BY PLASMA AND UV RADIATION	ROM J PHYS	56 (1-2)	224-232	2011	0.09	3	0.03	0	8	2.66667
Borcia, C.; **Borcia, G.**; Dumitrascu, N.	Atmospheric-Pressure Dielectric Barrier Discharge for Surface Processing of Polymer Films and Fibers	IEEE T PLASMA SCI	37 (6)	941-945	2009	0.4	3	0.1333333	0	7	2.33333

Borcia, G.; Borcia, C.; Dumitrascu, N.	TEMPORAL EVOLUTION OF PULSED ATMOSPHERIC PRESSURE DBD IN ASYMMETRIC CONFIGURATION	ROM J PHYS	54 (7-8)	689-697	2009	0.1	3	0.0333333	0.1	0	0
Dumitrascu, N.; Borcia, C.; **Borcia, G.**	Control of the Blood-Polymer Interface by Plasma Treatment	J BIOMED MATER RES B	87B (2)	364-373	2008	0.7	3	0.2333333	0.7	5	1.66667
Cazan, R.; **Borcia, G**.; Chiper, A.; Popa, G.	Time-space resolved distribution of oxygen metastable atoms in an axially symmetrical atmospheric pressure barrier discharge	PLASMA SOURCES SCI T	17 (3)	35020	2008	1	4	0.25	1	5	1.25
Borcia, C.; **Borcia, G**.; Dumitrascu, N.	Relating plasma surface modification to polymer characteristics	APPL PHYS A-MATER	90 (3)	507-515	2008	0.7	3	0.2333333	0.7	15	5
Rusu, I.; **Borcia, G**.; Sayed, S.; Sullivan, J.	Polymer surfaces treated by argon rf plasma	J OPTOELEC-TRON ADV M	10 (3)	668-671	2008	0.11	4	0.0275	0.11	1	0.25
Borcia, C.; **Borcia, G**.; Dumitrascu, N.	Plasma induced surface modification in relation to polymer characteristics	J OPTOELEC-TRON ADV M	10 (3)	675-679	2008	0.11	3	0.0366667	0.11	4	1.33333
Borcia, G.; Brown, N.	Hydrophobic coatings on selected polymers in an atmospheric pressure dielectric barrier discharge	J PHYS D APPL PHYS	40 (7)	1927-1936	2007		2	0	0	33	16.5
Borcia, G.; Anderson, C.; Brown, N.	Surface treatment of natural and synthetic textiles using a dielectric barrier discharge	SURF COAT TECH	201 (6)	3074-3081	2006	0.7	3	0.2333333	0.7	64	21.3333
Borcia, G.; Chiper, A.; Rusu, I.	Using a He+N-2 dielectric barrier discharge for the modification of polymer surface properties	PLASMA SOURCES SCI T	15 (4)	849-857	2006	1	3	0.3333333	1	32	10.6667
Borcia, G.; Rusu, I.; Popa, G.	Surface modification of polymethylmetacrylate films using dielectric barrier discharge	J OPTOELEC-TRON ADV M	8 (3)	1048-1052	2006	0.13	3	0.0433333	0.13	4	1.33333
Borcia, G.; Dumitrascu, N.; Popa, G.	Influence of dielectric barrier discharge treatments on the surface properties of polyamide-6 films	J OPTOELEC-TRON ADV M	7 (5)	2535-2538	2005	0.12	3	0.04	0.12	8	2.66667

Borcia, G.; Dumitrascu, N.; Popa, G.	Influence of helium-dielectric barrier discharge treatments on the adhesion properties of polyamide-6 surfaces	SURF COAT TECH	197 (2-3)	316-321	2005	0.8	3	0.2666667	0.8	23	7.66667
Borcia, G.; Anderson, C.; Brown, N.	Using a nitrogen dielectric barrier discharge for surface treatment	PLASMA SOURCES SCI T	14 (2)	259-267	2005	1	3	0.3333333	1	41	13.6667
Borcia, G.; Anderson, C.; Brown, N.	The surface oxidation of selected polymers using an atmospheric pressure air dielectric barrier discharge. Part II	APPL SURF SCI	225 (1-1)	186-197	2004	0.7	3	0.2333333	0.7	64	21.3333
Borcia, G.; Brown, N.; Dixon, D.; McIlhagger, R.	The effect of an air-dielectric barrier discharge on the surface properties and peel strength of medical packaging materials	SURF COAT TECH	179 (1)	70-77	2004	0.7	4	0.175	0.7	14	3.5
Borcia, G.; Anderson, C.; Brown, N.	The surface oxidation of selected polymers using an atmospheric pressure air dielectric barrier discharge. Part I	APPL SURF SCI	221 (1-4)	203-214	2004	0.7	3	0.2333333	0.7	68	22.6667
Viville, P.; Lazzaroni, R.; Pollet, E.; Alexandre, M.; Dubois, P.; **Borcia, G**.; Pireaux, J.	Surface characterization of poly(epsilon-caprolactone)-based nanocomposites	LANGMUIR	19 (22)	9425-9433	2003	1.4	5.66	0.2473498	0	40	7.06714
Dumitrascu, N.; **Borcia, G**.; Apetroaei, N.; Popa, G.	Immobilization of biologically active species on PA-6 foils treated by a dielectric barrier discharge	J APPL POLYM SCI	90 (7)	1985-1990	2003	0.5	4	0.125	0	7	1.75
Borcia, G.; Anderson, C.; Brown, N.	Dielectric barrier discharge for surface treatment: application to selected polymers in film and fibre form	PLASMA SOURCES SCI T	12 (3)	335-344	2003	1	3	0.3333333	1	115	38.3333
Viville, P.; Lazzaroni, R.; Dubois, P.; Kotzev, A.; Geerts, Y.; **Borcia, G**.; Pireaux, J.	Impact of silicone-based block copolymer surfactants on the surface and bulk microscopic organization of a biodegradable polymer, poly(epsilon-caprolactone)	BIOMACRO-MOLECULES	4 (3)	696-703	2003	1	5.66	0.1766784	0	3	0.53004
Dumitrascu, N.; **Borcia, G**.; Apetroaei, N.; Popa, G.	Roughness modification of surfaces treated by a pulsed dielectric barrier discharge	PLASMA SOURCES SCI T	11 (2)	127-134	2002	1	4	0.25	0	26	6.5

Dumitrascu, N.; **Borcia, G**.; Popa, G.	Corona discharge treatments of plastified PVC samples used in biological environment	J APPL POLYM SCI	81 (10)	2419-2425	2001	0.5	3	0.1666667	0	3	1
Arefi-Khonsari, F.; **Placinta, G.;** Amouroux, J.; Popa, G.	Study of plasmas in He-O-2 mixtures and their role on the stability of the surface properties of polymers	EUR PHYS J-APPL PHYS	4 (2)	193-201	1998	0	4	0	0	17	4.25
Placinta, G.; ArefiKhonsari, F.; Gheorghiu, M.; Amouroux, J.; Popa, G.	Surface properties and the stability of poly(ethylene terephthalate) films treated in plasmas of helium-oxygen mixtures	J APPL POLYM SCI	66 (7)	1367-1375	1997	0.5	5	0.1	0.5	40	8
Gheorghiu, M.; Arefi, F.; Amouroux, J.; **Placinta, G**.; Popa, G.; Tatoulian, M.	Surface cross linking and functionalization of poly(ethylene terephthalate) in a helium discharge	PLASMA SOURCES SCI T	6 (1)	8-19	1997	3	5.33	0.5628518	0	28	5.25328
								I	**P**	700	**C**
							Total	**6.09**	**13.62**		**216.43**
							Prag	4	3		30
							A	3.05	9.08		14.43

Citări în reviste cotate ISI

1	**Borcia, C.; Punga, I. L.; Borcia, G., Surface properties and hydrophobic recovery of polymers treated by atmospheric-pressure plasma. *Applied Surface Science* 2014, *317* , 103-110.**
1	Zaplotnik, R.; Vesel, A.; Primc, G.; Liu, X.; Chen, K. C.; Wei, C.; Xu, K.; Mozetic, M., Rapid Hydrophilization of Model Polyurethane/Urea (PURPEG) Polymer Scaffolds Using Oxygen Plasma Treatment. *Polymers* 2016, *8* (4).
2	Vesel, A.; Kovac, J.; Primc, G.; Junkar, I.; Mozetic, M., Effect of H2S Plasma Treatment on the Surface Modification of a Polyethylene Terephthalate Surface. *Materials* 2016, *9* (2).
3	Ivanova, T. V.; Baier, G.; Landfester, K.; Musin, E.; Al-Bataineh, S. A.; Cameron, D. C.; Homola, T.; Whittle, J. D.; Sillanpaa, M., Attachment of Poly(l-lactide) Nanoparticles to Plasma-Treated Non-Woven Polymer Fabrics Using Inkjet Printing. Macromolecular Bioscience 2015, 15 (9),
4	Wang, R.; Zhang, C.; Liu, X.; Xie, Q.; Yan, P.; Shao, T., Microsecond pulse driven Ar/CF4 plasma jet for polymethylmethacrylate surface modification at atmospheric pressure. *Applied Surface Science* 2015, *328* , 509-515.
5	Li, B.; Zhang, J.; Ren, M.; Wu, P.; Liu, Y.; Chen, T.; Cheng, Z.; Wang, X.; Liu, X., Various surface functionalizations of ultra-high-molecular-weight polyethylene based on fluorine-activation behavior. *Rsc Advances* 2015, *5* (96), 79081-79089.

2	**Broasca, G.; Borcia, G.; Dumitrascu, N.; Vrinceanu, N., Characterization of ZnO coated polyester fabrics for UV protection. *Applied Surface Science* 2013, *279* , 272-278.**
1	Tang, B.; Yao, Y.; Li, J.; Qin, S.; Zhu, H.; Kaur, J.; Chen, W.; Sun, L.; Wang, X., Functional Application of Noble Metal Nanoparticles In Situ Synthesized on Ramie Fibers. *Nanoscale Research Letters* 2015, *10* .
2	Staneva, D.; Atanasova, D.; Vasileva-Tonkova, E.; Lukanova, V.; Grabchev, I., A cotton fabric modified with a hydrogel containing ZnO nanoparticles. Preparation and properties study. *Applied Surface Science* 2015, *345* , 72-80.
3	Rashad, M.; Shaalan, N. M.; Hafiz, M. M., ENHANCED PHOTOCATALYTIC OF ZnO NANOSTRUCTURES VIA SHAPE CONTROLLED PLATINUM THIN FILM. *Digest Journal of Nanomaterials and Biostructures* 2015, *10* (3), 823-830.
4	Rehan, M.; Mashaly, H. M.; Mowafi, S.; Abou El-Kheir, A.; Emam, H. E., Multi-functional textile design using in-situ Ag NPs incorporation into natural fabric matrix. *Dyes and Pigments* 2015, *118* , 9-17.
5	Xiao, X.; Liu, X.; Cao, G.; Zhang, C.; Xia, L.; Xu, W.; Xiao, S., Atomic layer deposition TiO2/Al2O3 nanolayer of dyed polyamide/aramid blend fabric for high intensity UV light protection. *Polymer Engineering and Science* 2015, *55* (6), 1296-1302.
6	Nateghi, M. R.; Shateri-Khalilabad, M., Silver nanowire-functionalized cotton fabric. *Carbohydrate Polymers* 2015, *117* , 160-168.

7	Barani, H., Preparation of antibacterial coating based on in situ synthesis of ZnO/SiO2 hybrid nanocomposite on cotton fabric. *Applied Surface Science* 2014, *320* , 429-434.
8	Lahtinen, K.; Kaariainen, T.; Johansson, P.; Kotkamo, S.; Maydannik, P.; Seppanen, T.; Kuusipalo, J.; Cameron, D. C., UV protective zinc oxide coating for biaxially oriented polypropylene packaging film by atomic layer deposition. Thin Solid Films 2014, 570, 33-37.
9	Gorjanc, M.; Jazbec, K.; Sala, M.; Zaplotnik, R.; Vesel, A.; Mozetic, M., Creating cellulose fibres with excellent UV protective properties using moist CF4 plasma and ZnO nanoparticles. *Cellulose* 2014, *21* (4), 3007-3021.
10	Olmos, D.; Prolongo, S. G.; Gonzalez-Benito, J., Thermo-mechanical properties of polysulfone based nanocomposites with well dispersed silica nanoparticles. *Composites Part B-Engineering* 2014, *61* , 307-314.
11	Raza, A.; Li, Y.; Sheng, J.; Yu, J.; Ding, B., *Protective Clothing Based on Electrospun Nanofibrous Membranes* . 2014; p 355-369.

3	**Chiper, A.; Borcia, G., Argon Versus Helium Dielectric Barrier Discharge for Surface Modification of Polypropylene and Poly(methyl methacrylate) Films. *Plasma Chemistry and Plasma Processing* 2013, *33* (3), 553-568.**
1	Bartis, E. A. J.; Luan, P.; Knoll, A. J.; Graves, D. B.; Seog, J.; Oehrlein, G. S., A comparative study of biomolecule and polymer surface modifications by a surface microdischarge. *European Physical Journal D* **2016,** *70* (2).
2	Vesel, A.; Kovac, J.; Primc, G.; Junkar, I.; Mozetic, M., Effect of H2S Plasma Treatment on the Surface Modification of a Polyethylene Terephthalate Surface. *Materials* **2016,** *9* (2).
3	Khodadadei, F.; Ghourchian, H.; Soltanieh, M.; Hosseinalipour, M.; Mortazavic, Y., Rapid and clean amine functionalization of carbon nanotubes in a dielectric barrier discharge reactor for biosensor development. *Electrochimica Acta* 2014, *115* , 378-385.

4	**Borcia, C.; Dumitrascu, N.; Borcia, G., COMPARING THE MODIFICATION INDUCED BY PLASMA AND UV RADIATION TO POLYMER SURFACES. *Romanian Reports in Physics* 2012, *64* (1), 163-172.**
1	Asakawa, Y.; Takahashi, H.; Iwasaki, N.; Kobayashi, M., Effect of ultraviolet light irradiation period on bond strengths between fiber-reinforced composite post and core build-up composite resin. *Dental Materials Journal* 2014, *33* (1), 133-140.

5	**Borcia, G.; Cazan, R.; Popa, G., Investigation of Oxygen Metastable Distribution in Atmospheric-Pressure DBD Using TDLAS. *Ieee Transactions on Plasma Science* 2011, *39* (11), 2102-2103.**

1	McConkey, J. W.; Kedzierski, W., Detection of Metastable Atoms and Molecules using Rare Gas Matrices. *Advances in Atomic, Molecular, and Optical Physics, Vol 63* 2014, *63* , 1-46.
2	Kedzierski, W.; Hein, J. D.; Tiessen, C. J.; Lukic, D.; Trocchi, J. A.; Mlinaric, T. Z.; McConkey, J. W., Production of O(D-1) following electron impact on CO2. *Canadian Journal of Physics* 2013, *91* (12), 1044-1048.
3	Bruggeman, P.; Brandenburg, R., Atmospheric pressure discharge filaments and microplasmas: physics, chemistry and diagnostics. *Journal of Physics D-Applied Physics* 2013, *46* (46).

6	**Borcia, G.; Cazan, R.; Borcia, C., DBD Surface Modification of Polymers in Relation to the Spatial Distribution of Reactive Oxygen Species. *Plasma Chemistry and Plasma Processing* 2011, *31* (5), 729-740.**
1	Tay, W. H.; Kausik, S. S.; Yap, S. L.; Wong, C. S., Role of secondary emission on discharge dynamics in an atmospheric pressure dielectric barrier discharge. *Physics of Plasmas* 2014, *21* (4).
2	Steinmueller, S. O.; Rohnke, M.; Janek, J., Low pressure oxygen direct current discharges with ion conducting yttria stabilized zirconia electrodes. *Solid State Ionics* 2013, *245* , 24-32.

7	**Borcia, C.; Borcia, G.; Dumitrascu, N., SURFACE TREATMENT OF POLYMERS BY PLASMA AND UV RADIATION. *Romanian Journal of Physics* 2011, *56* (1-2), 224-232.**
1	Lin, L.; Wang, Q., Microplasma: A New Generation of Technology for Functional Nanomaterial Synthesis. *Plasma Chemistry and Plasma Processing* 2015, *35* (6), 925-962.
2	dos Santos, R. P.; de Oliveira Junior, M. S.; Mattos, E. d. C.; Diniz, M. F.; Lazzarini Dutra, R. d. C., FT-IR Techniques (PAS, UATR and Objective ATR) Applied to the Characterization of Plasma-Modified Surface of EPDM. Polimeros-Ciencia E Tecnologia 2014, 24 (3), 411-416.
3	Prasher, S.; Kumar, M.; Singh, S., Electrical and Optical Properties of O6+ Ion Beam-Irradiated Polymers. *International Journal of Polymer Analysis and Characterization* 2014, *19* (3), 204-211.
4	Jaganathan, S. K.; Mohandas, H.; Sivakumar, G.; Kasi, P.; Sudheer, T.; Veetil, S. A.; Murugesan, S.; Supriyanto, E., Enhanced Blood Compatibility of Metallocene Polyethylene Subjected to Hydrochloric Acid Treatment for Cardiovascular Implants. Biomed Research International 2014.
5	Stankov, M. N.; Petkovic, M. D.; Markovic, V. L. J.; Stamenkovic, S. N.; Jovanovic, A. P., NUMERICAL MODELLING OF DC ARGON GLOW DISCHARGE AT LOW PRESSURE WITHOUT AND WITH Ar (P-3(2)) METASTABLE STATE. *Romanian Journal of Physics* 2014, *59* (3-4), 328-338.

6	Mohandas, H.; Sivakumar, G.; Kasi, P.; Jaganathan, S. K.; Supriyanto, E., Microwave-Assisted Surface Modification of Metallocene Polyethylene for Improving Blood Compatibility. *Biomed Research International* 2013.
7	Simon, A.; Dinu, O. E.; Papiu, M. A.; Tudoran, C. D.; Anghel, S. D., AGEING BEHAVIOR OF He DBD TREATED GLASS SURFACE. *Romanian Journal of Physics* 2012, *57* (9-10), 1367-1374.
8	Gu, H.; Zhang, J.; Faucher, S.; Zhu, S., Novel Polymeric Surfadditives Synthesized via Atom Transfer Radical Polymerization and Their Surface Migration Properties. *Macromolecular Reaction Engineering* 2011, *5* (9-10), 443-452.

8	**Borcia, C.; Borcia, G.; Dumitrascu, N., Atmospheric-Pressure Dielectric Barrier Discharge for Surface Processing of Polymer Films and Fibers. *Ieee Transactions on Plasma Science* 2009, *37* (6), 941-945.**
1	Kuroki, T.; Nakayama, K.; Nakamura, D.; Onji, T.; Okubo, M., Nonthermal Plasma Hybrid Process for Preparation of Organic Electroluminescence Fluoropolymer Film Devices. *Ieee Transactions on Industry Applications* 2015, *51* (3), 2497-2503.
2	Kuroki, T.; Tahara, M.; Kuwahara, T.; Okubo, M., Microfabrication and Metal Plating Technologies on Polytetrafluoroethylene Film Surface Treated by Atmospheric-Pressure Nonthermal-Plasma Graft Polymerization Process. Ieee Transactions on Industry Applications 2014, 50 (1), 45-50.
3	Bashir, M.; Rees, J. M.; Zimmerman, W. B., Plasma polymerization in a microcapillary using an atmospheric pressure dielectric barrier discharge. *Surface & Coatings Technology* 2013, *234* , 82-91.
4	Mello, C. B.; Kostov, K. G.; Machida, M.; de Oliveira Hein, L. R. O.; de Campos, K. A., Surface Modification of Polycarbonate by Atmospheric-Pressure Plasma Jets. *Ieee Transactions on Plasma Science* 2012, *40* (11), 2800-2805.
5	Osawa, N.; Yoshioka, Y.; Hanaoka, R.; Mochizuki, Y.; Kobayashi, Y.; Yamada, Y., Generation of Uniform Discharge by Dielectric Barrier Discharge Device in Atmospheric-pressure Air. *Electrical Engineering in Japan* 2012, *180* (4), 1-9.
6	Fang, Z.; Liu, Y.; Liu, K.; Shao, T.; Zhang, C., Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma. *Vacuum* 2012, *86* (9), 1305-1312.
7	Shao, X.-J.; Zhang, G.-J.; Zhan, J.-Y.; Xu, G.-M., Research on Surface Modification of Polytetrafluoroethylene Coupled With Argon Dielectric Barrier Discharge Plasma Jet Characteristics. *Ieee Transactions on Plasma Science* 2011, *39* (11), 3095-3102.

9	**Dumitrascu, N.; Borcia, C.; Borcia, G., Control of the Blood-Polymer Interface by Plasma Treatment. *Journal of Biomedical Materials Research Part B-Applied Biomaterials* 2008, *87B* (2), 364-373.**

1	Modic, M.; Junkar, I.; Stana-Kleinschek, K.; Kostanjsek, R.; Mozetic, M., Morphology Transformations of Platelets on Plasma Activated Surfaces. *Plasma Processes and Polymers* 2014, *11* (6), 596-605.
2	Lopez-Santos, C.; Fernandez-Gutierrez, M.; Yubero, F.; Vazquez-Lasa, B.; Cotrino, J.; Gonzalez-Elipe, A.; San Roman, J., Effects of plasma surface treatments of diamond-like carbon and polymeric substrata on the cellular behavior of human fibroblasts. Journal of Biomaterials Applications 2013, 27 (6), 669-683.
3	Seo, E. D., Surface Modified Porous Substrate by Plasma Immobilization of Allyl Alcohol for Drug Delivery. *Macromolecular Research* 2010, *18* (11), 1121-1124.
4	Seeliger, E.; Becker, K.; Ladwig, M.; Wronski, T.; Persson, P. B.; Flemming, B., Up to 50-fold Increase in Urine Viscosity with Iso-osmolar Contrast Media in the Rat. *Radiology* 2010, *256* (2), 406-414.
5	Sarra-Bournet, C.; Ayotte, G.; Turgeon, S.; Massines, F.; Laroche, G., Effects of Chemical Composition and the Addition of H-2 in a N-2 Atmospheric Pressure Dielectric Barrier Discharge on Polymer Surface Functionalization. Langmuir 2009, 25 (16), 9432-9440.

10	**Cazan, R.; Borcia, G.; Chiper, A.; Popa, G., Time-space resolved distribution of oxygen metastable atoms in an axially symmetrical atmospheric pressure barrier discharge. *Plasma Sources Science & Technology* 2008, *17* (3).**
1	Buda, I. G.; Irimiea, C.; Agheorghiesei, C.; Chiper, A. S., Pulsed Atmospheric-Pressure DBD Plasma Produced in Small-Diameter Tubes. *Ieee Transactions on Plasma Science* 2015, *43* (2), 572-579.
2	Adamek, P.; Olejnicek, J.; Cada, M.; Kment, S.; Hubicka, Z., Time-resolved tunable diode laser absorption spectroscopy of pulsed plasma. *Optics Letters* 2013, *38* (14), 2428-2430.
3	Vitelaru, C.; Lundin, D.; Stancu, G. D.; Brenning, N.; Bretagne, J.; Minea, T., Argon metastables in HiPIMS: time-resolved tunable diode-laser diagnostics. *Plasma Sources Science & Technology* 2012, *21* (2).
4	Nastuta, A. V.; Topala, I.; Grigoras, C.; Pohoata, V.; Popa, G., Stimulation of wound healing by helium atmospheric pressure plasma treatment. *Journal of Physics D-Applied Physics* 2011, *44* (10).
5	Vitelaru, C.; de Poucques, L.; Minea, T. M.; Popa, G., Time resolved metal line profile by near-ultraviolet tunable diode laser absorption spectroscopy. *Journal of Applied Physics* 2011, *109* (5).

11	**Borcia, C.; Borcia, G.; Dumitrascu, N., Relating plasma surface modification to polymer characteristics. *Applied Physics A-Materials Science & Processing* 2008, *90* (3), 507-515.**

1	Jorda-Vilaplana, A.; Sanchez-Nacher, L.; Garcia-Sanoguera, D.; Carbonell, A.; Ferri, J. M., Effects of aging on the adhesive properties of poly(lactic acid) by atmospheric air plasma treatment. *Journal of Applied Polymer Science* 2016, *133* (11).
2	Schaefer, J.; Hofmann, T.; Holtmannspoetter, J.; Frauenhofer, M.; von Czarnecki, J.; Gudladt, H.-J., Atmospheric-pressure plasma treatment of polyamide 6 composites for bonding with polyurethane. Journal of Adhesion Science and Technology 2015, 29 (17), 1807-1819.
3	Reis, R.; Dumee, L. F.; He, L.; She, F.; Orbell, J. D.; Winther-Jensen, B.; Duke, M. C., Amine Enrichment of Thin-Film Composite Membranes via Low Pressure Plasma Polymerization for Antimicrobial Adhesion. Acs Applied Materials & Interfaces 2015, 7 (27), 14644-14653.
4	Novak, I.; Popelka, A.; Valentin, M.; Chodak, I.; Spirkova, M.; Toth, A.; Kleinova, A.; Sedliacik, J.; Lehocky, M.; Maronek, M., Surface Behavior of Polyamide 6 Modified by Barrier Plasma in Oxygen and Nitrogen. International Journal of Polymer Analysis and Characterization 2014, 19 (1), 31-38.
5	Fombuena, V.; Balart, J.; Boronat, T.; Sanchez-Nacher, L.; Garcia-Sanoguera, D., Improving mechanical performance of thermoplastic adhesion joints by atmospheric plasma. *Materials & Design* 2013, *47* , 49-56.
6	Espana, J. M.; Boronat, T.; Garcia-Sanoguera, D.; Lopez, J.; Balart, R., Use of atmospheric plasma treatment to improve adhesion properties of sodium ionomer sheets. *Surface & Coatings Technology* 2013, *218* , 1-6.
7	Kaczmarek, H.; Nowicki, M.; Vukovic-Kwiatkowska, I.; Nowakowska, S., Crosslinked blends of poly(lactic acid) and polyacrylates: AFM, DSC and XRD studies. *Journal of Polymer Research* 2013, *20* (3).
8	Mocanu, V.; Stoica, A.; Kelar, L.; Franta, D.; Bursikova, V.; Miksova, R.; Perina, V., MULTIFUNCTIONAL TRANSPARENT PROTECTIVE COATINGS ON POLYCARBONATES PREPARED USING PECVD. *Chemicke Listy* 2012, *106* , S1460-S1464.
9	Zhang, S.; Awaja, F.; James, N.; McKenzie, D. R.; Ruys, A. J., A comparison of the strength of autohesion of plasma treated amorphous and semi-crystalline PEEK films. *Polymers for Advanced Technologies* 2011, *22* (12), 2496-2502.
10	Zenkiewicz, M.; Rytlewski, P.; Malinowski, R., LOW-TEMPERATURE PLASMA MODIFICATION OF POLYMERS - METHODS AND EQUIPMENT. *Polimery* 2011, *56* (3), 185-195.
11	Raslan, W. M.; El-Khatib, E. M.; El-Halwagy, A. A.; Ghalab, S., Low Temperature Plasma/Metal Salts Treatments for Improving Some Properties of Polyamide 6 Fibers. *Journal of Industrial Textiles* 2011, *40* (3), 246-260.
12	Wang, X.; Tian, Y.; Wang, Z.; Tao, Y., A Novel Hydrophilic Modification of PTFE Membranes Using In Situ Deposited PANI. *Journal of Macromolecular Science Part B-Physics* 2011, *50* (1), 172-178.
13	Kowalonek, J.; Kaczmarek, H.; Dabrowska, A., Air plasma or UV-irradiation applied to surface modification of pectin/poly(vinyl alcohol) blends. *Applied Surface Science* 2010, *257* (1), 325-331.
14	Gonzalez, E., II; Barankin, M. D.; Guschl, P. C.; Hicks, R. F., Surface Activation of Poly(methyl methacrylate) via Remote Atmospheric Pressure Plasma. *Plasma Processes and Polymers* 2010, *7* (6), 482-493.

15	Chen, T.-H.; Liu, C.-H.; Teng, J.-t.; Su, C.-H.; Huang, C.; Sheu, H.-L.; Lin, S., Atmospheric-pressure spin plasma jets processing of polymethylmethacrylate surface using experimental design methodology. Surface and Interface Analysis 2009, 41 (11), 886-892.

12	**Rusu, I. A.; Borcia, G.; Sayed, S. O.; Sullivan, J. L., Polymer surfaces treated by argon rf plasma. *Journal of Optoelectronics and Advanced Materials* 2008, *10* (3), 668-671.**
1	Pelagade, S. M.; Singh, N. L.; Qureshi, A.; Rane, R. S.; Mukherjee, S.; Deshpande, U. P.; Ganesan, V.; Shripathi, T., Investigation of surface properties of Ar-plasma treated polyethylene terephthalate (PET) films. Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms 2012, 289, 34-38.

13	**Borcia, C.; Borcia, G.; Dumitrascu, N., Plasma induced surface modification in relation to polymer characteristics. *Journal of Optoelectronics and Advanced Materials* 2008, *10* (3), 675-679.**
1	Jorda-Vilaplana, A.; Sanchez-Nacher, L.; Garcia-Sanoguera, D.; Carbonell, A.; Ferri, J. M., Effects of aging on the adhesive properties of poly(lactic acid) by atmospheric air plasma treatment. *Journal of Applied Polymer Science* 2016, *133* (11).
2	Fombuena, V.; Balart, J.; Boronat, T.; Sanchez-Nacher, L.; Garcia-Sanoguera, D., Improving mechanical performance of thermoplastic adhesion joints by atmospheric plasma. *Materials & Design* 2013, *47* , 49-56.
3	Espana, J. M.; Boronat, T.; Garcia-Sanoguera, D.; Lopez, J.; Balart, R., Use of atmospheric plasma treatment to improve adhesion properties of sodium ionomer sheets. *Surface & Coatings Technology* 2013, *218* , 1-6.
4	Chantiwas, R.; Park, S.; Soper, S. A.; Kim, B. C.; Takayama, S.; Sunkara, V.; Hwang, H.; Cho, Y.-K., Flexible fabrication and applications of polymer nanochannels and nanoslits. *Chemical Society Reviews* 2011, *40* (7), 3677-3702.

14	**Borcia, G.; Brown, N. M. D., Hydrophobic coatings on selected polymers in an atmospheric pressure dielectric barrier discharge. *Journal of Physics D-Applied Physics* 2007, *40* (7), 1927-1936.**
1	Jorda-Vilaplana, A.; Sanchez-Nacher, L.; Garcia-Sanoguera, D.; Carbonell, A.; Ferri, J. M., Effects of aging on the adhesive properties of poly(lactic acid) by atmospheric air plasma treatment. *Journal of Applied Polymer Science* 2016, *133* (11).
2	Al-Abduly, A.; Christensen, P., An in situ and downstream study of non-thermal plasma chemistry in an air fed dielectric barrier discharge (DBD). *Plasma Sources Science & Technology* 2015, *24* (6).

3	Birer, O., Reactivity zones around an atmospheric pressure plasma jet. *Applied Surface Science* 2015, *354* , 420-428.
4	Sainz-Garcia, E.; Alba-Elias, F.; Mugica-Vidal, R.; Gonzalez-Marcos, A., Enhanced surface friction coefficient and hydrophobicity of TPE substrates using an APPJ system. *Applied Surface Science* 2015, *328* , 554-567.
5	Mugica-Vidal, R.; Alba-Elias, F.; Sainz-Garcia, E.; Ordieres-Mere, J., Atmospheric plasma-polymerization of hydrophobic and wear-resistant coatings on glass substrates. *Surface & Coatings Technology* 2014, *259* , 374-385.
6	Zhang, C.; Zhou, Y.; Shao, T.; Xie, Q.; Xu, J.; Yang, W., Hydrophobic treatment on polymethylmethacrylate surface by nanosecond-pulse DBDs in CF4 at atmospheric pressure. *Applied Surface Science* 2014, *311* , 468-477.
7	Yim, J. H.; Rodriguez-Santiago, V.; Williams, A. A.; Gougousi, T.; Pappas, D. D.; Hirvonen, J. K., Atmospheric pressure plasma enhanced chemical vapor deposition of hydrophobic coatings using fluorine-based liquid precursors. Surface & Coatings Technology 2013, 234, 21-32.
8	Choi, Y. S.; Lee, J. S.; Jin, S. B.; Han, J. G., Super-hydrophobic coatings with nano-size roughness prepared with simple PECVD method. *Journal of Physics D-Applied Physics* 2013, *46* (31).
9	Jacobs, T.; Declercq, H.; De Geyter, N.; Cornelissen, R.; Dubruel, P.; Leys, C.; Beaurain, A.; Payen, E.; Morent, R., Enhanced cell-material interactions on medium-pressure plasma-treated polyhydroxybutyrate/polyhydroxyvalerate. Journal of Biomedical Materials Research Part A 2013, 101 (6), 1778-1786.
10	Jacobs, T.; Declercq, H.; De Geyter, N.; Cornelissen, R.; Dubruel, P.; Leys, C.; Beaurain, A.; Payen, E.; Morent, R., Plasma surface modification of polylactic acid to promote interaction with fibroblasts. Journal of Materials Science-Materials in Medicine 2013, 24 (2), 469-478.
11	De Geyter, N.; Sarani, A.; Jacobs, T.; Nikiforov, A. Y.; Desmet, T.; Dubruel, P., Surface Modification of Poly-epsilon-Caprolactone with an Atmospheric Pressure Plasma Jet. *Plasma Chemistry and Plasma Processing* 2013, *33* (1), 165-175.
12	Da Ponte, G.; Sardella, E.; Fanelli, F.; d'Agostino, R.; Gristina, R.; Favia, P., Plasma Deposition of PEO-Like Coatings with Aerosol-Assisted Dielectric Barrier Discharges. *Plasma Processes and Polymers* 2012, *9* (11-12), 1176-1183.
13	Jia, C.; Chen, P.; Wang, Q.; Li, B.; Chen, M., Wetting and adhesion behavior of armos fibers after dielectric barrier discharge plasma treatment. *Journal of Applied Polymer Science* 2012, *125* (1), 433-438.
14	Jacobs, T.; Morent, R.; De Geyter, N.; Desmet, T.; Van Vlierberghe, S.; Dubruel, P.; Leys, C., The Effect of Medium Pressure Plasma Treatment on Thin Poly-epsilon Caprolactone Layers. *Journal of Adhesion Science and Technology* 2012, *26* (18-19), 2239-2249.
15	Quade, A.; Schroeder, K.; Ohl, A.; Weltmann, K.-D., Plasma Deposition of Nanoscale Difluoromethylene Dominated Surfaces. *Plasma Processes and Polymers* 2011, *8* (12), 1165-1173.
16	Da Ponte, G.; Sardella, E.; Fanelli, F.; d'Agostino, R.; Favia, P., Trends in surface engineering of biomaterials: atmospheric pressure plasma deposition of coatings for biomedical applications. *European Physical Journal-Applied Physics* 2011, *56* (2).

17	De Geyter, N.; Morent, R.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Schacht, E., Plasma polymerisation of siloxanes at atmospheric pressure. *Surface Engineering* 2011, *27* (8), 627-633.
18	Da Ponte, G.; Sardella, E.; Fanelli, F.; Van Hoeck, A.; d'Agostino, R.; Paulussen, S.; Favia, P., Atmospheric pressure plasma deposition of organic films of biomedical interest. *Surface & Coatings Technology* 2011, *205* , S525-S528.
19	Jacobs, T.; De Geyter, N.; Morent, R.; Desmet, T.; Dubruel, P.; Leys, C., Plasma treatment of polycaprolactone at medium pressure. *Surface & Coatings Technology* 2011, *205* , S543-S547.
20	Choudhury, A. J.; Barve, S. A.; Chutia, J.; Pal, A. R.; Chowdhury, D.; Kishore, R.; Jagannath; Mithal, N.; Pandey, M.; Patil, D. S., Investigations of the hydrophobic and scratch resistance behavior of polystyrene films deposited on bell metal using RF-PACVD process. Applied Surface Science 2011, 257 (9), 4211-4218.
21	Jacobs, T.; Morent, R.; De Geyter, N.; Desmet, T.; Dubruel, P.; Leys, C., Effect of humid air exposure between successive helium plasma treatments on PET foils. *Surface & Coatings Technology* 2010, *205* (7), 2256-2261.
22	Vogelsang, A.; Ohl, A.; Foest, R.; Schroeder, K.; Weltmann, K.-D., Hydrophobic coatings deposited with an atmospheric pressure microplasma jet. *Journal of Physics D-Applied Physics* 2010, *43* (48).
23	Michel, M.; Bour, J.; Petersen, J.; Arnoult, C.; Ettingshausen, F.; Roth, C.; Ruch, D., Atmospheric Plasma Deposition: A New Pathway in the Design of Conducting Polymer-Based Anodes for Hydrogen Fuel Cells. *Fuel Cells* 2010, *10* (6), 932-937.
24	Morent, R.; De Geyter, N.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Stability study of polyacrylic acid films plasma-polymerized on polypropylene substrates at medium pressure. *Applied Surface Science* 2010, *257* (2), 372-380.
25	Morent, R.; De Geyter, N.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Influence of Discharge Atmosphere on the Ageing Behaviour of Plasma-Treated Polylactic Acid. *Plasma Chemistry and Plasma Processing* 2010, *30* (4), 525-536.
26	De Geyter, N.; Morent, R.; Desmet, T.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Plasma modification of polylactic acid in a medium pressure DBD. *Surface & Coatings Technology* 2010, *204* (20), 3272-3279.
27	Quade, A.; Polak, M.; Schroeder, K.; Ohl, A.; Weltmann, K.-D., Formation of PTFE-like films in CF4 microwave plasmas. *Thin Solid Films* 2010, *518* (17), 4835-4839.
28	Morent, R.; De Geyter, N.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Schacht, E., Organic-inorganic behaviour of HMDSO films plasma-polymerized at atmospheric pressure. *Surface & Coatings Technology* 2009, *203* (10-11), 1366-1372.
29	De Geyter, N.; Morent, R.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Gengembre, L.; Schacht, E.; Payen, E., Deposition of polymethyl methacrylate on polypropylene substrates using an atmospheric pressure dielectric barrier discharge. Progress in Organic Coatings 2009, 64 (2-3), 230-237.
30	Morent, R.; De Geyter, N.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Gengembre, L.; Schacht, E.; Payen, E., Deposition of HMDSO-based coatings on PET substrates using an atmospheric pressure dielectric barrier discharge. Progress in Organic Coatings 2009, 64 (2-3), 304-310.

21	De Geyter, N.; Morent, R.; Jacobs, T.; Axisa, F.; Gengembre, L.; Leys, C.; Vanfleteren, J.; Payen, E., Remote Atmospheric Pressure DC Glow Discharge Treatment for Adhesion Improvement of PDMS. *Plasma Processes and Polymers* 2009, *6* , S406-S411.
32	Morent, R.; De Geyter, N.; Jacobs, T.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Schacht, E., Plasma-Polymerization of HMDSO Using an Atmospheric Pressure Dielectric Barrier Discharge. *Plasma Processes and Polymers* 2009, *6* , S537-S542.
33	Solis-Fernandez, P.; Paredes, J. I.; Martinez-Alonso, A.; Tascon, J. M. D., New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. *Carbon* 2008, *46* (10), 1364-1367.

15	**Borcia, G.; Anderson, C. A.; Brown, N. M. D., Surface treatment of natural and synthetic textiles using a dielectric barrier discharge. *Surface & Coatings Technology* 2006, *201* (6), 3074-3081.**
1	Zanini, S.; Freti, S.; Citterio, A.; Riccardi, C., Characterization of hydro- and oleo-repellent pure cashmere and wool/nylon textiles obtained by atmospheric pressure plasma pre-treatment and coating with a fluorocarbon resin. Surface & Coatings Technology 2016, 292, 155-160.
2	Erdogan, U. H.; Seki, Y.; Aydogdu, G.; Kutlu, B.; Aksit, A., Effect of Different Surface Treatments on the Properties of Jute. *Journal of Natural Fibers* 2016, *13* (2), 158-171.
3	Jia, C.; Chen, P.; Wang, Q.; Wang, J.; Xiong, X.; Ma, K., The Effect of Atmospheric-Pressure Air Plasma Discharge Power on Adhesive Properties of Aramid Fibers. *Polymer Composites* 2016, *37* (2), 620-626.
4	Kan, C.-W.; Lam, Y. L.; Li, M. Y., The effect of plasma treatment on the dyeing properties of silk fabric. *Coloration Technology* 2016, *132* (1), 9-16.
5	Wang, C. X.; Lv, J. C.; Ren, Y.; Zhi, T.; Chen, J. Y.; Zhou, Q. Q.; Lu, Z. Q.; Gao, D. W.; Jin, L. M., Surface modification of polyester fabric with plasma pretreatment and carbon nanotube coating for antistatic property improvement. Applied Surface Science 2015, 359, 196-203.
6	Ahmed, H. M.; Rashed, U. M., Enhancing Ink Jet Printability & Antibacterial Properties of Polyamide 6 Fabric Using DBD Plasma. *Journal of Polymer Materials* 2015, *32* (4), 373-384.
7	Zanini, S.; Grimoldi, E.; Citterio, A.; Riccardi, C., Characterization of atmospheric pressure plasma treated pure cashmere and wool/cashmere textiles: Treatment in air/water vapor mixture. *Applied Surface Science* 2015, *349* , 235-240.
8	Kan, C.-w.; Lam, Y.-l., The effect of plasma treatment on water absorption properties of silk fabrics. *Fibers and Polymers* 2015, *16* (8), 1705-1714.
9	Gupta, D.; Chaudhary, H.; Gupta, C., Topographical changes in polyester after chemical, physical and enzymatic hydrolysis. *Journal of the Textile Institute* 2015, *106* (7), 690-698.

10	Zille, A.; Oliveira, F. R.; Souto, A. P., Plasma Treatment in Textile Industry. *Plasma Processes and Polymers* 2015, *12* (2), 98-131.
11	Tsai, C.-Y.; Wei, T.-C.; Chen, K.-S.; Juang, R.-S.; Huang, C., Tailoring Surface Properties of Nonwoven Polypropylene by Cyclonic Atmospheric Pressure Plasma. *Ieee Transactions on Plasma Science* 2014, *42* (12), 3668-3673.
12	Haji, A.; Rahbar, R. S.; Shoushtari, A. M., Improved microwave shielding behavior of carbon nanotube-coated PET fabric using plasma technology. *Applied Surface Science* 2014, *311* , 593-601.
13	Oliveira, F. R.; Zille, A.; Souto, A. P., Dyeing mechanism and optimization of polyamide 6,6 functionalized with double barrier discharge (DBD) plasma in air. *Applied Surface Science* 2014, *293* , 177-186.
14	Novak, I.; Popelka, A.; Valentin, M.; Chodak, I.; Spirkova, M.; Toth, A.; Kleinova, A.; Sedliacik, J.; Lehocky, M.; Maronek, M., Surface Behavior of Polyamide 6 Modified by Barrier Plasma in Oxygen and Nitrogen. International Journal of Polymer Analysis and Characterization 2014, 19 (1), 31-38.
15	Sun, S.; Yu, H.; Williams, T.; Hicks, R. F.; Qiu, Y., Eco-friendly sizing technology of cotton yarns with He/O-2 atmospheric pressure plasma treatment and green sizing recipes. *Textile Research Journal* 2013, *83* (20), 2177-2190.
16	El-Ola, S. M. A.; Moharam, M. E.; El-Bendarya, M. A., Optimum conditions for surface modification of PET by lipase enzymes produced by Egyptian bacilli in comparison with standard one. *Indian Journal of Fibre & Textile Research* 2013, *38* (2), 165-172.
17	Karthik, T.; Murugan, R.; Vijayan, M., Optimization of plasma treatment variables to improve the hydrophilicity of polylinen((R)) fabrics. *Journal of the Textile Institute* 2013, *104* (5), 481-493.
18	Nguyen Khanh, V.; Zille, A.; Oliveira, F. R.; Carneiro, N.; Souto, A. P., Effect of Particle Size on Silver Nanoparticle Deposition onto Dielectric Barrier Discharge (DBD) Plasma Functionalized Polyamide Fabric. Plasma Processes and Polymers 2013, 10 (3), 285-296.
19	Samanta, K. K.; Joshi, A. G.; Jassal, M.; Agrawal, A. K., Study of hydrophobic finishing of cellulosic substrate using He/1,3-butadiene plasma at atmospheric pressure. *Surface & Coatings Technology* 2012, *213* , 65-76.
20	Lopez, R.; Pascual, M.; Garcia-Sanoguera, D.; Sanchez-Nacher, L.; Balart, R., Improvement of Liquid Absorption Properties of Nonwoven Polypropylene Substrates by Low Pressure Plasma Treatment with CH4-O-2 Mixture Gas. Fibers and Polymers 2012, 13 (9), 1139-1144.
21	Jelil, R. A.; Zeng, X.; Koehl, L.; Perwuelz, A., Most relevant parameters of woven fabric structure controlling atmospheric air-plasma treatments. *Textile Research Journal* 2012, *82* (18), 1859-1869.
22	Kale, K. H.; Palaskar, S. S.; Kasliwal, P. M., A novel approach for functionalization of polyester and cotton textiles with continuous online deposition of plasma polymers. *Indian Journal of Fibre & Textile Research* 2012, *37* (3), 238-244.
23	Zhang, W.; Johnson, L.; Silva, S. R. P.; Lei, M. K., The effect of plasma modification on the sheet resistance of nylon fabrics coated with carbon nanotubes. *Applied Surface Science* 2012, *258* (20), 8209-8213.
24	Li, G.; Liu, H.; Li, T.; Wang, J., Surface modification and functionalization of silk fibroin fibers/fabric toward high performance applications. *Materials Science & Engineering C-Materials for Biological Applications* 2012, *32* (4), 627-636.

25	Bachurova, M.; Wiener, J., Contact angle hysteresis on plasma treated polyethylene terephthalate. *E-Polymers* 2012.
26	Oliveira, F. R.; Erkens, L.; Fangueiro, R.; Souto, A. P., Surface Modification of Banana Fibers by DBD Plasma Treatment. *Plasma Chemistry and Plasma Processing* 2012, *32* (2), 259-273.
27	Orhan, M.; Kut, D.; Gunesoglu, C., Improving the Antibacterial Property of Polyethylene Terephthalate by Cold Plasma Treatment. *Plasma Chemistry and Plasma Processing* 2012, *32* (2), 293-304.
28	Zhang, X.; Chen, P.; Kang, X.; Chen, M.; Wang, Q., Improvement of the interfacial adhesion between PBO fibers and PPESK matrices using plasma-induced coating. *Journal of Applied Polymer Science* 2012, *123* (5), 2945-2951.
29	Majumdar, A.; Das, S. C.; Shripathi, T.; Hippler, R., Ultra low-k property of hydrogenated carbon nitride: Chemical evaluation. *Chemical Physics Letters* 2012, *524* , 62-67.
30	Jia, C.; Chen, P.; Wang, Q.; Li, B.; Chen, M., Surface wettability of atmospheric dielectric barrier discharge processed Armos fibers. *Applied Surface Science* 2011, *258* (1), 388-393.
31	Sever, K.; Erden, S.; Gulec, H. A.; Seki, Y.; Sarikanat, M., Oxygen plasma treatments of jute fibers in improving the mechanical properties of jute/HDPE composites. *Materials Chemistry and Physics* 2011, *129* (1-2), 275-280.
32	Kale, K. H.; Desai, A. N., Atmospheric pressure plasma treatment of textiles using non-polymerising gases. *Indian Journal of Fibre & Textile Research* 2011, *36* (3), 289-299.
33	Siskova, K.; Safarova, K.; Seo, J. H.; Zboril, R.; Mashlan, M., Non-chemical approach toward 2D self-assemblies of Ag nanoparticles via cold plasma treatment of substrates. *Nanotechnology* 2011, *22* (27).
34	Bessada, R.; Silva, G.; Paiva, M. C.; Machado, A. V., Functionalization of PET and PA6.6 woven fabrics. *Applied Surface Science* 2011, *257* (18), 7944-7951.
35	Kale, K.; Palaskar, S.; Hauser, P. J.; El-Shafei, A., Atmospheric pressure glow discharge of helium-oxygen plasma treatment on polyester/cotton blended fabric. *Indian Journal of Fibre & Textile Research* 2011, *36* (2), 137-144.
36	Zhang, C. M.; Fang, K. J., Influence of penetration depth of atmospheric pressure plasma processing into multiple layers of polyester fabrics on inkjet printing. *Surface Engineering* 2011, *27* (2), 139-144.
37	Pappas, D., Status and potential of atmospheric plasma processing of materials. *Journal of Vacuum Science & Technology A* 2011, *29* (2).
38	Jia, C.; Chen, P.; Liu, W.; Li, B.; Wang, Q., Surface treatment of aramid fiber by air dielectric barrier discharge plasma at atmospheric pressure. *Applied Surface Science* 2011, *257* (9), 4165-4170.
39	Horrocks, A. R.; Nazare, S.; Masood, R.; Kandola, B.; Price, D., Surface modification of fabrics for improved flash-fire resistance using atmospheric pressure plasma in the presence of a functionalized clay and polysiloxane. Polymers for Advanced Technologies 2011, 22 (1), 22-29.

40	Labay, C.; Canal, C.; Garcia-Celma, M. J., Influence of Corona Plasma Treatment on Polypropylene and Polyamide 6.6 on the Release of a Model Drug. *Plasma Chemistry and Plasma Processing* 2010, *30* (6), 885-896.
41	Wang, K.; Wang, W.; Yang, D.; Huo, Y.; Wang, D., Surface modification of polypropylene non-woven fabric using atmospheric nitrogen dielectric barrier discharge plasma. *Applied Surface Science* 2010, *256* (22), 6859-6864.
42	Jia, C.; Chen, P.; Li, B.; Wang, Q.; Lu, C.; Yu, Q., Effects of Twaron fiber surface treatment by air dielectric barrier discharge plasma on the interfacial adhesion in fiber reinforced composites. Surface & Coatings Technology 2010, 204 (21-22), 3668-3675.
43	Brzezinski, S.; Tracz, A.; Polowinski, S.; Kowalczyk, D., Effect of Corona Discharge on the Morphology of Polyester Fiber Top Layer. *Journal of Applied Polymer Science* 2010, *116* (6), 3659-3667.
44	Samanta, K. K.; Jassal, M.; Agrawal, A. K., Antistatic Effect of Atmospheric Pressure Glow Discharge Cold Plasma Treatment on Textile Substrates. *Fibers and Polymers* 2010, *11* (3), 431-437.
45	Wang, C.; Wang, C., Surface Pretreatment of Polyester Fabric for Ink Jet Printing with Radio Frequency O-2 Plasma. *Fibers and Polymers* 2010, *11* (2), 223-228.
46	Bonandini, L.; Barbero, N.; Costabello, K.; Pavan, C.; Parisi, F.; Viscardi, G., Roll-to-Roll Atmospheric Plasma Treatment: A Green and Efficient Process to Improve the Hydrophilicity of a PET Surface. *Chemsuschem* 2010, *3* (5), 591-596.
47	Rogojanu, A.; Rusu, E.; Dorohoi, D. O., Characterization of Structural Modifications Induced on Poly(Vinyl Alcohol) Surface by Atmospheric Pressure Plasma. *International Journal of Polymer Analysis and Characterization* 2010, *15* (4), 210-221.
48	Chen, G.; Zhou, M.; Chen, S.; Chen, W., The different effects of oxygen and air DBD plasma byproducts on the degradation of methyl violet 5BN. *Journal of Hazardous Materials* 2009, *172* (2-3), 786-791.
49	Brzezinski, S.; Polowinski, S.; Kowalczyk, D.; Karbownik, I.; Malinowska, G., Effect of the Corona Discharge Treatment of Polyester Fabrics on their Adhesive Properties. *Fibres & Textiles in Eastern Europe* 2009, *17* (4), 98-102.
50	Peng, S.; Gao, Z.; Sun, J.; Yao, L.; Qiu, Y., Influence of argon/oxygen atmospheric dielectric barrier discharge treatment on desizing and scouring of poly (vinyl alcohol) on cotton fabrics. *Applied Surface Science* 2009, *255* (23), 9458-9462.
51	Fang, K.; Zhang, C., Surface physical-morphological and chemical changes leading to performance enhancement of atmospheric pressure plasma treated polyester fabrics for inkjet printing. *Applied Surface Science* 2009, *255* (17), 7561-7567.
52	Panousis, E.; Merbahi, N.; Clement, F.; Yousfi, M.; Loiseau, J. F.; Eichwald, O.; Held, B., Analysis of Dielectric Barrier Discharges under Unipolar and Bipolar Pulsed Excitation. Ieee Transactions on Dielectrics and Electrical Insulation 2009, 16 (3), 734-741.
53	Panousis, E.; Merbahi, N.; Clement, F.; Ricard, A.; Yousfi, M.; Papageorghiou, L.; Loiseau, J.-F.; Eichwald, O.; Held, B.; Spyrou, N., Atmospheric Pressure Dielectric Barrier Discharges Under Unipolar and Bipolar HV Excitation in View of Chemical Reactivity in Afterglow Conditions. Ieee Transactions on Plasma Science 2009, 37 (6), 1004-1015.

54	Majumdar, A.; Bhattacharayya, S. R.; Hippler, R., Rapid thermal annealing effect on amorphous hydrocarbon film deposited by CH4/Ar dielectric barrier discharge plasma on Si wafer: Surface morphology and chemical evaluation. Journal of Applied Physics 2009, 105 (9).
55	Zhang, C.; Fang, K., Surface modification of polyester fabrics for inkjet printing with atmospheric-pressure air/Ar plasma. *Surface & Coatings Technology* 2009, *203* (14), 2058-2063.
56	Samanta, K. K.; Jassal, M.; Agrawal, A. K., Improvement in water and oil absorbency of textile substrate by atmospheric pressure cold plasma treatment. *Surface & Coatings Technology* 2009, *203* (10-11), 1336-1342.
57	Brzezinski, S.; Polowinski, S.; Kowalczyk, D.; Malinowska, G., Effect of Corona Discharge Treatment on the Surface Strength and Performance Properties of Synthetic Fibre Textiles. *Fibres & Textiles in Eastern Europe* 2009, *17* (5), 62-68.
58	Panousis, E.; Clement, F.; Merbahi, N.; Ricard, A.; Yousfi, M.; Held, B.; Loiseau, J. F.; Eichwald, O.; Gaboriau, F., SPECTROSCOPIC CHARACTERIZATION OF AN ATMOSPHERIC PRESSURE DBD AFTERGLOW UNDER UNIPOLAR AND BIPOLAR PULSED EXCITATION. High Temperature Material Processes 2009, 13 (3-4), 359-372.
59	Long, J.-J.; Wang, H.-W.; Lu, T.-Q.; Tang, R.-C.; Zhu, Y.-w., Application of Low-Pressure Plasma Pretreatment in Silk Fabric Degumming Process. *Plasma Chemistry and Plasma Processing* 2008, *28* (6), 701-713.
60	Ren, C.; Wang, D.; Wang, Y., Grafting Silane onto Silicate Glass Surface Treated by DBD in Air. *Plasma Science & Technology* 2008, *10* (5), 556-559.
61	Morent, R.; De Geyter, N.; Verschuren, J.; De Clerck, K.; Kiekens, P.; Leys, C., Non-thermal plasma treatment of textiles. *Surface & Coatings Technology* 2008, *202* (14), 3427-3449.
62	Fang, K.; Wang, S.; Wang, C.; Tian, A., Inkjet printing effects of pigment inks on silk fabrics surface-modified with O-2 plasma. *Journal of Applied Polymer Science* 2008, *107* (5), 2949-2955.
63	Majumdar, A.; Das, G.; Patel, N.; Mishra, P.; Ghose, D.; Hippler, R., Microstructural and chemical evolution of -CH3-incorporated (Low-k) SiCO(H) films prepared by dielectric barrier discharge plasma. Journal of the Electrochemical Society 2008, 155 (1), D22-D26.
64	Panousis, E.; Papageorghiou, L.; Spyrou, N.; Loiseau, J. F.; Held, B.; Clement, F., Numerical modelling of an atmospheric pressure dielectric barrier discharge in nitrogen: electrical and kinetic description. Journal of Physics D-Applied Physics 2007, 40 (14), 4168-4180.

16	**Borcia, G.; Chiper, A.; Rusu, I., Using a He+N-2 dielectric barrier discharge for the modification of polymer surface properties. *Plasma Sources Science & Technology* 2006, *15* (4), 849-857.**

1	Gangwar, R. K.; Levasseur, O.; Naude, N.; Gherardi, N.; Massines, F.; Margot, J.; Stafford, L., Determination of the electron temperature in plane-to-plane He dielectric barrier discharges at atmospheric pressure. Plasma Sources Science & Technology 2016, 25 (1).
2	Ghasemi, M.; Sohbatzadeh, F.; Mirzanejhad, S., Surface modification of Raw and Frit glazes by non-thermal helium plasma jet. *Journal of Theoretical and Applied Physics* 2015, *9* (3), 177-183.
3	Misra, N. N.; Sullivan, C.; Pankaj, S. K.; Alvarez-Jubete, L.; Cama, R.; Jacoby, F.; Cullen, P. J., Enhancement of oil spreadability of biscuit surface by nonthermal barrier discharge plasma. Innovative Food Science & Emerging Technologies 2014, 26, 456-461.
4	Heine, J.; Damm, R.; Gerhard, C.; Wieneke, S.; Vioel, W., Surface Activation of Plane and Curved Automotive Polymer Surfaces by Using a Fittable Multi-Pin DBD Plasma Source. *Plasma Science & Technology* 2014, *16* (6), 593-597.
5	Loukil, H.; Belasri, A.; Khodja, K.; Harrache, Z., Theoretical Kinetics Investigation of Xenon Dielectric Barrier Discharge for Excimer Lamp. *Ieee Transactions on Plasma Science* 2014, *42* (3), 712-720.
6	Abou Rich, S.; Leroy, P.; Dufour, T.; Wehbe, N.; Houssiau, L.; Reniers, F., In-depth diffusion of oxygen into LDPE exposed to an Ar-O-2 atmospheric post-discharge: a complementary approach between AR-XPS and Tof-SIMS techniques. Surface and Interface Analysis 2014, 46 (3), 164-174.
7	Yim, J. H.; Rodriguez-Santiago, V.; Williams, A. A.; Gougousi, T.; Pappas, D. D.; Hirvonen, J. K., Atmospheric pressure plasma enhanced chemical vapor deposition of hydrophobic coatings using fluorine-based liquid precursors. Surface & Coatings Technology 2013, 234, 21-32.
8	Dufour, T.; Hubert, J.; Vandencasteele, N.; Viville, P.; Lazzaroni, R.; Reniers, F., Competitive and synergistic effects between excimer VUV radiation and O radicals on the etching mechanisms of polyethylene and fluoropolymer surfaces treated by an atmospheric He-O-2 post-discharge. Journal of Physics D-Applied Physics 2013, 46 (31).
9	Slepicka, P.; Kasalkova, N. S.; Stranska, E.; Bacakova, L.; Svorcik, V., Surface characterization of plasma treated polymers for applications as biocompatible carriers. *Express Polymer Letters* 2013, *7* (6), 535-545.
10	Yang, Y.; Wang, W.-C.; Yang, D.-Z.; Jia, L.; Zhang, S., Experimental research of diffuse bi-directional pulsed dielectric barrier discharge plasma. *Journal of Electrostatics* 2012, *70* (4), 356-362.
11	Niu, J.; Liu, D.; Chen, J.; Ding, H.; Wu, Y., Large-area surface modification of polymers using a cold pulsed glow discharge. *European Physical Journal-Applied Physics* 2012, *57* (1).
12	Liu, D.; Niu, J.; Yu, N., Optical emission characteristics of medium- to high-pressure N-2 dielectric barrier discharge plasmas during surface modification of polymers. *Journal of Vacuum Science & Technology A* 2011, *29* (6).
13	Babaeva, N. Y.; Kushner, M. J., Ion energy and angular distributions onto polymer surfaces delivered by dielectric barrier discharge filaments in air: II. Particles. *Plasma Sources Science & Technology* 2011, *20* (3).
14	Roy, S.; Yue, C. Y., Surface Modification of COC Microfluidic Devices: A Comparative Study of Nitrogen Plasma Treatment and its Advantages Over Argon and Oxygen Plasma Treatments. *Plasma Processes and Polymers* 2011, *8* (5), 432-443.

15	Umemoto, H.; Funae, T.; Mankelevich, Y. A., Activation and Decomposition of N-2 on Heated Tungsten Filament Surfaces. *Journal of Physical Chemistry C* 2011, *115* (14), 6748-6756.
16	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Gonzalez-Elipe, A. R., Nitrogen plasma functionalization of low density polyethylene. *Surface & Coatings Technology* 2011, *205* (11), 3356-3364.
17	Hung, C. T.; Chiu, Y. M.; Hwang, F. N.; Chiang, M. H.; Wu, J. S.; Wang, Y. C., Investigation of the Atmospheric Helium Dielectric Barrier Discharge Driven by a Realistic Distorted-Sinusoidal Voltage Power Source. Plasma Chemistry and Plasma Processing 2011, 31 (1), 1-21.
18	Liang, Y.; Jensen, R. E.; Pappas, D. D.; Palmese, G. R., Toughening vinyl ester networks with polypropylene meso-fibers: Interface modification and composite properties. *Polymer* 2011, *52* (2), 510-518.
19	Shao, T.; Yu, Y.; Zhang, C.; Zhang, D.; Niu, Z.; Wang, J.; Yan, P.; Zhou, Y., Excitation of Atmospheric Pressure Uniform Dielectric Barrier Discharge Using Repetitive Unipolar Nanosecond-pulse Generator. Ieee Transactions on Dielectrics and Electrical Insulation 2010, 17 (6), 1830-1837.
20	Wang, K.; Wang, W.; Yang, D.; Huo, Y.; Wang, D., Surface modification of polypropylene non-woven fabric using atmospheric nitrogen dielectric barrier discharge plasma. *Applied Surface Science* 2010, *256* (22), 6859-6864.
21	Chiang, M.-H.; Liao, K.-C.; Lin, I. M.; Lu, C.-C.; Huang, H.-Y.; Kuo, C.-L.; Wu, J.-S., Modification of Hydrophilic Property of Polypropylene Films by a Parallel-Plate Nitrogen-Based Dielectric Barrier Discharge Jet. Ieee Transactions on Plasma Science 2010, 38 (6), 1489-1498.
22	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Gonzalez-Elipe, A. R., Surface Functionalization, Oxygen Depth Profiles, and Wetting Behavior of PET Treated with Different Nitrogen Plasmas. *Acs Applied Materials & Interfaces* 2010, *2* (4), 980-990.
23	Ito, Y.; Sakai, O.; Tachibana, K., Measurement of electron density in a microdischarge-integrated device operated in nitrogen at atmospheric pressure using a millimetre-wave transmission method. *Plasma Sources Science & Technology* 2010, *19* (2).
24	Asandulesa, M.; Topala, I.; Dumitrascu, N., Effect of helium DBD plasma treatment on the surface of wood samples. *Holzforschung* 2010, *64* (2), 223-227.
25	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Contreras, L.; Barranco, A.; Gonzalez-Elipe, A. R., Formation of Nitrogen Functional Groups on Plasma Treated DLC. *Plasma Processes and Polymers* 2009, *6* (9), 555-565.
26	Avtaeva, S. V.; Skornyakov, A. V., Effect of nonlocal electron kinetics on the characteristics of a dielectric barrier discharge in xenon. *Plasma Physics Reports* 2009, *35* (7), 593-602.
27	Li, H.; Liang, H.; He, F.; Huang, Y.; Wan, Y., Air dielectric barrier discharges plasma surface treatment of three-dimensional braided carbon fiber reinforced epoxy composites. *Surface & Coatings Technology* 2009, *203* (10-11), 1317-1321.
28	Chiper, A. S.; Cazan, R.; Popa, G., On the Secondary Discharge of an Atmospheric-Pressure Pulsed DBD in He with Impurities. *Ieee Transactions on Plasma Science* 2008, *36* (5), 2824-2830.

29	Morent, R.; De Geyter, N.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Surface treatment of a polypropylene film with a nitrogen DBD at medium pressure. *European Physical Journal-Applied Physics* 2008, *43* (3), 289-294.
30	De Geyter, N.; Morent, R.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Increasing the hydrophobicity of a PP film using a helium/CF4 DBD treatment at atmospheric pressure. Plasma Chemistry and Plasma Processing 2008, 28 (2), 289-298.
31	De Geyter, N.; Morent, R.; Leys, C.; Gengembre, L.; Payen, E.; Van Vlierberghe, S.; Schacht, E., DBD treatment of polyethylene terephthalate: Atmospheric versus medium pressure treatment. *Surface & Coatings Technology* 2008, *202* (13), 3000-3010.
32	Georgescu, N., HIGH VOLTAGE PULSED, COLD ATMOSPHERIC PLASMA JETS: ELECTRICAL CHARACTERIZATION. *Romanian Reports in Physics* 2008, *60* (4), 1025-1032.

17	**Borcia, G.; Rusu, I.; Popa, G., Surface modification of polymethylmetacrylate films using dielectric barrier discharge. *Journal of Optoelectronics and Advanced Materials* 2006, *8* (3), 1048-1052.**
1	Heine, J.; Damm, R.; Gerhard, C.; Wieneke, S.; Vioel, W., Surface Activation of Plane and Curved Automotive Polymer Surfaces by Using a Fittable Multi-Pin DBD Plasma Source. *Plasma Science & Technology* 2014, *16* (6), 593-597.
2	Mortazavi, S. H.; Ghoranneviss, M.; Pilehvar, S.; Esmaeili, S.; Zargham, S.; Hashemi, S. E.; Jodat, H., Effect of Low-Pressure Nitrogen DC Plasma Treatment on the Surface Properties of Biaxially Oriented Polypropylene, Poly (Methyl Methacrylate) and Polyvinyl Chloride Films. Plasma Science & Technology 2013, 15 (4), 362-367.
3	Fang, Z.; Liu, Y.; Liu, K.; Shao, T.; Zhang, C., Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma. *Vacuum* 2012, *86* (9), 1305-1312.
4	Chen, T.-H.; Liu, C.-H.; Teng, J.-t.; Su, C.-H.; Huang, C.; Sheu, H.-L.; Lin, S., Atmospheric-pressure spin plasma jets processing of polymethylmethacrylate surface using experimental design methodology. Surface and Interface Analysis 2009, 41 (11), 886-892.

18	**Borcia, G.; Dumitrascu, N.; Popa, G., Influence of dielectric barrier discharge treatments on the surface properties of polyamide-6 films. *Journal of Optoelectronics and Advanced Materials* 2005, *7* (5), 2535-2538.**
1	Wang, R.; Shen, Y.; Zhang, C.; Yan, P.; Shao, T., Comparison between helium and argon plasma jets on improving the hydrophilic property of PMMA surface. *Applied Surface Science* 2016, *367* , 401-406.

2	Mahmoud, K. H., Optical properties of hydroxyethyl cellulose film treated with nitrogen plasma. *Spectrochimica Acta Part a-Molecular and Biomolecular Spectroscopy* 2016, *157* , 153-157.
3	Oliveira, F. R.; Steffens, F.; Souto, A. P.; Zille, A., Reuse of effluent from dyeing process of polyamide fibers modified by double barrier discharge (DBD) plasma. *Desalination and Water Treatment* 2016, *57* (6), 2649-2656.
4	Zille, A.; Oliveira, F. R.; Souto, A. P., Plasma Treatment in Textile Industry. *Plasma Processes and Polymers* 2015, *12* (2), 98-131.
5	Oliveira, F. R.; Zille, A.; Souto, A. P., Dyeing mechanism and optimization of polyamide 6,6 functionalized with double barrier discharge (DBD) plasma in air. *Applied Surface Science* 2014, *293* , 177-186.
6	Zhang, W.; Johnson, L.; Silva, S. R. P.; Lei, M. K., The effect of plasma modification on the sheet resistance of nylon fabrics coated with carbon nanotubes. *Applied Surface Science* 2012, *258* (20), 8209-8213.
7	Liu, F.; Wang, W.-W.; Chang, X.-J.; Liang, R.-Q., Preliminary Investigation of a Dielectric Barrier Discharge Lamp in Open Air at Atmospheric Pressure. *Chinese Physics Letters* 2011, *28* (8).
8	Shao, T.; Zhang, C.; Long, K.; Zhang, D.; Wang, J.; Yan, P.; Zhou, Y., Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air. *Applied Surface Science* 2010, *256* (12), 3888-3894.

19	**Borcia, G.; Dumitrascu, N.; Popa, G., Influence of helium-dielectric barrier discharge treatments on the adhesion properties of polyamide-6 surfaces. Surface & Coatings Technology 2005, 197 (2-3), 316-321.**
1	Oliveira, F. R.; Steffens, F.; Souto, A. P.; Zille, A., Reuse of effluent from dyeing process of polyamide fibers modified by double barrier discharge (DBD) plasma. *Desalination and Water Treatment* 2016, *57* (6), 2649-2656.
2	Zille, A.; Fernandes, M. M.; Francesko, A.; Tzanov, T.; Fernandes, M.; Oliveira, F. R.; Almeida, L.; Amorim, T.; Carneiro, N.; Esteves, M. F.; Souto, A. P., Size and Aging Effects on Antimicrobial Efficiency of Silver Nanoparticles Coated on Polyamide Fabrics Activated by Atmospheric DBD Plasma. Acs Applied Materials & Interfaces 2015, 7 (25), 13731-13744.
3	Wang, W.; Liu, F.; Wang, X.; Han, H.; Huang, Y.; Liang, R., Optical and electrical characteristics of air dielectric barrier discharges in mode transition at atmospheric pressure. *Plasma Sources Science & Technology* 2015, *24* (2).
4	Hanusova, J.; Kovacik, D.; Stupavska, M.; Cernak, M.; Novak, I., Atmospheric pressure plasma treatment of polyamide-12 foils. *Open Chemistry* 2015, *13* (1), 382-388.
5	Kusano, Y., Atmospheric Pressure Plasma Processing for Polymer Adhesion: A Review. *Journal of Adhesion* 2014, *90* (9), 755-777.

6	Luo, H.; Xiong, G.; Ren, K.; Raman, S. R.; Liu, Z.; Li, Q.; Ma, C.; Li, D.; Wan, Y., Air DBD plasma treatment on three-dimensional braided carbon fiber-reinforced PEEK composites for enhancement of in vitro bioactivity. Surface & Coatings Technology 2014, 242, 1-7.
7	Oliveira, F. R.; Zille, A.; Souto, A. P., Dyeing mechanism and optimization of polyamide 6,6 functionalized with double barrier discharge (DBD) plasma in air. *Applied Surface Science* 2014, *293* , 177-186.
8	Mehrizi, M. K.; Mortazavi, S. M.; Mallakpour, S.; Bidoki, S. M.; Vik, M.; Vikova, M., The Effect of Carbon Black Nanoparticles on Some Properties of Air Plasma Printed Cotton/Polyamide 6 Fabrics. *Fibers and Polymers* 2013, *14* (10), 1620-1626.
9	Nguyen Khanh, V.; Zille, A.; Oliveira, F. R.; Carneiro, N.; Souto, A. P., Effect of Particle Size on Silver Nanoparticle Deposition onto Dielectric Barrier Discharge (DBD) Plasma Functionalized Polyamide Fabric. Plasma Processes and Polymers 2013, 10 (3), 285-296.
10	Wang, Q.; Chen, P.; Jia, C.; Chen, M.; Li, B., Improvement of PBO fiber surface and PBO/PPESK composite interface properties with air DBD plasma treatment. *Surface and Interface Analysis* 2012, *44* (5), 548-553.
11	Wang, Q.; Chen, P.; Jia, C.; Chen, M.; Li, B., Effects of air dielectric barrier discharge plasma treatment time on surface properties of PBO fiber. *Applied Surface Science* 2011, *258* (1), 513-520.
12	Jacobs, T.; De Geyter, N.; Morent, R.; Van Vlierberghe, S.; Dubruel, P.; Leys, C., Plasma modification of PET foils with different crystallinity. *Surface & Coatings Technology* 2011, *205* , S511-S515.
13	Gao, Z.; Sun, J.; Peng, S.; Yao, L.; Qiu, Y., Surface Modification of Nylon 6 Films Treated with an He/O-2 Atmospheric Pressure Plasma Jet. *Journal of Applied Polymer Science* 2011, *120* (4), 2201-2206.
14	Gao, Z., Modification of surface properties of polyamide 6 films with atmospheric pressure plasma. *Applied Surface Science* 2011, *257* (14), 6068-6072.
15	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Gonzalez-Elipe, A. R., Lateral and in-depth distribution of functional groups on diamond-like carbon after oxygen plasma treatments. *Diamond and Related Materials* 2011, *20* (2), 49-56.
16	Fang, Z.; Yang, H.; Qiu, Y., Surface Treatment of Polyethylene Terephthalate Films Using a Microsecond Pulse Homogeneous Dielectric Barrier Discharges in Atmospheric Air. *Ieee Transactions on Plasma Science* 2010, *38* (7), 1615-1623.
17	Brzezinski, S.; Tracz, A.; Polowinski, S.; Kowalczyk, D., Effect of Corona Discharge on the Morphology of Polyester Fiber Top Layer. *Journal of Applied Polymer Science* 2010, *116* (6), 3659-3667.
18	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Contreras, L.; Barranco, A.; Gonzalez-Elipe, A. R., Formation of Nitrogen Functional Groups on Plasma Treated DLC. *Plasma Processes and Polymers* 2009, *6* (9), 555-565.
19	Li, H.; Liang, H.; He, F.; Huang, Y.; Wan, Y., Air dielectric barrier discharges plasma surface treatment of three-dimensional braided carbon fiber reinforced epoxy composites. *Surface & Coatings Technology* 2009, *203* (10-11), 1317-1321.
20	Morent, R.; De Geyter, N.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Surface treatment of a polypropylene film with a nitrogen DBD at medium pressure. *European Physical Journal-Applied Physics* 2008, *43* (3), 289-294.

21	De Geyter, N.; Morent, R.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Increasing the hydrophobicity of a PP film using a helium/CF4 DBD treatment at atmospheric pressure. Plasma Chemistry and Plasma Processing 2008, 28 (2), 289-298.
22	Zhu, L.; Wang, C.; Qiu, Y., Influence of the amount of absorbed moisture in nylon fibers on atmospheric pressure plasma processing. *Surface & Coatings Technology* 2007, *201* (16-17), 7453-7461.
23	Dumitrascu, N.; Borcia, C., Adhesion properties of polyamide-6 fibres treated by dielectric barrier discharge. *Surface & Coatings Technology* 2006, *201* (3-4), 1117-1123.

20	**Borcia, G.; Anderson, C. A.; Brown, N. M. D., Using a nitrogen dielectric barrier discharge for surface treatment. *Plasma Sources Science & Technology* 2005, *14* (2), 259-267.**
1	Niu, J.; Zhang, Z.; Fan, H.; Yang, Q.; Liu, D.; Qiu, J., Plasma-Assisted Chemical Vapor Deposition of Titanium Oxide Films by Dielectric Barrier Discharge in TiCl4/O-2/N-2 Gas Mixtures. *Plasma Science & Technology* 2014, *16* (7), 695-700.
2	Ru, L.; Meng, Y.; Huang, J.; Qi, B., On-Line Measurement of Ion Density in Atmospheric Nitrogen Discharge Filaments via Radiation Signals from Plasma Oscillation*. *Plasma Science & Technology* 2014, *16* (5), 448-453.
3	Put, S.; Bertels, C.; Vanhulsel, A., Atmospheric pressure plasma treatment of polymeric powders. *Surface & Coatings Technology* 2013, *234* , 76-81.
4	Slepicka, P.; Kasalkova, N. S.; Stranska, E.; Bacakova, L.; Svorcik, V., Surface characterization of plasma treated polymers for applications as biocompatible carriers. *Express Polymer Letters* 2013, *7* (6), 535-545.
5	Kale, K. H.; Palaskar, S. S.; Kasliwal, P. M., A novel approach for functionalization of polyester and cotton textiles with continuous online deposition of plasma polymers. *Indian Journal of Fibre & Textile Research* 2012, *37* (3), 238-244.
6	Teramoto, Y.; Ono, R.; Oda, T., Production mechanism of atomic nitrogen in atmospheric pressure pulsed corona discharge measured using two-photon absorption laser-induced fluorescence. *Journal of Applied Physics* 2012, *111* (11).
7	Wang, Q.; Chen, P.; Jia, C.; Chen, M.; Li, B., Improvement of PBO fiber surface and PBO/PPESK composite interface properties with air DBD plasma treatment. *Surface and Interface Analysis* 2012, *44* (5), 548-553.
8	Merche, D.; Vandencasteele, N.; Reniers, F., Atmospheric plasmas for thin film deposition: A critical review. *Thin Solid Films* 2012, *520* (13), 4219-4236.
9	Law, V. J.; Anghel, S. D., Compact atmospheric pressure plasma self-resonant drive circuits. *Journal of Physics D-Applied Physics* 2012, *45* (7).

10	Niu, J.; Liu, D.; Chen, J.; Ding, H.; Wu, Y., Large-area surface modification of polymers using a cold pulsed glow discharge. *European Physical Journal-Applied Physics* 2012, *57* (1).
11	Liu, D.; Niu, J.; Yu, N., Optical emission characteristics of medium- to high-pressure N-2 dielectric barrier discharge plasmas during surface modification of polymers. *Journal of Vacuum Science & Technology A* 2011, *29* (6).
12	Pappas, D., Status and potential of atmospheric plasma processing of materials. *Journal of Vacuum Science & Technology A* 2011, *29* (2).
13	Jia, C.; Chen, P.; Liu, W.; Li, B.; Wang, Q., Surface treatment of aramid fiber by air dielectric barrier discharge plasma at atmospheric pressure. *Applied Surface Science* 2011, *257* (9), 4165-4170.
14	Meiners, A.; Leck, M.; Abel, B., Efficiency enhancement of a dielectric barrier plasma discharge by dielectric barrier optimization. *Review of Scientific Instruments* 2010, *81* (11).
15	Wang, K.; Wang, W.; Yang, D.; Huo, Y.; Wang, D., Surface modification of polypropylene non-woven fabric using atmospheric nitrogen dielectric barrier discharge plasma. *Applied Surface Science* 2010, *256* (22), 6859-6864.
16	Jia, C.; Chen, P.; Li, B.; Wang, Q.; Lu, C.; Yu, Q., Effects of Twaron fiber surface treatment by air dielectric barrier discharge plasma on the interfacial adhesion in fiber reinforced composites. Surface & Coatings Technology 2010, 204 (21-22), 3668-3675.
17	Morent, R.; De Geyter, N.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Influence of Discharge Atmosphere on the Ageing Behaviour of Plasma-Treated Polylactic Acid. *Plasma Chemistry and Plasma Processing* 2010, *30* (4), 525-536.
18	Meiners, A.; Leck, M.; Lyapin, A.; Abel, B., Shedding light into adhesive optimization of material interfaces by plasma treatment. *Applied Physics a-Materials Science & Processing* 2010, *100* (1), 265-272.
19	Ono, R.; Teramoto, Y.; Oda, T., Measurement of Atomic Nitrogen in N-2 Pulsed Positive Corona Discharge Using Two-Photon Absorption Laser-Induced Fluorescence. *Japanese Journal of Applied Physics* 2009, *48* (12).
20	Meiners, A.; Leck, M.; Abel, B., Multiple parameter optimization and spectroscopic characterization of a dielectric barrier discharge in N-2. *Plasma Sources Science & Technology* 2009, *18* (4).
21	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Contreras, L.; Barranco, A.; Gonzalez-Elipe, A. R., Formation of Nitrogen Functional Groups on Plasma Treated DLC. *Plasma Processes and Polymers* 2009, *6* (9), 555-565.
22	Jiang, C.; Chen, M.-T.; Gorur, A.; Schaudinn, C.; Jaramillo, D. E.; Costerton, J. W.; Sedghizadeh, P. P.; Vernier, P. T.; Gundersen, M. A., Nanosecond Pulsed Plasma Dental Probe. *Plasma Processes and Polymers* 2009, *6* (8), 479-483.
23	Jiang, C.; Chen, M.-T.; Schaudinn, C.; Gorur, A.; Vernier, P. T.; Costerton, J. W.; Jaramillo, D. E.; Sedghizadeh, P. P.; Gundersen, M. A., Pulsed Atmospheric-Pressure Cold Plasma for Endodontic Disinfection. Ieee Transactions on Plasma Science 2009, 37 (7), 1190-1195.

24	Morent, R.; De Geyter, N.; Van Vlierberghe, S.; Vanderleyden, E.; Dubruel, P.; Leys, C.; Schacht, E., Deposition of Polyacrylic Acid Films by Means of an Atmospheric Pressure Dielectric Barrier Discharge. Plasma Chemistry and Plasma Processing 2009, 29 (2), 103-117.
25	Xie, W.-j.; Li, L.-h.; Jiang, J.-h.; Cai, W.-m., Analysis of Oxygen Atmospheric Band in Dielectric Barrier Discharge at Atmospheric Pressure. *Spectroscopy and Spectral Analysis* 2009, *29* (4), 878-882.
26	Morent, R.; De Geyter, N.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Schacht, E., Organic-inorganic behaviour of HMDSO films plasma-polymerized at atmospheric pressure. *Surface & Coatings Technology* 2009, *203* (10-11), 1366-1372.
27	De Geyter, N.; Morent, R.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Gengembre, L.; Schacht, E.; Payen, E., Deposition of polymethyl methacrylate on polypropylene substrates using an atmospheric pressure dielectric barrier discharge. Progress in Organic Coatings 2009, 64 (2-3), 230-237.
28	Morent, R.; De Geyter, N.; Van Vlierberghe, S.; Dubruel, P.; Leys, C.; Gengembre, L.; Schacht, E.; Payen, E., Deposition of HMDSO-based coatings on PET substrates using an atmospheric pressure dielectric barrier discharge. Progress in Organic Coatings 2009, 64 (2-3), 304-310.
29	Rashed, U. M.; Ahmed, H.; Al-Halwagy, A.; Garamoon, A. A., Surface characteristics and printing properties of PET fabric treated by atmospheric dielectric barrier discharge plasma. *European Physical Journal-Applied Physics* 2009, *45* (1).
30	De Geyter, N.; Morent, R.; Jacobs, T.; Axisa, F.; Gengembre, L.; Leys, C.; Vanfleteren, J.; Payen, E., Remote Atmospheric Pressure DC Glow Discharge Treatment for Adhesion Improvement of PDMS. *Plasma Processes and Polymers* 2009, *6* , S406-S411.
31	Jacobs, T.; Morent, R.; De Geyter, N.; Leys, C., Effect of He/CF4 DBD Operating Parameters on PET Surface Modification. *Plasma Processes and Polymers* 2009, *6* , S412-S418.
32	Morent, R.; De Geyter, N.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Surface treatment of a polypropylene film with a nitrogen DBD at medium pressure. *European Physical Journal-Applied Physics* 2008, *43* (3), 289-294.
33	Xi, M.; Li, Y.-L.; Shang, S.-y.; Li, D.-H.; Yin, Y.-X.; Dai, X.-Y., Surface modification of aramid fiber by air DBD plasma at atmospheric pressure with continuous on-line processing. *Surface & Coatings Technology* 2008, *202* (24), 6029-6033.
34	Kim, J. H.; Sohn, J.; Cho, J. H.; Choi, M. Y.; Koo, I. G.; Lee, W. M., Surface modification of Nafion membranes using atmospheric-pressure low-temperature plasmas for electrochemical applications. *Plasma Processes and Polymers* 2008, *5* (4), 377-385.
35	De Geyter, N.; Morent, R.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Increasing the hydrophobicity of a PP film using a helium/CF4 DBD treatment at atmospheric pressure. Plasma Chemistry and Plasma Processing 2008, 28 (2), 289-298.
36	Akishev, Y. S.; Aponin, G. I.; Grushin, M. E.; Karal'nik, V. B.; Pan'kin, M. V.; Petryakov, A. V.; Trushkin, N. I., Alternating nonsteady gas-discharge modes in an atmospheric-pressure air flow blown through a point-plane gap. Plasma Physics Reports 2008, 34 (4), 312-324.

37	De Geyter, N.; Morent, R.; Leys, C.; Gengembre, L.; Payen, E.; Van Vlierberghe, S.; Schacht, E., DBD treatment of polyethylene terephthalate: Atmospheric versus medium pressure treatment. *Surface & Coatings Technology* 2008, *202* (13), 3000-3010.
38	Morent, R.; De Geyter, N.; Axisa, F.; De Smet, N.; Gengembre, L.; De Leersnyder, E.; Leys, C.; Vanfleteren, J.; Rymarczyk-Machal, M.; Schacht, E.; Payen, E., Adhesion enhancement by a dielectric barrier discharge of PDMS used for flexible and stretchable electronics. Journal of Physics D-Applied Physics 2007, 40 (23), 7392-7401.
39	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Surface modification of non-woven textiles using a dielectric barrier discharge operating in air, helium and argon at medium pressure. *Textile Research Journal* 2007, *77* (7), 471-488.
40	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Study of the ageing behaviour of polymer films treated with a dielectric barrier discharge in air, helium and argon at medium pressure. *Surface & Coatings Technology* 2007, *201* (18), 7847-7854.
41	Dumitrascu, N.; Borcia, C., Adhesion properties of polyamide-6 fibres treated by dielectric barrier discharge. *Surface & Coatings Technology* 2006, *201* (3-4), 1117-1123.

21	**Borcia, G.; Anderson, C. A.; Brown, N. M. D., The surface oxidation of selected polymers using an atmospheric pressure air dielectric barrier discharge. Part II. *Applied Surface Science* 2004, *225* (1-4), 186-197.**
1	Mahmoud, K. H., Optical properties of hydroxyethyl cellulose film treated with nitrogen plasma. *Spectrochimica Acta Part a-Molecular and Biomolecular Spectroscopy* 2016, *157* , 153-157.
2	Jorda-Vilaplana, A.; Sanchez-Nacher, L.; Garcia-Sanoguera, D.; Carbonell, A.; Ferri, J. M., Effects of aging on the adhesive properties of poly(lactic acid) by atmospheric air plasma treatment. *Journal of Applied Polymer Science* 2016, *133* (11).
3	Jorda-Vilaplana, A.; Sanchez-Nacher, L.; Garcia-Sanoguera, D.; Carbonell, A.; Ferri, J. M., Effects of aging on the adhesive properties of poly(lactic acid) by atmospheric air plasma treatment. *Journal of Applied Polymer Science* 2016, *133* (11).
4	Birer, O., Reactivity zones around an atmospheric pressure plasma jet. *Applied Surface Science* 2015, *354* , 420-428.
5	Shahid ul, I.; Mohammad, F., High-Energy Radiation Induced Sustainable Coloration and Functional Finishing of Textile Materials. *Industrial & Engineering Chemistry Research* 2015, *54* (15), 3727-3745.
6	Kuzminova, A.; Shelemin, A.; Kylian, O.; Choukourov, A.; Valentova, H.; Krakovsky, I.; Nedbal, J.; Slavinska, D.; Biederman, H., Study of the effect of atmospheric pressure air dielectric barrier discharge on nylon 6,6 foils. Polymer Degradation and Stability 2014, 110, 378-388.
7	Jorda-Vilaplana, A.; Fombuena, V.; Garcia-Garcia, D.; Samper, M. D.; Sanchez-Nacher, L., Surface modification of polylactic acid (PLA) by air atmospheric plasma treatment. *European Polymer Journal* 2014, *58* , 23-33.

8	Popescu, V.; Sandu, I.; Muresan, E. I.; Istrate, B.; Lisa, G., Effects of the Pre-treatment with Atmospheric - Air Plasma Followed by Conventional Finishing. *Revista De Chimie* 2014, *65* (6), 676-683.
9	Verkuijlen, R. O. F.; van Dongen, M. H. A.; Stevens, A. A. E.; van Geldrop, J.; Bernards, J. P. C., Surface modification of polycarbonate and polyethylene naphtalate foils by UV-ozone treatment and mu Plasma printing. Applied Surface Science 2014, 290, 381-387.
10	Mercado-Cabrera, A.; Jaramillo-Sierra, B.; Lopez-Callejas, R.; Valencia-Alvarado, R.; de la Piedad-Beneitez, A.; Pena-Eguiluz, R.; Barocio-Degado, S.; Munoz-Castro, A.; Rodriguez-Mendez, B., Surface modification of polypropylene fiber for hydrophilicity enhancement aided by DBD plasma. Progress in Organic Coatings 2013, 76 (12), 1858-1862.
11	Vallade, J.; Massines, F., Fourier-transformed infrared absorption spectroscopy: a tool to characterize the chemical composition of Ar-NH3-SiH4 dielectric barrier discharge. *Journal of Physics D-Applied Physics* 2013, *46* (46).
12	Jelil, R. A.; Zeng, X.; Koehl, L.; Perwuelz, A., Modeling plasma surface modification of textile fabrics using artificial neural networks. *Engineering Applications of Artificial Intelligence* 2013, *26* (8), 1854-1864.
13	Kikani, P.; Desai, B.; Prajapati, S.; Arun, P.; Chauhan, N.; Nema, S. K., Comparison of low and atmospheric pressure air plasma treatment of polyethylene. *Surface Engineering* 2013, *29* (3), 211-221.
14	Laroche, G.; Vallade, J.; Bazinette, R.; van Nijnatten, P.; Hernandez, E.; Hernandez, G.; Massines, F., Fourier transform infrared absorption spectroscopy characterization of gaseous atmospheric pressure plasmas with 2 mm spatial resolution. Review of Scientific Instruments 2012, 83 (10).
15	Zhen, W.; Lu, C., Surface modification of thermoplastic poly(vinyl alcohol)/saponite nanocomposites via surface-initiated atom transfer radical polymerization enhanced by air dielectric discharges barrier plasma treatment. Applied Surface Science 2012, 258 (18), 6969-6976.
16	Homola, T.; Matousek, J.; Hergelova, B.; Kormunda, M.; Wu, L. Y. L.; Cernak, M., Activation of poly(methyl methacrylate) surfaces by atmospheric pressure plasma. *Polymer Degradation and Stability* 2012, *97* (6), 886-892.
17	D'Sa, R. A.; Raj, J.; McMahon, M. A. S.; McDowell, D. A.; Burke, G. A.; Meenan, B. J., Atmospheric pressure plasma induced grafting of poly(ethylene glycol) onto silicone elastomers for controlling biological response. Journal of Colloid and Interface Science 2012, 375, 193-202.
18	Slepicka, P.; Trostova, S.; Kasalkova, N. S.; Kolska, Z.; Sajdl, P.; Svorcik, V., Surface Modification of Biopolymers by Argon Plasma and Thermal Treatment. *Plasma Processes and Polymers* 2012, *9* (2), 197-206.
19	Vesel, A.; Mozetic, M., Surface modification and ageing of PMMA polymer by oxygen plasma treatment. *Vacuum* 2012, *86* (6), 634-637.
20	Hou, J.; Jidenko, N.; Borra, J.-P.; Weber, A. P., Production of Metal Nanoparticles in Asymmetrical Dielectric Barrier Discharge-Plasma Reactor at Atmospheric Pressure. *Chemie Ingenieur Technik* 2011, *83* (12), 2161-2169.

21	Takke, V.; Behary, N.; Perwuelz, A.; Campagne, C., Surface and Adhesion Properties of Poly(ethylene glycol) on Polyester(polyethylene terephthalate) Fabric Surface: Effect of Air-Atmospheric Plasma Treatment. Journal of Applied Polymer Science 2011, 122 (4), 2621-2629.
22	Rodriguez-Santiago, V.; Bujanda, A. A.; Stein, B. E.; Pappas, D. D., Atmospheric Plasma Processing of Polymers in Helium-Water Vapor Dielectric Barrier Discharges. *Plasma Processes and Polymers* 2011, *8* (7), 631-639.
23	Siskova, K.; Safarova, K.; Seo, J. H.; Zboril, R.; Mashlan, M., Non-chemical approach toward 2D self-assemblies of Ag nanoparticles via cold plasma treatment of substrates. *Nanotechnology* 2011, *22* (27).
24	Zhou, L.; Lue, G.-H.; Chen, W.; Pang, H.; Zhang, G.-L.; Yang, S.-Z., Surface modification of polytetrafluoroethylene film using single liquid electrode atmospheric-pressure glow discharge. *Chinese Physics B* 2011, *20* (6).
25	Fang, Z.; Wang, X.; Shao, R.; Qiu, Y.; Edmund, K., The effect of discharge power density on polyethylene terephthalate film surface modification by dielectric barrier discharge in atmospheric air. *Journal of Electrostatics* 2011, *69* (1), 60-66.
26	D'Sa, R. A.; Dickinson, P. J.; Raj, J.; Pierscionek, B. K.; Meenan, B. J., Inhibition of lens epithelial cell growth via immobilisation of hyaluronic acid on atmospheric pressure plasma modified polystyrene. *Soft Matter* 2011, *7* (2), 608-617.
27	Jacobs, T.; Morent, R.; De Geyter, N.; Desmet, T.; Dubruel, P.; Leys, C., Effect of humid air exposure between successive helium plasma treatments on PET foils. *Surface & Coatings Technology* 2010, *205* (7), 2256-2261.
28	Schulze, P.; Stankiewicz, A.; Aicher, M.; Mattner, M.; Ulrich, A., Gas chemical studies using corona discharge reactors. *European Physical Journal D* 2010, *60* (3), 637-644.
29	Lin, L.; Wang, Y.; Huang, X.-D.; Xu, Z.-K.; Yao, K., Modification of hydrophobic acrylic intraocular lens with poly(ethylene glycol) by atmospheric pressure glow discharge: A facile approach. *Applied Surface Science* 2010, *256* (24), 7354-7364.
30	Morent, R.; De Geyter, N.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Influence of Discharge Atmosphere on the Ageing Behaviour of Plasma-Treated Polylactic Acid. *Plasma Chemistry and Plasma Processing* 2010, *30* (4), 525-536.
31	D'Sa, R. A.; Burke, G. A.; Meenan, B. J., Protein adhesion and cell response on atmospheric pressure dielectric barrier discharge-modified polymer surfaces. *Acta Biomaterialia* 2010, *6* (7), 2609-2620.
32	Vandencasteele, N.; Reniers, F., Plasma-modified polymer surfaces: Characterization using XPS. *Journal of Electron Spectroscopy and Related Phenomena* 2010, *178* , 394-408.
33	D'Sa, R. A.; Burke, G. A.; Meenan, B. J., Lens epithelial cell response to atmospheric pressure plasma modified poly(methylmethacrylate) surfaces. *Journal of Materials Science-Materials in Medicine* 2010, *21* (5), 1703-1712.
34	D'Sa, R. A.; Meenan, B. J., Chemical Grafting of Poly(ethylene glycol) Methyl Ether Methacrylate onto Polymer Surfaces by Atmospheric Pressure Plasma Processing. *Langmuir* 2010, *26* (3), 1894-1903.
35	Takke, V.; Behary, N.; Perwuelz, A.; Campagne, C., Studies on the Atmospheric Air-Plasma Treatment of PET (Polyethylene Terephtalate) Woven Fabrics: Effect of Process Parameters and of Aging. *Journal of Applied Polymer Science* 2009, *114* (1), 348-357.

36	Guo, L.; Campagne, C.; Perwuelz, A.; Leroux, F., Zeta Potential and Surface Physico-chemical Properties of Atmospheric Air-plasma-treated Polyester Fabrics. *Textile Research Journal* 2009, *79* (15), 1371-1377.
37	Peng, S.; Gao, Z.; Sun, J.; Yao, L.; Qiu, Y., Influence of argon/oxygen atmospheric dielectric barrier discharge treatment on desizing and scouring of poly (vinyl alcohol) on cotton fabrics. *Applied Surface Science* 2009, *255* (23), 9458-9462.
38	Leroux, F.; Perwuelz, A.; Campagne, C.; Behary, N., Atmospheric air-plasma treatments of polyester textile structures. *Journal of Adhesion Science and Technology* 2006, *20* (9), 939-957.
39	Kostov, K. G.; Honda, R. Y.; Alves, L. M. S.; Kayama, M. E., Characteristics of Dielectric Barrier Discharge Reactor for Material Treatment. *Brazilian Journal of Physics* 2009, *39* (2), 322-325.
40	Fang, Z.; Hao, L.; Yang, H.; Xie, X.; Qiu, Y.; Edmund, K., Polytetrafluoroethylene surface modification by filamentary and homogeneous dielectric barrier discharges in air. *Applied Surface Science* 2009, *255* (16), 7279-7285.
41	Fang, Z.; Xie, X.; Li, J.; Yang, H.; Qiu, Y.; Kuffel, E., Comparison of surface modification of polypropylene film by filamentary DBD at atmospheric pressure and homogeneous DBD at medium pressure in air. *Journal of Physics D-Applied Physics* 2009, *42* (8).
42	O'Connell, C.; Sherlock, R.; Ball, M. D.; Aszalos-Kiss, B.; Prendergast, U.; Glynn, T. J., Investigation of the hydrophobic recovery of various polymeric biomaterials after 172 nm UV treatment using contact angle, surface free energy and XPS measurements. Applied Surface Science 2009, 255 (8), 4405-4413.
43	Chiper, A. S.; Nastuta, A. V.; Rusu, G. B.; Popa, G., On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge. Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms 2009, 267 (2), 313-316.
44	Jacobs, T.; Morent, R.; De Geyter, N.; Leys, C., Effect of He/CF4 DBD Operating Parameters on PET Surface Modification. *Plasma Processes and Polymers* 2009, *6* , S412-S418.
45	Pappas, D. D.; Bujanda, A. A.; Orlicki, J. A.; Jensen, R. E., Chemical and morphological modification of polymers under a helium-oxygen dielectric barrier discharge. *Surface & Coatings Technology* 2008, *203* (5-7), 830-834.
46	Leroux, F.; Campagne, C.; Perwuelz, A.; Gengembre, L., Polypropylene film chemical and physical modifications by dielectric barrier discharge plasma treatment at atmospheric pressure. *Journal of Colloid and Interface Science* 2008, *328* (2), 412-420.
47	Vesel, A., XPS STUDY OF SURFACE MODIFICATION OF DIFFERENT POLYMER MATERIALS BY OXYGEN PLASMA TREATMENT. *Informacije Midem-Journal of Microelectronics Electronic Components and Materials* 2008, *38* (4), 257-265.
48	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Barranco, A.; Gonzalez-Elipe, A. R., -Plasmas and atom beam activation of the surface of polymers. *Journal of Physics D-Applied Physics* 2008, *41* (22).
49	Xi, Z.-Y.; Xu, Y.-Y.; Zhu, L.-P.; Liu, F.; Zhu, B.-K., Studies on surface grafting of AAc/SSS binary monomers onto polytetrafluoroethylene by dielectric barrier discharge initiation. *Applied Surface Science* 2008, *254* (22), 7469-7476.

50	Liu, C.; Meenan, B. J., Effect of Air Plasma Processing on the Adsorption Behaviour of Bovine Serum Albumin on Spin-Coated PMMA Surfaces. *Journal of Bionic Engineering* 2008, *5* (3), 204-214.
51	Leroux, F.; Campagne, C.; Perwuelz, A.; Gengembre, L., Atmospheric air plasma treatment of polyester textile materials. Textile structure influence on surface oxidation and silicon resin adhesion. Surface & Coatings Technology 2009, 203 (20-21), 3178-3183.
52	De Geyter, N.; Morent, R.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Increasing the hydrophobicity of a PP film using a helium/CF4 DBD treatment at atmospheric pressure. Plasma Chemistry and Plasma Processing 2008, 28 (2), 289-298.
53	De Geyter, N.; Morent, R.; Leys, C.; Gengembre, L.; Payen, E.; Van Vlierberghe, S.; Schacht, E., DBD treatment of polyethylene terephthalate: Atmospheric versus medium pressure treatment. *Surface & Coatings Technology* 2008, *202* (13), 3000-3010.
54	Wang, C. X.; Ren, Y.; Qiu, Y. P., Penetration depth of atmospheric pressure plasma surface modification into multiple layers of polyester fabrics. *Surface & Coatings Technology* 2007, *202* (1), 77-83.
55	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Surface modification of non-woven textiles using a dielectric barrier discharge operating in air, helium and argon at medium pressure. *Textile Research Journal* 2007, *77* (7), 471-488.
56	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Study of the ageing behaviour of polymer films treated with a dielectric barrier discharge in air, helium and argon at medium pressure. *Surface & Coatings Technology* 2007, *201* (18), 7847-7854.
57	Tong, W.; Lu, C.; Cai, Y.; Huang, Y., Surface modification of fluororubber using atmospheric pressure dielectric barrier discharge (DBD). *Plasma Science & Technology* 2007, *9* (3), 296-300.
58	De Geyter, N.; Morent, R.; Leys, C., Surface modification of a polyester non-woven with a dielectric barrier discharge in air at medium pressure. *Surface & Coatings Technology* 2006, *201* (6), 2460-2466.
59	Wang, C.; He, X., Preparation of hydrophobic coating on glass surface by dielectric barrier discharge using a 16 kHz power supply. *Applied Surface Science* 2006, *252* (23), 8348-8351.
60	Krstulovic, N.; Labazan, I.; Milosevic, S.; Cvelbar, U.; Vesel, A.; Mozetic, M., Optical emission spectroscopy characterization of oxygen plasma during treatment of a PET foil. *Journal of Physics D-Applied Physics* 2006, *39* (17), 3799-3804.
61	Morent, R.; De Geyter, N.; Leys, C.; Vansteenkiste, E.; De Bock, J.; Philips, W., Measuring the wicking behavior of textiles by the combination of a horizontal wicking experiment and image processing. *Review of Scientific Instruments* 2006, *77* (9).
62	De Geyter, N.; Morent, R.; Leys, C., Penetration of a dielectric barrier discharge plasma into textile structures at medium pressure. *Plasma Sources Science & Technology* 2006, *15* (1), 78-84.
63	Leroux, F.; Campagne, C.; Perwuelz, A.; Gengembre, L., Fluorocarbon nano-coating of polyester fabrics by atmospheric air plasma with aerosol. *Applied Surface Science* 2008, *254* (13), 3902-3908.

64	Chen, Q.; Zhang, Y. F.; Han, E.; Ge, Y. J., Atmospheric pressure DBD gun and its application in ink printability. *Plasma Sources Science & Technology* 2005, *14* (4), 670-675.

22	**Borcia, G.; Brown, N. M. D.; Dixon, D.; McIlhagger, R., The effect of an air-dielectric barrier discharge on the surface properties and peel strength of medical packaging materials. *Surface & Coatings Technology* 2004, *179* (1), 70-77.**
1	Naz, M. Y.; Shukrullah, S.; Ghaffar, A.; Rehman, N. U.; Sagir, M., A Low-Frequency Dielectric Barrier Discharge System Design for Textile Treatment. *Applied Economics Letters* 2016, *23* (8), 104-109.
2	Zhang, C.; Zhou, Y.; Shao, T.; Xie, Q.; Xu, J.; Yang, W., Hydrophobic treatment on polymethylmethacrylate surface by nanosecond-pulse DBDs in CF4 at atmospheric pressure. *Applied Surface Science* 2014, *311* , 468-477.
3	Goncalves Da Silva, L. L.; Ferreira, L. G.; Santos, A. L.; Botelho, E. C.; Toth, A.; Kostov, K. G., Treatment of Reticulated Vitreous Carbon by Dielectric Barrier Discharge Plasma for Electrodes Production. Ieee Transactions on Plasma Science 2013, 41 (12), 3207-3213.
4	Rzanek-Boroch, Z.; Zagrajek, U.; Czajkowska, D., Use of tea tree oil as an antimicrobial substance in the plasma modification of polyamide-polyethylene film. *Przemysl Chemiczny* 2012, *91* (9), 1782-1784.
5	Fang, Z.; Liu, Y.; Liu, K.; Shao, T.; Zhang, C., Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma. *Vacuum* 2012, *86* (9), 1305-1312.
6	Dixon, D.; Meenan, B. J., Atmospheric Dielectric Barrier Discharge Treatments of Polyethylene, Polypropylene, Polystyrene and Poly(ethylene terephthalate) for Enhanced Adhesion. *Journal of Adhesion Science and Technology* 2012, *26* (20-21), 2325-2337.
7	Fang, Z.; Wang, X.; Shao, R.; Qiu, Y.; Edmund, K., The effect of discharge power density on polyethylene terephthalate film surface modification by dielectric barrier discharge in atmospheric air. *Journal of Electrostatics* 2011, *69* (1), 60-66.
8	D'Sa, R. A.; Burke, G. A.; Meenan, B. J., Protein adhesion and cell response on atmospheric pressure dielectric barrier discharge-modified polymer surfaces. *Acta Biomaterialia* 2010, *6* (7), 2609-2620.
9	Zhang, C.; Shao, T.; Long, K.; Yu, Y.; Wang, J.; Zhang, D.; Yan, P.; Zhou, Y., Surface Treatment of Polyethylene Terephthalate Films Using DBD Excited by Repetitive Unipolar Nanosecond Pulses in Air at Atmospheric Pressure. Ieee Transactions on Plasma Science 2010, 38 (6), 1517-1526.
10	Cernak, M.; Cernakova, L.; Hudec, I.; Kovacik, D.; Zahoranova, A., Diffuse Coplanar Surface Barrier Discharge and its applications for in-line processing of low-added-value materials. *European Physical Journal-Applied Physics* 2009, *47* (2).
11	Morent, R.; De Geyter, N.; Verschuren, J.; De Clerck, K.; Kiekens, P.; Leys, C., Non-thermal plasma treatment of textiles. *Surface & Coatings Technology* 2008, *202* (14), 3427-3449.

12	Dixon, D.; Morrison, R.; Lemoine, P.; Meenan, B. J., Long term effects of air dielectric barrier discharge treatment on the surface properties of ethylene vinyl acetate (EVA). *Journal of Adhesion Science and Technology* 2008, *22* (7), 717-731.
13	Liu, C. Z.; Brown, N. M. D.; Meenan, B. J., Statistical analysis of the effect of dielectric barrier discharge (DBD) operating parameters on the surface processing of poly(methylmethacrylate) film. *Surface Science* 2005, *575* (3), 273-286.
14	Abbas, G. A.; Roy, S. S.; Papakonstantinou, P.; McLaughlin, J. A., Structural investigation and gas barrier performance of diamond-like carbon based films on polymer substrates. *Carbon* 2005, *43* (2), 303-309.

23	**Borcia, G.; Anderson, C. A.; Brown, N. M. D., The surface oxidation of selected polymers using an atmospheric pressure air dielectric barrier discharge. Part I. *Applied Surface Science* 2004, *221* (1-4), 203-214.**
1	Wang, R.; Shen, Y.; Zhang, C.; Yan, P.; Shao, T., Comparison between helium and argon plasma jets on improving the hydrophilic property of PMMA surface. *Applied Surface Science* 2016, *367* , 401-406.
2	Mahmoud, K. H., Optical properties of hydroxyethyl cellulose film treated with nitrogen plasma. *Spectrochimica Acta Part a-Molecular and Biomolecular Spectroscopy* 2016, *157* , 153-157.
3	Kuzminova, A.; Vandrovcova, M.; Shelemin, A.; Kylian, O.; Choukourov, A.; Hanus, J.; Bacakova, L.; Slavinska, D.; Biederman, H., Treatment of poly(ethylene terephthalate) foils by atmospheric pressure air dielectric barrier discharge and its influence on cell growth. Applied Surface Science 2015, 357, 689-695.
4	Pankaj, S. K.; Bueno-Ferrer, C.; Misra, N. N.; O'Neill, L.; Tiwari, B. K.; Bourke, P.; Cullen, P. J., Dielectric barrier discharge atmospheric air plasma treatment of high amylose corn starch films. *Lwt-Food Science and Technology* 2015, *63* (2), 1076-1082.
5	Ivanova, T. V.; Baier, G.; Landfester, K.; Musin, E.; Al-Bataineh, S. A.; Cameron, D. C.; Homola, T.; Whittle, J. D.; Sillanpaa, M., Attachment of Poly(l-lactide) Nanoparticles to Plasma-Treated Non-Woven Polymer Fabrics Using Inkjet Printing. Macromolecular Bioscience 2015, 15 (9), 1274-1282.
6	Van Deynse, A.; Cools, P.; Leys, C.; Morent, R.; De Geyter, N., Surface modification of polyethylene in an argon atmospheric pressure plasma jet. *Surface & Coatings Technology* 2015, *276* , 384-390.
7	Wang, R.; Zhang, C.; Liu, X.; Xie, Q.; Yan, P.; Shao, T., Microsecond pulse driven Ar/CF4 plasma jet for polymethylmethacrylate surface modification at atmospheric pressure. *Applied Surface Science* 2015, *328* , 509-515.
8	Kuzminova, A.; Shelemin, A.; Kylian, O.; Choukourov, A.; Valentova, H.; Krakovsky, I.; Nedbal, J.; Slavinska, D.; Biederman, H., Study of the effect of atmospheric pressure air dielectric barrier discharge on nylon 6,6 foils. Polymer Degradation and Stability 2014, 110, 378-388.

9	Pankaj, S. K.; Bueno-Ferrer, C.; Misra, N. N.; Bourke, P.; Cullen, P. J., Zein Film: Effects of Dielectric Barrier Discharge Atmospheric Cold Plasma. *Journal of Applied Polymer Science* 2014, *131* (18).
10	Kusano, Y., Atmospheric Pressure Plasma Processing for Polymer Adhesion: A Review. *Journal of Adhesion* 2014, *90* (9), 755-777.
11	Abou Rich, S.; Leroy, P.; Dufour, T.; Wehbe, N.; Houssiau, L.; Reniers, F., In-depth diffusion of oxygen into LDPE exposed to an Ar-O-2 atmospheric post-discharge: a complementary approach between AR-XPS and Tof-SIMS techniques. Surface and Interface Analysis 2014, 46 (3), 164-174.
12	Abou Rich, S.; Dufour, T.; Leroy, P.; Nittler, L.; Pireaux, J. J.; Reniers, F., Low-density polyethylene films treated by an atmospheric Ar-O-2 post-discharge: functionalization, etching, degradation and partial recovery of the native wettability state. Journal of Physics D-Applied Physics 2014, 47 (6).
13	Verkuijlen, R. O. F.; van Dongen, M. H. A.; Stevens, A. A. E.; van Geldrop, J.; Bernards, J. P. C., Surface modification of polycarbonate and polyethylene naphtalate foils by UV-ozone treatment and mu Plasma printing. Applied Surface Science 2014, 290, 381-387.
14	Fombuena, V.; Garcia-Sanoguera, D.; Sanchez-Nacher, L.; Balart, R.; Boronat, T., Optimization of atmospheric plasma treatment of LDPE films: influence on adhesive properties and ageing behavior. Journal of Adhesion Science and Technology 2014, 28 (1), 97-113.
15	Niu, Z.; Zhang, C.; Shao, T.; Fang, Z.; Yu, Y.; Yan, P., Repetitive nanosecond-pulse dielectric barrier discharge and its application on surface modification of polymers. *Surface & Coatings Technology* 2013, *228* , S578-S582.
16	van Dongen, M. H. A.; Verkuijlen, R. O. F.; Aben, R.; Bernards, J. P. C., Wettability and Aging of Polymer Substrates after Atmospheric Dielectrical Barrier Discharge Plasma on Demand Treatment. *Journal of Imaging Science and Technology* 2013, *57* (3).
17	Taraballi, F.; Zanini, S.; Lupo, C.; Panseri, S.; Cunha, C.; Riccardi, C.; Marcacci, M.; Campione, M.; Cipolla, L., Amino and carboxyl plasma functionalization of collagen films for tissue engineering applications. Journal of Colloid and Interface Science 2013, 394, 590-597.
18	De Geyter, N., Influence of dielectric barrier discharge atmosphere on polylactic acid (PLA) surface modification. *Surface & Coatings Technology* 2013, *214* , 69-76.
19	Chen, R.; Bayon, Y.; Hunt, J. A., Preliminary study on the effects of ageing cold oxygen plasma treated PET/PP with respect to protein adsorption. *Colloids and Surfaces B-Biointerfaces* 2012, *96* , 62-68.
20	D'Sa, R. A.; Raj, J.; McMahon, M. A. S.; McDowell, D. A.; Burke, G. A.; Meenan, B. J., Atmospheric pressure plasma induced grafting of poly(ethylene glycol) onto silicone elastomers for controlling biological response. Journal of Colloid and Interface Science 2012, 375, 193-202.

21	Wei, Y.; Chen, Y.; Liu, P.; Gao, Q.; Sun, Y.; Huang, C., Surface Modification of Hydrophobic PMMA Intraocular Lens by the Immobilization of Hydroxyethyl Methacrylate for Improving Application in Ophthalmology. Plasma Chemistry and Plasma Processing 2011, 31 (6), 811-825.
22	Takke, V.; Behary, N.; Perwuelz, A.; Campagne, C., Surface and Adhesion Properties of Poly(ethylene glycol) on Polyester(polyethylene terephthalate) Fabric Surface: Effect of Air-Atmospheric Plasma Treatment. Journal of Applied Polymer Science 2011, 122 (4), 2621-2629.
23	Jacobs, T.; De Geyter, N.; Morent, R.; Desmet, T.; Dubruel, P.; Leys, C., Plasma treatment of polycaprolactone at medium pressure. *Surface & Coatings Technology* 2011, *205* , S543-S547.
24	Rodriguez-Santiago, V.; Bujanda, A. A.; Stein, B. E.; Pappas, D. D., Atmospheric Plasma Processing of Polymers in Helium-Water Vapor Dielectric Barrier Discharges. *Plasma Processes and Polymers* 2011, *8* (7), 631-639.
25	Siskova, K.; Safarova, K.; Seo, J. H.; Zboril, R.; Mashlan, M., Non-chemical approach toward 2D self-assemblies of Ag nanoparticles via cold plasma treatment of substrates. *Nanotechnology* 2011, *22* (27).
26	Babaeva, N. Y.; Kushner, M. J., Ion energy and angular distributions onto polymer surfaces delivered by dielectric barrier discharge filaments in air: I. Flat surfaces. *Plasma Sources Science & Technology* 2011, *20* (3).
27	Russo, L.; Zanini, S.; Riccardi, C.; Nicotra, F.; Cipolla, L., Diazo transfer for azido-functional surfaces. *Materials Today* 2011, *14* (4), 164-169.
28	Gururaj, T.; Subasri, R.; Raju, K. R. C. S.; Padmanabham, G., Effect of plasma pretreatment on adhesion and mechanical properties of UV-curable coatings on plastics. *Applied Surface Science* 2011, *257* (9), 4360-4364.
29	D'Sa, R. A.; Dickinson, P. J.; Raj, J.; Pierscionek, B. K.; Meenan, B. J., Inhibition of lens epithelial cell growth via immobilisation of hyaluronic acid on atmospheric pressure plasma modified polystyrene. *Soft Matter* 2011, *7* (2), 608-617.
30	Guenther, S.; Teuscher, N.; Heilmann, A.; Haensel, R.; Voigt, H.-M.; Kiesow, A., In-Line Investigations of Atmospheric Pressure Plasma Processes in Correlation with Surface Analysis. *Journal of Adhesion Science and Technology* 2011, *25* (8), 857-868.
31	Schulze, P.; Stankiewicz, A.; Aicher, M.; Mattner, M.; Ulrich, A., Gas chemical studies using corona discharge reactors. *European Physical Journal D* 2010, *60* (3), 637-644.
32	Gorjanc, M.; Bukosek, V.; Gorensek, M.; Mozetic, M., CF4 plasma and silver functionalized cotton. *Textile Research Journal* 2010, *80* (20), 2204-2213.
33	Lin, L.; Wang, Y.; Huang, X.-D.; Xu, Z.-K.; Yao, K., Modification of hydrophobic acrylic intraocular lens with poly(ethylene glycol) by atmospheric pressure glow discharge: A facile approach. *Applied Surface Science* 2010, *256* (24), 7354-7364.
34	De Geyter, N.; Morent, R.; Desmet, T.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Plasma modification of polylactic acid in a medium pressure DBD. *Surface & Coatings Technology* 2010, *204* (20), 3272-3279.

35	Zhang, C.; Shao, T.; Long, K.; Yu, Y.; Wang, J.; Zhang, D.; Yan, P.; Zhou, Y., Surface Treatment of Polyethylene Terephthalate Films Using DBD Excited by Repetitive Unipolar Nanosecond Pulses in Air at Atmospheric Pressure. Ieee Transactions on Plasma Science 2010, 38 (6), 1517-1526.
36	Jacobs, T.; Carbone, E.; Morent, R.; De Geyter, N.; Reniers, F.; Leys, C., Surface modification of polymer films with a remote atmospheric pressure d.c. glow discharge: influence of substrate location. Surface and Interface Analysis 2010, 42 (6-7), 1316-1320.
37	Vandencasteele, N.; Reniers, F., Plasma-modified polymer surfaces: Characterization using XPS. *Journal of Electron Spectroscopy and Related Phenomena* 2010, *178* , 394-408.
38	D'Sa, R. A.; Burke, G. A.; Meenan, B. J., Lens epithelial cell response to atmospheric pressure plasma modified poly(methylmethacrylate) surfaces. *Journal of Materials Science-Materials in Medicine* 2010, *21* (5), 1703-1712.
39	D'Sa, R. A.; Meenan, B. J., Chemical Grafting of Poly(ethylene glycol) Methyl Ether Methacrylate onto Polymer Surfaces by Atmospheric Pressure Plasma Processing. *Langmuir* 2010, *26* (3), 1894-1903.
40	Sentek, J.; Rzanek-Boroch, Z.; Brykala, M.; Schmidt-Szalowski, K., Organo-silicon coating deposition on polyethylene films by pulsed dielectric-barrier discharges. *Polimery* 2010, *55* (2), 127-134.
41	Rogojanu, A.; Rusu, E.; Dorohoi, D. O., Characterization of Structural Modifications Induced on Poly(Vinyl Alcohol) Surface by Atmospheric Pressure Plasma. *International Journal of Polymer Analysis and Characterization* 2010, *15* (4), 210-221.
42	Peng, S.; Gao, Z.; Sun, J.; Yao, L.; Qiu, Y., Influence of argon/oxygen atmospheric dielectric barrier discharge treatment on desizing and scouring of poly (vinyl alcohol) on cotton fabrics. *Applied Surface Science* 2009, *255* (23), 9458-9462.
43	Beck, A. J.; Gonzalvo, Y. A.; Pilkington, A.; Yerokhin, A.; Matthews, A., Positive Ion Mass Spectrometry during an Atmospheric Pressure Plasma Treatment of Polymers. *Plasma Processes and Polymers* 2009, *6* (8), 521-529.
44	Kusano, Y., Plasma surface modification at atmospheric pressure. *Surface Engineering* 2009, *25* (6), 415-416.
45	Fang, Z.; Hao, L.; Yang, H.; Xie, X.; Qiu, Y.; Edmund, K., Polytetrafluoroethylene surface modification by filamentary and homogeneous dielectric barrier discharges in air. *Applied Surface Science* 2009, *255* (16), 7279-7285.
46	Fang, Z.; Xie, X.; Li, J.; Yang, H.; Qiu, Y.; Kuffel, E., Comparison of surface modification of polypropylene film by filamentary DBD at atmospheric pressure and homogeneous DBD at medium pressure in air. *Journal of Physics D-Applied Physics* 2009, *42* (8).
47	Pichal, J.; Hladik, J.; Spatenka, P., Atmospheric-Air Plasma Surface modification of Polyethylene Powder. *Plasma Processes and Polymers* 2009, *6* (2), 148-153.
48	Chiper, A. S.; Nastuta, A. V.; Rusu, G. B.; Popa, G., On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge. Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms 2009, 267 (2), 313-316.

49	Ren, C. S.; Wang, K.; Nie, Q. Y.; Wang, D. Z.; Guo, S. H., Surface modification of PE film by DBD plasma in air. *Applied Surface Science* 2008, *255* (5), 3421-3425.
50	Pappas, D. D.; Bujanda, A. A.; Orlicki, J. A.; Jensen, R. E., Chemical and morphological modification of polymers under a helium-oxygen dielectric barrier discharge. *Surface & Coatings Technology* 2008, *203* (5-7), 830-834.
51	Leroux, F.; Campagne, C.; Perwuelz, A.; Gengembre, L., Polypropylene film chemical and physical modifications by dielectric barrier discharge plasma treatment at atmospheric pressure. *Journal of Colloid and Interface Science* 2008, *328* (2), 412-420.
52	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Barranco, A.; Gonzalez-Elipe, A. R., -Plasmas and atom beam activation of the surface of polymers. *Journal of Physics D-Applied Physics* 2008, *41* (22).
53	Qiu, X.; Gerhard, R., Effective polarization fatigue from repeated dielectric barrier discharges in cellular polypropylene ferroelectrets. *Applied Physics Letters* 2008, *93* (15).
54	Wang, K.; Li, J.; Ren, C.; Wang, D.; Wang, Y., Surface modification of polyethylene (PE) films using dielectric barrier discharge plasma at atmospheric pressure. *Plasma Science & Technology* 2008, *10* (4), 433-437.
55	Bhoj, A. N.; Kushner, M. J., Repetitively pulsed atmospheric pressure discharge treatment of rough polymer surfaces: I. Humid air discharges. *Plasma Sources Science & Technology* 2008, *17* (3).
56	Leroux, F.; Campagne, C.; Perwuelz, A.; Gengembre, L., Fluorocarbon nano-coating of polyester fabrics by atmospheric air plasma with aerosol. *Applied Surface Science* 2008, *254* (13), 3902-3908.
57	De Geyter, N.; Morent, R.; Leys, C.; Gengembre, L.; Payen, E.; Van Vlierberghe, S.; Schacht, E., DBD treatment of polyethylene terephthalate: Atmospheric versus medium pressure treatment. *Surface & Coatings Technology* 2008, *202* (13), 3000-3010.
58	De Geyter, N.; Morent, R.; Leys, C., Surface characterization of plasma-modified polyethylene by contact angle experiments and ATR-FTIR spectroscopy. *Surface and Interface Analysis* 2008, *40* (3-4), 608-611.
59	Sira, M.; Trunec, D.; St'ahel, P.; Bursikova, V.; Navratil, Z., Surface modification of polycarbonate in homogeneous atmospheric pressure discharge. *Journal of Physics D-Applied Physics* 2008, *41* (1).
60	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Study of the ageing behaviour of polymer films treated with a dielectric barrier discharge in air, helium and argon at medium pressure. *Surface & Coatings Technology* 2007, *201* (18), 7847-7854.
61	Shin, D. H.; Bang, C. U.; Kim, J. H.; Han, K. H.; Hong, Y. C.; Uhm, H. S.; Park, D. K.; Kim, K. H., Modification of metal surfaces by microwave plasma at atmospheric pressure. *Surface & Coatings Technology* 2007, *201* (9-11), 4939-4942.
62	Wang, C.; He, X., Polypropylene surface modification model in atmospheric pressure dielectric barrier discharge. *Surface & Coatings Technology* 2006, *201* (6), 3377-3384
63	Wang, C.; He, X., Effect of atmospheric pressure dielectric barrier discharge air plasma on electrode surface. *Applied Surface Science* 2006, *253* (2), 926-929.

64	Shin, D. H.; Bang, C. U.; Kim, J. H.; Hong, Y. C.; Uhm, H. S.; Park, D. K.; Kim, K. H., Treatment of metal surface by atmospheric microwave plasma jet. *Ieee Transactions on Plasma Science* 2006, *34* (4), 1241-1246.
65	Zhao, Y.; Tang, S.; Myung, S. W.; Lu, N.; Choi, H. S., Effect of washing on surface free energy of polystyrene plate treated by RF atmospheric pressure plasma. *Polymer Testing* 2006, *25* (3), 327-332.
66	Leroux, F.; Perwuelz, A.; Campagne, C.; Behary, N., Atmospheric air-plasma treatments of polyester textile structures. *Journal of Adhesion Science and Technology* 2006, *20* (9), 939-957.
67	Sira, M.; Trunec, D.; Stahel, P.; Bursikova, V.; Navratil, Z.; Bursik, J., Surface modification of polyethylene and polypropylene in atmospheric pressure glow discharge. *Journal of Physics D-Applied Physics* 2005, *38* (4), 621-627.
68	Sira, M.; Stahel, P.; Bursikova, V.; Vohanka, J.; Trunec, D., Activation of polyethylene and polypropylene in atmospheric pressure glow discharge. *Czechoslovak Journal of Physics* 2004, *54* , C835-C839.

24	**Viville, P.; Lazzaroni, R.; Pollet, E.; Alexandre, M.; Dubois, P.; Borcia, G.; Pireaux, J. J., Surface characterization of poly(epsilon-caprolactone)-based nanocomposites. *Langmuir* 2003, *19* (22), 9425-9433.**
1	Yalcinkaya, E. E., In situ synthesis of poly(N-vinylimidazole)/montmorillonite nanocomposites using intercalated monomer and thermal properties. *Journal of Composite Materials* 2016, *50* (4), 533-542.
2	Zulfiqar, S.; Sarwar, M. I.; Rasheed, N.; Yavuz, C. T., Influence of interlayer functionalization of kaolinite on property profile of copolymer nanocomposites. *Applied Clay Science* 2015, *112* , 25-31.
3	Roumeli, E.; Papageorgiou, D. G.; Tsanaktsis, V.; Terzopoulou, Z.; Chrissafis, K.; Avgeropoulos, A.; Bikiaris, D. N., Amino-Functionalized Multiwalled Carbon Nanotubes Lead to Successful Ring-Opening Polymerization of Poly(epsilon-caprolactone): Enhanced Interfacial Bonding and Optimized Mechanical Properties. Acs Applied Materials & Interfaces 2015, 7 (21), 11683-11694.
4	Bhagabati, P.; Chaki, T. K.; Khastgir, D., Panoptically exfoliated morphology of chlorinated polyethylene (CPE)/ethylene methacrylate copolymer (EMA)/layered silicate nanocomposites by novel in situ covalent modification using poly (epsilon-caprolactone). Rsc Advances 2015, 5 (48), 38209-38222.
5	El Ghaoui, H.; Raihane, M.; Rhouta, B.; Bitinis, N.; Carlmark, A.; Arroyo, M.; Verdejo, R.; Lopez-Manchado, M. A.; Lahcini, M., Bismuth complex catalysts for the in situ preparation of polycaprolactone/silicate bionanocomposites. Polymer International 2014, 63 (4), 709-717.
6	Bhatt, S.; Pulpytel, J.; Mirshahi, M.; Arefi-Khonsari, F., Nano thick poly(epsilon-caprolactone)-poly(ethylene glycol) coatings developed by catalyst-free plasma assisted copolymerization process for biomedical applications. Rsc Advances 2012, 2 (24), 9114-9123.

7	Das, C. K.; Nayak, G. C.; Friedrich, S.; Gehde, M., Vibration Welding of Amorphous Thermoplastic Nanocomposites. *Materials and Manufacturing Processes* 2012, *27* (7), 786-790.
8	Guadalupe Neira-Velazquez, M.; Francisco Ramos-deValle, L.; Hernandez-Hernandez, E.; Ponce-Pedraza, A.; Guadalupe Solis-Rosales, S.; Sanchez-Valdez, S.; Bartolo-Perez, P.; Gonzalez-Gonzalez, V. A., Surface Modification of Nanoclays by Plasma Polymerization of Ethylene. Plasma Processes and Polymers 2011, 8 (9), 842-849.
9	Wang, C.-F.; Liao, C.-S.; Kuo, S.-W.; Lin, H.-C., Tunable wettability of carbon nanotube/poly (epsilon-caprolactone) hybrid films. *Applied Surface Science* 2011, *257* (21), 9152-9157.
10	Kundu, P. P.; Larock, R. C., Montmorillonite-Filled Nanocomposites of Tung Oil/Styrene/Divinylbenzene Polymers Prepared by Thermal Polymerization. *Journal of Applied Polymer Science* 2011, *119* (3), 1297-1306.
11	Peng, H.; Han, Y.; Liu, T.; Tjiu, W. C.; He, C., Morphology and thermal degradation behavior of highly exfoliated CoAl-layered double hydroxide/polycaprolactone nanocomposites prepared by simple solution intercalation. Thermochimica Acta 2010, 502 (1-2), 1-7.
12	Sharma, V.; Banait, J. S.; Larock, R. C.; Kundu, P. P., Synthesis and Characterization of Linseed Oil-Based Nanocomposites. *Polymer Composites* 2010, *31* (4), 630-637.
13	Cometa, S.; Chiellini, F.; Bartolozzi, I.; Chiellini, E.; De Giglio, E.; Sabbatini, L., Surface Segregation Assessment in Poly(epsilon-caprolactone)-poly(ethylene glycol) Multiblock Copolymer Films. *Macromolecular Bioscience* 2010, *10* (3), 317-327.
14	Turhan, Y.; Dogan, M.; Alkan, M., Poly(vinyl chloride)/Kaolinite Nanocomposites: Characterization and Thermal and Optical Properties. *Industrial & Engineering Chemistry Research* 2010, *49* (4), 1503-1513.
15	Martucci, J. F.; Ruseckaite, R. A., Biodegradable Bovine Gelatin/Na+-Montmorillonite Nanocomposite Films. Structure, Barrier and Dynamic Mechanical Properties. *Polymer-Plastics Technology and Engineering* 2010, *49* (6), 581-588.
16	Bordes, P.; Pollet, E.; Averous, L., Nano-biocomposites: Biodegradable polyester/nanoclay systems. *Progress in Polymer Science* 2009, *34* (2), 125-155.
17	Yuan, X.; Li, C.; Guan, G.; Xiao, Y.; Zhang, D., Surface Grafting Modification of Fibrous Silicates with Polyvinylpyrrolidone and Its Application in Nanocomposites. *Journal of Applied Polymer Science* 2009, *111* (1), 566-575.
18	Sikdar, D.; Katti, D. R.; Katti, K. S.; Mohanty, B., Influence of backbone chain length and functional groups of organic modifiers on crystallinity and nanomechanical properties of intercalated clay-polycaprolactam nanocomposites. International Journal of Nanotechnology 2009, 6 (5-6), 468-492.
19	Sharma, V.; Banait, J. S.; Kundu, P. P., Spectroscopic characterization of linseed oil based polymer nano-composites. *Polymer Testing* 2008, *27* (8), 916-923.
20	Gonzalez, T. V.; Salazar, C. G.; De la Rosa, J. R.; Gonzalez, V. G., Nylon 6/organoclay nanocomposites by extrusion. *Journal of Applied Polymer Science* 2008, *108* (5), 2923-2933.

21	Brocorens, P.; Benali, S.; Broekaert, C.; Monteverde, F.; Miltner, H. E.; Van Mele, B.; Alexandre, M.; Dubois, P.; Lazzaroni, R., Microscopic morphology of chlorinated polyethylene-based nanocomposites synthesized from poly(epsilon-caprolactone)/clay masterbatches. Langmuir 2008, 24 (5), 2072-2080.
22	Perez, C. J.; Vazquez, A.; Alvarez, V. A., Isothermal crystallization of layered silicate/starch-polycaprolactone blend nanocomposites. *Journal of Thermal Analysis and Calorimetry* 2008, *91* (3), 749-757.
23	Tarkin-Tas, E.; Goswami, S. K.; Nayak, B. R.; Mathias, L. J., Highly exfoliated poly(epsilon-caprolactone)/organomontmorillonite nanocomposites prepared by in situ polymerization. *Journal of Applied Polymer Science* 2008, *107* (2), 976-984.
24	Haouas, M.; Harrane, A.; Belbachir, M.; Taulelle, F., Solid state NMR characterization of formation of Poly(epsilon-Caprolactone)/Maghnite nanocomposites by in situ polymerization. Journal of Polymer Science Part B-Polymer Physics 2007, 45 (22), 3060-3068.
25	Kiersnowski, A.; Gutmann, J. S.; Pigtowski, J., Influence of organic modifiers on morphology and crystallization of poly(epsilon-caprolactone)/synthetic clay intercalated nanocomposites. Journal of Polymer Science Part B-Polymer Physics 2007, 45 (17), 2350-2367.
26	Sahoo, P. K.; Samal, R., Fire retardancy and biodegradability of poly(methyl methacrylate)/montmorillonite nanocomposite. *Polymer Degradation and Stability* 2007, *92* (9), 1700-1707.
27	Perez, C. J.; Alvarez, V. A.; Stefani, P. M.; Vazquez, A., Non-isothermal crystallization of MaterBi-Z/clay nanocomposites. *Journal of Thermal Analysis and Calorimetry* 2007, *88* (3), 825-832.
28	Perez, C. J.; Alvarez, V. A.; Mondragon, I.; Vazquez, A., Mechanical properties of layered silicate/starch polycaprolactone blend nanocomposites. *Polymer International* 2007, *56* (5), 686-693.
29	Zhang, Z.; Shi, Q.; Peng, J.; Song, J.; Chen, Q.; Yang, J.; Gong, Y.; Ji, R.; He, X.; Lee, J.-H., Partial delamination of the organo-montmorillonite with surfactant containing hydroxyl groups in maleated poly(propylene carbonate). Polymer 2006, 47 (26), 8548-8555.
30	Chivrac, F.; Kadlecova, Z.; Pollet, E.; Averous, L., Aromatic copolyester-based nano-biocomposites: Elaboration, structural characterization and properties. *Journal of Polymers and the Environment* 2006, *14* (4), 393-401.
31	Gonzalez, I.; Eguiazabal, J. I.; Nazabal, J., New clay-reinforced nanocomposites based on a polycarbonate/polycaprolactone blend. *Polymer Engineering and Science* 2006, *46* (7), 864-873.
32	Chen, P.; Zhang, L., Interaction and properties of highly exfoliated soy protein/montmorillonite nanocomposites. *Biomacromolecules* 2006, *7* (6), 1700-1706.
33	Piglowski, J.; Kiersnowski, A.; Dolega, J., Preparation, structure and useful properties of poly(epsilon-caprolactone)/layered silicates nanocomposites. *Polimery* 2006, *51* (10), 704-715.

34	Katti, K. S.; Sikdar, D.; Katti, D. R.; Ghosh, P.; Verma, D., Molecular interactions in intercalated organically modified clay and clay-polycaprolactam nanocomposites: Experiments and modeling. *Polymer* 2006, *47* (1), 403-414.
35	Pollet, E.; Delcourt, C.; Alexandre, M.; Dubois, P., Organic-inorganic nanohybrids obtained by sequential copolymerization of epsilon-caprolactone and L,L-lactide from activated clay surface. *Macromolecular Chemistry and Physics* 2004, *205* (16), 2235-2244.
36	Pucciariello, R.; Villani, V.; Langerame, F.; Gorrasi, G.; Vittoria, V., Interfacial effects in organophilic montmorillonite-poly(epsilon-caprolactone) nanocomposites. *Journal of Polymer Science Part B-Polymer Physics* 2004, *42* (21), 3907-3919.
37	Hrobarikova, J.; Robert, J. L.; Calberg, C.; Jerome, R.; Grandjean, J., Solid-state NMR study of intercalated species in poly(epsilon-caprolactone)/clay nanocomposites. *Langmuir* 2004, *20* (22), 9828-9833.
38	McKenzie, L. C.; Hutchison, J. E., Green nanoscience. *Chimica Oggi-Chemistry Today* 2004, *22* (9), 30-33.
39	Gardebien, F.; Gaudel-Siri, A.; Bredas, J. L.; Lazzaroni, R., Molecular dynamics simulations of intercalated poly(epsilon-caprolactone)-montmorillonite clay nanocomposites. *Journal of Physical Chemistry B* 2004, *108* (30), 10678-10686.
40	Viville, P.; Lazzaroni, R.; Pollet, E.; Alexandre, M.; Dubois, P., Controlled polymer grafting on single clay nanoplatelets. *Journal of the American Chemical Society* 2004, *126* (29), 9007-9012.

25	**Dumitrascu, N.; Borcia, G.; Apetroaei, N.; Popa, G., Immobilization of biologically active species on PA-6 foils treated by a dielectric barrier discharge. *Journal of Applied Polymer Science* 2003, *90* (7), 1985-1990.**
1	Hawker, M. J.; Pegalajar-Jurado, A.; Fisher, E. R., Innovative Applications of Surface Wettability Measurements for Plasma-Modified Three-Dimensional Porous Polymeric Materials: A Review. *Plasma Processes and Polymers* 2015, *12* (9), 846-863.
2	Baican, M.; Paslaru, E.; Hitruc, E. G.; Vasile, C., ALBUMIN IMMOBILIZATION ON POLYVINYLIDENE FLUORIDE SURFACES. *Digest Journal of Nanomaterials and Biostructures* 2011, *6* (3), 1053-1064.
3	Pascu, M.; Duraccio, D.; Cimmino, S.; Vasile, C., Modification of PVDF properties by dielectric barrier discharge treatment. *E-Polymers* 2010.
4	Zhang, X.; Zhu, X.; Liang, M.; Lu, C., Improvement of the Properties of Ground Tire Rubber (GTR)-Filled Nitrile Rubber Vulcanizates Through Plasma Surface Modification of GTR Powder. *Journal of Applied Polymer Science* 2009, *114* (2), 1118-1125.
5	Pascu, M. C.; Popescu, M. C.; Vasile, C., Surface modifications of some nanocomposites containing starch. *Journal of Physics D-Applied Physics* 2008, *41* (17).
6	Dumitrascu, N.; Topala, I.; Popa, G., Dielectric barrier discharge technique in improving the wettability and adhesion properties of polymer surfaces. *Ieee Transactions on Plasma Science* 2005, *33* (5), 1710-1714.

7	El-Rehim, H. A.; Mostafa, T. B.; Bashindy, A. E., Radiation synthesis and characterization of maleic anhydride/acrylic acid copolymers and their heterocyclic compound derivatives for possible uses as antibacterial agents. Journal of Macromolecular Science-Pure and Applied Chemistry 2005, A42 (7), 853-867.

26	**Borcia, G.; Anderson, C. A.; Brown, N. M. D., Dielectric barrier discharge for surface treatment: application to selected polymers in film and fibre form. *Plasma Sources Science & Technology* 2003, *12* (3), 335-344.**
1	Dimitrakellis, P.; Zeniou, A.; Stratakos, Y.; Gogolides, E., Radio frequency atmospheric plasma source on a printed circuit board for large area, uniform processing of polymeric materials. *Plasma Sources Science & Technology* 2016, *25* (2).
2	Barjasteh, A.; Eslami, E.; Morshedian, N., Experimental investigation and numerical modeling of the effect of voltage parameters on the characteristics of low-pressure argon dielectric barrier discharges. *Physics of Plasmas* 2015, *22* (7).
3	Ameen, S.; Akhtar, M. S.; Seo, H.-K.; Nazeeruddin, M. K.; Shin, H.-S., An Insight into Atmospheric Plasma Jet Modified ZnO Quantum Dots Thin Film for Flexible Perovskite Solar Cell: Optoelectronic Transient and Charge Trapping Studies. Journal of Physical Chemistry C 2015, 119 (19), 10379-10390.
4	Wang, W.; Liu, F.; Wang, X.; Han, H.; Huang, Y.; Liang, R., Optical and electrical characteristics of air dielectric barrier discharges in mode transition at atmospheric pressure. *Plasma Sources Science & Technology* 2015, *24* (2).
5	Kim, S. J.; Zou, L.; Jones, B. G., An experimental study on sub-cooled flow boiling CHF of R134a at low pressure condition with atmospheric pressure (AP) plasma assisted surface modification. International Journal of Heat and Mass Transfer 2015, 81, 362-372.
6	Zhang, J.; Pizzi, A.; Lagel, M. C.; Du, G.; Zhou, X.; Wang, H., DIELECTRIC BARRIER DISCHARGE PLASMA AT ATMOSPHERIC PRESSURE TO ENHANCE PINE WOOD SURFACES HYDROPHILIC CHARACTER AND ADHESION PROPERTIES. *Wood Research* 2015, *60* (5), 773-781.
7	Cech, J.; Hanusova, J.; St'ahel, P.; Cernak, M., Diffuse Coplanar Surface Barrier Discharge in Artificial Air: Statistical Behaviour of Microdischarges. *Open Chemistry* 2015, *13* (1), 528-540.
8	Johnson, M. J.; Go, D. B., Ferroelectric crystals for the low-voltage operation of surface dielectric barrier discharges. *Applied Physics Letters* 2014, *105* (26).
9	Cools, P.; Van Vrekhem, S.; De Geyter, N.; Morent, R., The use of DBD plasma treatment and polymerization for the enhancement of biomedical UHMWPE. *Thin Solid Films* 2014, *572* , 251-259.
10	Liu, Y.; Su, C.; Ren, X.; Fan, C.; Zhou, W.; Wang, F.; Ding, W., Experimental study on surface modification of PET films under bipolar nanosecond-pulse dielectric barrier discharge in atmospheric air. *Applied Surface Science* 2014, *313* , 53-59.

11	Wedaa, H.; Abdel-salam, M.; Ahmed, A.; Mizuno, A., Two-dimensional modelling of dielectric barrier discharges using charge simulation technique-theory against experiment. *Iet Science Measurement & Technology* 2014, *8* (5), 285-293.
12	Novak, I.; Popelka, A.; Valentin, M.; Chodak, I.; Spirkova, M.; Toth, A.; Kleinova, A.; Sedliacik, J.; Lehocky, M.; Maronek, M., Surface Behavior of Polyamide 6 Modified by Barrier Plasma in Oxygen and Nitrogen. International Journal of Polymer Analysis and Characterization 2014, 19 (1), 31-38.
13	Jaganathan, S. K.; Mohandas, H.; Sivakumar, G.; Kasi, P.; Sudheer, T.; Veetil, S. A.; Murugesan, S.; Supriyanto, E., Enhanced Blood Compatibility of Metallocene Polyethylene Subjected to Hydrochloric Acid Treatment for Cardiovascular Implants. Biomed Research International 2014.
14	Liu, Z.; Chen, P.; Zhang, X.; Yu, Q., Degradation of plasma-treated poly(p-phenylene benzobisoxazole) fiber and its adhesion with bismaleimide resin. *Rsc Advances* 2014, *4* (8), 3893-3899.
15	Novak, I.; Popelka, A.; Luyt, A. S.; Chehimi, M. M.; Spirkova, M.; Janigova, I.; Kleinova, A.; Stopka, P.; Slouf, M.; Vanko, V.; Chodak, I.; Valentin, M., Adhesive properties of polyester treated by cold plasma in oxygen and nitrogen atmospheres. Surface & Coatings Technology 2013, 235, 407-416.
16	Liu, Z.; Chen, P.; Zhang, X.; Yu, Q.; Ma, K.; Ding, Z., Effects of surface modification by atmospheric oxygen dielectric barrier discharge plasma on PBO fibers and its composites. *Applied Surface Science* 2013, *283* , 38-45.
17	Niu, Z.; Zhang, C.; Shao, T.; Fang, Z.; Yu, Y.; Yan, P., Repetitive nanosecond-pulse dielectric barrier discharge and its application on surface modification of polymers. *Surface & Coatings Technology* 2013, *228* , S578-S582.
18	Chichti, E.; Henrion, G.; Cleymand, F.; Jamshidian, M.; Linder, M.; Arab-Tehrany, E., Effects of Ar-N-2-O-2 Microwave Plasma on Poly-L-Lactic Acid Thin Films Designed for Tissue Engineering. *Plasma Processes and Polymers* 2013, *10* (6), 535-543.
19	Xu, J.; Zhang, C.; Shao, T.; Fang, Z.; Yan, P., Formation of hydrophobic coating on PMMA surface using unipolar nanosecond-pulse DBD in atmospheric air. *Journal of Electrostatics* 2013, *71* (3), 435-439.
20	Kikani, P.; Desai, B.; Prajapati, S.; Arun, P.; Chauhan, N.; Nema, S. K., Comparison of low and atmospheric pressure air plasma treatment of polyethylene. *Surface Engineering* 2013, *29* (3), 211-221.
21	Wang, J.-C.; Leoni, N.; Birecki, H.; Gila, O.; Kushner, M. J., Characteristics of a radio-frequency micro-dielectric barrier discharge array. *Plasma Sources Science & Technology* 2013, *22* (2).
22	Taraballi, F.; Zanini, S.; Lupo, C.; Panseri, S.; Cunha, C.; Riccardi, C.; Marcacci, M.; Campione, M.; Cipolla, L., Amino and carboxyl plasma functionalization of collagen films for tissue engineering applications. Journal of Colloid and Interface Science 2013, 394, 590-597.
23	Thiyagarajan, M., A Portable Atmospheric Air Plasma Device for Biomedical Treatment Applications. *Journal of Medical Devices-Transactions of the Asme* 2013, *7* (1).
24	Radic, N.; Obradovic, B. M.; Kostic, M.; Dojcinovic, B.; Hudcova, M.; Kuraica, M. M.; Cernak, M., Deposition of Gold Nanoparticles on Polypropylene Nonwoven Pretreated by Dielectric Barrier Discharge and Diffuse Coplanar Surface Barrier Discharge. Plasma Chemistry and

25	Wang, J.-C.; Leoni, N.; Birecki, H.; Gila, O.; Kushner, M. J., Electron current extraction from radio frequency excited micro-dielectric barrier discharges. *Journal of Applied Physics* 2013, *113* (3).
26	Mohandas, H.; Sivakumar, G.; Kasi, P.; Jaganathan, S. K.; Supriyanto, E., Microwave-Assisted Surface Modification of Metallocene Polyethylene for Improving Blood Compatibility. *Biomed Research International* 2013.
27	Venkatraman, V.; Petremand, Y.; de Rooij, N.; Shea, H., Characterization and modelling of low-pressure rf discharges at 2-500 MHz for miniature alkali vapour dielectric barrier discharge lamps. *Journal of Physics D-Applied Physics* 2012, *45* (50).
28	Klenko, Y.; Pichal, J., TiOx Films Deposited by Plasma Enhanced Chemical Vapour Deposition Method in Atmospheric Dielectric Barrier Discharge Plasma. *Plasma Chemistry and Plasma Processing* 2012, *32* (6), 1215-1225.
29	Wang, C.; Zhang, G.; Wang, X.; Chen, Z., Surface Treatment of Polypropylene Films Using Dielectric Barrier Discharge with Magnetic Field. *Plasma Science & Technology* 2012, *14* (10), 891-896.
30	Tao, X.; Lu, R.; Li, H., Electrical Characteristics of Dielectric-Barrier Discharges in Atmospheric Pressure Air Using a Power-Frequency Voltage Source. *Plasma Science & Technology* 2012, *14* (8), 723-727.
31	Simon, A.; Dinu, O. E.; Papiu, M. A.; Tudoran, C. D.; Papp, J.; Anghel, S. D., A study of 1.74 MHz atmospheric pressure dielectric barrier discharge for non-conventional treatments. *Journal of Electrostatics* 2012, *70* (3), 235-240.
32	Walsh, J. L.; Iza, F.; Janson, N. B.; Kong, M. G., Chaos in atmospheric-pressure plasma jets. *Plasma Sources Science & Technology* 2012, *21* (3).
33	Odeyemi, F.; Pekker, M.; Rabinovich, A.; Fridman, A. A.; Heon, M.; Mochalin, V. N.; Gogotsi, Y., Low Temperature Plasma Reforming of Hydrocarbon Fuels Into Hydrogen and Carbon Suboxide for Energy Generation Without CO2 Emission. Ieee Transactions on Plasma Science 2012, 40 (5), 1362-1370.
34	Wang, Q.; Chen, P.; Jia, C.; Chen, M.; Li, B., Improvement of PBO fiber surface and PBO/PPESK composite interface properties with air DBD plasma treatment. *Surface and Interface Analysis* 2012, *44* (5), 548-553.
35	Vesel, A.; Mozetic, M., Surface modification and ageing of PMMA polymer by oxygen plasma treatment. *Vacuum* 2012, *86* (6), 634-637.
36	Dixon, D.; Meenan, B. J., Atmospheric Dielectric Barrier Discharge Treatments of Polyethylene, Polypropylene, Polystyrene and Poly(ethylene terephthalate) for Enhanced Adhesion. *Journal of Adhesion Science and Technology* 2012, *26* (20-21), 2325-2337.
37	Raju, K. R. C. S.; Sowntharya, L.; Lavanya, S.; Subasri, R., Effect of plasma pretreatment on adhesion and mechanical properties of sol-gel nanocomposite coatings on polycarbonate. *Composite Interfaces* 2012, *19* (3-4), 259-270.
38	Lei, J.; Li, Z.; Lu, X.; Wang, W.; Bian, X.; Zheng, T.; Xue, Y.; Wang, C., Controllable fabrication of porous free-standing polypyrrole films via a gas phase polymerization. *Journal of Colloid and Interface Science* 2011, *364* (2), 555-560.
39	Wang, Q.; Chen, P.; Jia, C.; Chen, M.; Li, B., Effects of air dielectric barrier discharge plasma treatment time on surface properties of PBO fiber. *Applied Surface Science* 2011, *258* (1), 513-520.

40	Kriegseis, J.; Moeller, B.; Grundmann, S.; Tropea, C., Capacitance and power consumption quantification of dielectric barrier discharge (DBD) plasma actuators. *Journal of Electrostatics* 2011, *69* (4), 302-312.
41	Qiu, X.; Wirges, W.; Gerhard, R., Beneficial and detrimental fatigue effects of dielectric barrier discharges on the piezoelectricity of polypropylene ferroelectrets. *Journal of Applied Physics* 2011, *110* (2).
42	Kriegseis, J.; Grundmann, S.; Tropea, C., Power consumption, discharge capacitance and light emission as measures for thrust production of dielectric barrier discharge plasma actuators. *Journal of Applied Physics* 2011, *110* (1).
43	Sewraj, N.; Merbahi, N.; Gardou, J. P.; Akerreta, P. R.; Marchal, F., Electric and spectroscopic analysis of a pure nitrogen mono-filamentary dielectric barrier discharge (MF-DBD) at 760 Torr. *Journal of Physics D-Applied Physics* 2011, *44* (14).
44	Russo, L.; Zanini, S.; Riccardi, C.; Nicotra, F.; Cipolla, L., Diazo transfer for azido-functional surfaces. *Materials Today* 2011, *14* (4), 164-169.
45	Fang, Z.; Wang, X.; Shao, R.; Qiu, Y.; Edmund, K., The effect of discharge power density on polyethylene terephthalate film surface modification by dielectric barrier discharge in atmospheric air. *Journal of Electrostatics* 2011, *69* (1), 60-66.
46	Meyer, C.; Mueller, S.; Gurevich, E. L.; Franzke, J., Dielectric barrier discharges in analytical chemistry. *Analyst* 2011, *136* (12), 2427-2440.
47	Prasertsung, I.; Mongkolnavin, R.; Damrongsakkul, S.; Wong, C. S., Surface modification of dehydrothermal crosslinked gelatin film using a 50 Hz oxygen glow discharge. *Surface & Coatings Technology* 2010, *205* , S133-S138.
48	Xu, J.; Zhong, P.; Li, J.; Lin, J.; Diao, Y.; Zhang, J., Characteristics of Coaxial Dielectric Barrier Discharge at an Atmospheric Pressure with a Swirling Gas Argon/Oxygen Mixture for the Surface Modification of Polyester Fiber Cord. Plasma Science & Technology 2010, 12 (5), 601-607.
49	Gorensek, M.; Gorjanc, M.; Bukosek, V.; Kovac, J.; Petrovic, Z.; Puac, N., Functionalization of Polyester Fabric by Ar/N-2 Plasma and Silver. *Textile Research Journal* 2010, *80* (16), 1633-1642.
50	Wang, K.; Wang, W.; Yang, D.; Huo, Y.; Wang, D., Surface modification of polypropylene non-woven fabric using atmospheric nitrogen dielectric barrier discharge plasma. *Applied Surface Science* 2010, *256* (22), 6859-6864.
51	Liu, F.; Huang, G.; Ganguly, B., Plasma excitation dependence on voltage slew rates in 10-200 Torr argon-nitrogen gas mixture DBD. *Plasma Sources Science & Technology* 2010, *19* (4).
52	De Geyter, N.; Morent, R.; Desmet, T.; Trentesaux, M.; Gengembre, L.; Dubruel, P.; Leys, C.; Payen, E., Plasma modification of polylactic acid in a medium pressure DBD. *Surface & Coatings Technology* 2010, *204* (20), 3272-3279.
53	D'Sa, R. A.; Burke, G. A.; Meenan, B. J., Protein adhesion and cell response on atmospheric pressure dielectric barrier discharge-modified polymer surfaces. *Acta Biomaterialia* 2010, *6* (7), 2609-2620.
54	Li, Y.-h.; Wu, Y.; Zhou, M.; Su, C.-b.; Zhang, X.-w.; Zhu, J.-q., Control of the corner separation in a compressor cascade by steady and unsteady plasma aerodynamic actuation. *Experiments in Fluids* 2010, *48* (6), 1015-1023.

55	Francois, S.; Sarra-Bournet, C.; Jaffre, A.; Chakfe, N.; Durand, B.; Laroche, G., Characterization of an air-spun poly(L-lactic acid) nanofiber mesh. *Journal of Biomedical Materials Research Part B-Applied Biomaterials* 2010, *93B* (2), 531-543.
56	Shao, T.; Zhang, C.; Long, K.; Zhang, D.; Wang, J.; Yan, P.; Zhou, Y., Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air. *Applied Surface Science* 2010, *256* (12), 3888-3894.
57	Ionita, M. D.; Teodorescu, M.; Stancu, C.; Stancu, E. C.; Ionita, E. R.; Moldovan, A.; Acsente, T.; Bazavan, M.; Dinescu, G., Surface modification of polymers at atmospheric pressure in expanding RF plasmas generated by planar dielectric barrier discharges. Journal of Optoelectronics and
58	Sarra-Bournet, C.; Poulin, S.; Piyakis, K.; Turgeon, S.; Laroche, G., ToF-SIMS multivariate characterization of surface modification of polymers by N-2-H-2 atmospheric pressure dielectric barrier discharge. Surface and Interface Analysis 2010, 42 (2), 102-109.
59	Simor, M.; Creyghton, Y.; Wypkema, A.; Zemek, J., The Influence of Surface DBD Plasma Treatment on the Adhesion of Coatings to High-Tech Textiles. *Journal of Adhesion Science and Technology* 2010, *24* (1), 77-97.
60	Sobczyk, A. T.; Jaworek, A., Carbon Deposit Formation in Normal-Pressure Electrical Discharges in Hydrocarbons. *Acta Physica Polonica A* 2009, *116* , S136-S138.
61	Ye, R.; Kagohashi, T.; Zheng, W., Investigation of surface treatment of conductive wire in cylindrical atmospheric pressure plasmas. *Thin Solid Films* 2009, *518* (3), 971-975.
62	Olenici-Craciunescu, S. B.; Michels, A.; Meyer, C.; Heming, R.; Tombrink, S.; Vautz, W.; Franzke, J., Characterization of a capillary dielectric barrier plasma jet for use as a soft ionization source by optical emission and ion mobility spectrometry. Spectrochimica Acta Part B-Atomic Spectroscopy 2009, 64 (11-12), 1253-1258.
63	Takke, V.; Behary, N.; Perwuelz, A.; Campagne, C., Studies on the Atmospheric Air-Plasma Treatment of PET (Polyethylene Terephtalate) Woven Fabrics: Effect of Process Parameters and of Aging. *Journal of Applied Polymer Science* 2009, *114* (1), 348-357.
64	Heming, R.; Michels, A.; Olenici, S. B.; Tombrink, S.; Franzke, J., Electrical generators driving microhollow and dielectric barrier discharges applied for analytical chemistry. *Analytical and Bioanalytical Chemistry* 2009, *395* (3), 611-618.
65	Luria, K.; Lavie, N.; Even, U., Dielectric barrier discharge source for supersonic beams. *Review of Scientific Instruments* 2009, *80* (10).
66	Cernak, M.; Cernakova, L.; Hudec, I.; Kovacik, D.; Zahoranova, A., Diffuse Coplanar Surface Barrier Discharge and its applications for in-line processing of low-added-value materials. *European Physical Journal-Applied Physics* 2009, *47* (2).
67	Leroux, F.; Campagne, C.; Perwuelz, A.; Gengembre, L., Atmospheric air plasma treatment of polyester textile materials. Textile structure influence on surface oxidation and silicon resin adhesion. Surface & Coatings Technology 2009, 203 (20-21), 3178-3183.
68	Avtaeva, S. V.; Skornyakov, A. V., Effect of nonlocal electron kinetics on the characteristics of a dielectric barrier discharge in xenon. *Plasma Physics Reports* 2009, *35* (7), 593-602.

69	Zhu, M.; Dai, L. Y.; Gu, N. S.; Cao, B.; Ouyang, L. Z., Synergism of mechanical milling and dielectric barrier discharge plasma on the fabrication of nano-powders of pure metals and tungsten carbide. Journal of Alloys and Compounds 2009, 478 (1-2), 624-629.
70	Grundmann, S.; Tropea, C., Experimental damping of boundary-layer oscillations using DBD plasma actuators. *International Journal of Heat and Fluid Flow* 2009, *30* (3), 394-402.
71	Fang, Z.; Hao, L.; Yang, H.; Xie, X.; Qiu, Y.; Edmund, K., Polytetrafluoroethylene surface modification by filamentary and homogeneous dielectric barrier discharges in air. *Applied Surface Science* 2009, *255* (16), 7279-7285.
72	Fang, Z.; Lin, J.; Yang, H.; Qiu, Y.; Kuffel, E., Polyethylene Terephthalate Surface Modification by Filamentary and Homogeneous Dielectric Barrier Discharges in Air. *Ieee Transactions on Plasma Science* 2009, *37* (5), 659-667.
73	Fang, Z.; Xie, X.; Li, J.; Yang, H.; Qiu, Y.; Kuffel, E., Comparison of surface modification of polypropylene film by filamentary DBD at atmospheric pressure and homogeneous DBD at medium pressure in air. *Journal of Physics D-Applied Physics* 2009, *42* (8).
74	Teodoru, S.; Kusano, Y.; Rozlosnik, N.; Michelsen, P. K., Continuous Plasma Treatment of Ultra-High-Molecular-Weight Polyethylene (UHMWPE) Fibres for Adhesion Improvement. *Plasma Processes and Polymers* 2009, *6* , S375-S381.
75	Yaman, N.; Oezdogan, E.; Kocum, I. C.; Ayhan, H.; Oektem, T.; Seventekin, N., IMPROVEMENT SURFACE PROPERTIES OF POLYPROPYLENE AND POLYESTER FABRICS BY GLOW DISCHARGE PLASMA SYSTEM UNDER ATMOSPHERIC CONDITION. *Tekstil Ve Konfeksiyon* 2009, *19* (1), 45-51.
76	Vesel, A., XPS STUDY OF SURFACE MODIFICATION OF DIFFERENT POLYMER MATERIALS BY OXYGEN PLASMA TREATMENT. *Informacije Midem-Journal of Microelectronics Electronic Components and Materials* 2008, *38* (4), 257-265.
77	Vesel, A.; Junkar, I.; Cvelbar, U.; Kovac, J.; Mozetic, M., Surface modification of polyester by oxygen- and nitrogen-plasma treatment. *Surface and Interface Analysis* 2008, *40* (11), 1444-1453.
78	Ren, Y.; Hong, Y.; Sun, J.; Qiu, Y., Influence of treatment duration on hydrophobic recovery of plasma-treated ultrahigh modulus polyethylene fiber surfaces. *Journal of Applied Polymer Science* 2008, *110* (2), 995-1001.
79	Forde, E.; Guiney, I.; Arshak, K.; Adley, C.; Barry, C.; Jordan, K., Theoretical and Experimental Considerations for Bacteria Sterilization Using a Novel Multielectrode Dielectric-Barrier Discharge System. Ieee Transactions on Plasma Science 2008, 36 (5), 2805-2815.
80	Morent, R.; De Geyter, N.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Surface treatment of a polypropylene film with a nitrogen DBD at medium pressure. *European Physical Journal-Applied Physics* 2008, *43* (3), 289-294.
81	Xi, M.; Li, Y.-L.; Shang, S.-y.; Li, D.-H.; Yin, Y.-X.; Dai, X.-Y., Surface modification of aramid fiber by air DBD plasma at atmospheric pressure with continuous on-line processing. *Surface & Coatings Technology* 2008, *202* (24), 6029-6033.
82	Graz, I.; Ebner, A.; Bauer, S.; Romanin, C.; Gruber, H., Micropatterned atmospheric pressure discharge surface modification of fluorinated polymer films for mammalian cell adhesion and protein binding. Applied Physics a-Materials Science & Processing 2008, 92 (3), 547-555.

83	Deng, S.; Cheng, C.; Ni, G.; Meng, Y.; Chen, H., Bacterial Inactivation by Atmospheric Pressure Dielectric Barrier Discharge Plasma Jet. *Japanese Journal of Applied Physics* 2008, *47* (8), 7009-7012.
84	Morent, R.; De Geyter, N.; Leys, C., Effects of operating parameters on plasma-induced PET surface treatment. *Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms* 2008, *266* (12-13), 3081-3085.
85	Grundmann, S.; Tropea, C., Active cancellation of artificially introduced Tollmien-Schlichting waves using plasma actuators. *Experiments in Fluids* 2008, *44* (5), 795-806.
86	Morent, R.; De Geyter, N.; Verschuren, J.; De Clerck, K.; Kiekens, P.; Leys, C., Non-thermal plasma treatment of textiles. *Surface & Coatings Technology* 2008, *202* (14), 3427-3449.
87	Lecoq, E.; Clement, F.; Panousis, E.; Loiseau, J. F.; Held, B.; Castetbon, A.; Guimon, C., Pinus Pinaster surface treatment realized in spatial and temporal afterglow DBD conditions. *European Physical Journal-Applied Physics* 2008, *42* (1), 47-53.
88	Bhoj, A. N.; Kushner, M. J., Continuous processing of polymers in repetitively pulsed atmospheric pressure discharges with moving surfaces and gas flow. *Journal of Physics D-Applied Physics* 2007, *40* (22), 6953-6968.
89	Wang, C. X.; Ren, Y.; Qiu, Y. P., Penetration depth of atmospheric pressure plasma surface modification into multiple layers of polyester fabrics. *Surface & Coatings Technology* 2007, *202* (1), 77-83.
90	Michels, A.; Tombrink, S.; Vautz, W.; Miclea, M.; Franzke, J., Spectroscopic characterization of a microplasma used as ionization source for ion mobility spectrometry. *Spectrochimica Acta Part B-Atomic Spectroscopy* 2007, *62* (11), 1208-1215.
91	Fang, Z.; Qiu, Y.; Wang, H.; Kuffel, E., Improving Hydrophobicity of glass surface using dielectric barrier discharge treatment in atmospheric air. *Plasma Science & Technology* 2007, *9* (5), 582-586.
92	Martens, T.; Bogaerts, A.; Brok, W.; van Dijk, J., Computer simulations of a dielectric barrier discharge used for analytical spectrometry. *Analytical and Bioanalytical Chemistry* 2007, *388* (8), 1583-1594.
93	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Surface modification of non-woven textiles using a dielectric barrier discharge operating in air, helium and argon at medium pressure. *Textile Research Journal* 2007, *77* (7), 471-488.
94	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Study of the ageing behaviour of polymer films treated with a dielectric barrier discharge in air, helium and argon at medium pressure. *Surface & Coatings Technology* 2007, *201* (18), 7847-7854.
95	Danish, N.; Garg, M. K.; Rane, R. S.; Jhala, P. B.; Nema, S. K., Surface modification of Angora rabbit fibers using dielectric barrier discharge. *Applied Surface Science* 2007, *253* (16), 6915-6921.
96	De Geyter, N.; Morent, R.; Leys, C.; Gengembre, L.; Payen, E., Treatment of polymer films with a dielectric barrier discharge in air, helium and argon at medium pressure. *Surface & Coatings Technology* 2007, *201* (16-17), 7066-7075.

97	Panousis, E.; Clement, F.; Loiseau, J. F.; Spyrou, N.; Held, B.; Larrieu, J.; Lecoq, E.; Guimon, C., Titanium alloy surface treatment using an atmospheric plasma jet in nitrogen pulsed discharge conditions. Surface & Coatings Technology 2007, 201 (16-17), 7292-7302.
98	Grundmann, S.; Tropea, C., Experimental transition delay using glow-discharge plasma actuators. *Experiments in Fluids* 2007, *42* (4), 653-657.
99	Vincent-Randonnier, A.; Larigaldie, S.; Magre, P.; Sabel'nikov, V., Plasma assisted combustion: effect of a coaxial DBD on a methane diffusion flame. *Plasma Sources Science & Technology* 2007, *16* (1), 149-160.
100	De Geyter, N.; Morent, R.; Leys, C., Surface modification of a polyester non-woven with a dielectric barrier discharge in air at medium pressure. *Surface & Coatings Technology* 2006, *201* (6), 2460-2466.
101	Williamson, J. M.; Trump, D. D.; Bletzinger, P.; Ganguly, B. N., Comparison of high-voltage ac and pulsed operation of a surface dielectric barrier discharge. *Journal of Physics D-Applied Physics* 2006, *39* (20), 4400-4406.
102	Fang, Z.; Qiu, X.; Qiu, Y.; Kuffel, E., Dielectric barrier discharge in atmospheric air for class-surface treatment to enhance hydrophobicity. *Ieee Transactions on Plasma Science* 2006, *34* (4), 1216-1222.
103	Zhu, Z.; Zhang, S.; Xue, J.; Zhang, X., Application of atmospheric pressure dielectric barrier discharge plasma for the determination of Se, Sb and Sn with atomic absorption spectrometry. Spectrochimica Acta Part B-Atomic Spectroscopy 2006, 61 (8), 916-921.
104	Cheng, C.; Zhang, L.; Zhan, R.-J., Surface modification of polymer fibre by the new atmospheric pressure cold plasma jet. *Surface & Coatings Technology* 2006, *200* (24), 6659-6665.
105	Xu, X.; Ou, Q.; Zhong, S.; Shu, X.; Meng, Y., Electrical characteristics of pseudoglow discharges in helium under atmospheric pressure. *Plasma Science & Technology* 2006, *8* (3), 303-306.
106	Bhoj, A. N.; Kushner, M. J., Multi-scale simulation of functionalization of rough polymer surfaces using atmospheric pressure plasmas. *Journal of Physics D-Applied Physics* 2006, *39* (8), 1594-1598.
107	Zhu, Z. L.; Zhang, S. C.; Lv, Y.; Zhang, X. R., Atomization of hydride with a low-temperature, atmospheric pressure dielectric barrier discharge and its application to arsenic speciation with atomic absorption spectrometry. Analytical Chemistry 2006, 78 (3), 865-872.
108	De Geyter, N.; Morent, R.; Leys, C., Penetration of a dielectric barrier discharge plasma into textile structures at medium pressure. *Plasma Sources Science & Technology* 2006, *15* (1), 78-84.
109	Borra, J. P., Nucleation and aerosol processing in atmospheric pressure electrical discharges: powders production, coatings and filtration. *Journal of Physics D-Applied Physics* 2006, *39* (2), R19-R54.
110	Serdyuk, Y. V.; Gubanski, S. M., Computer modeling of interaction of gas discharge plasma with solid dielectric barriers. *Ieee Transactions on Dielectrics and Electrical Insulation* 2005, *12* (4), 725-735.

111	Okpalugo, T. I. T.; Papakonstantinou, P.; Murphy, H.; McLaughlin, J.; Brown, N. M. D.; McNally, T., Surface-to-depth analysis of functionalized multi-wall carbon nanotubes (FMWCNTS). *Fullerenes Nanotubes and Carbon Nanostructures* 2005, *13* , 477-484.
112	Upadhyay, D. J.; Cui, N. Y.; Anderson, C. A.; Brown, N. M. D., Surface recovery and degradation of air dielectric barrier discharge processed poly(methyl methacrylate) and poly(ether ether ketone) films. Polymer Degradation and Stability 2005, 87 (1), 33-41.
113	Kogelschatz, U., Atmospheric-pressure plasma technology. *Plasma Physics and Controlled Fusion* 2004, *46* , B63-B75.
114	Fang, Z.; Qiu, Y.; Kuffel, E., Formation of hydrophobic coating on glass surface using atmospheric pressure non-thermal plasma in ambient air. *Journal of Physics D-Applied Physics* 2004, *37* (16), 2261-2266.
115	Scott, S. J.; Figgures, C. C.; Dixon, D. G., Dielectric barrier discharge processing of aerospace materials. *Plasma Sources Science & Technology* 2004, *13* (3), 461-465.

27	**Viville, P.; Lazzaroni, R.; Dubois, P.; Kotzev, A.; Geerts, Y.; Borcia, G.; Pireaux, J. J., Impact of silicone-based block copolymer surfactants on the surface and bulk microscopic organization of a biodegradable polymer, poly(epsilon-caprolactone). *Biomacromolecules* 2003, *4* (3), 696-**
1	Pourcelle, V.; Devouge, S.; Garinot, M.; Preat, V.; Marchand-Brynaert, J., PCL-PEG-Based nanoparticles grafted with GRGDS peptide: Preparation and surface analysis by XPS. *Biomacromolecules* 2007, *8* (12), 3977-3983.
2	Lu, Y. Y.; Hu, Y. L.; Chung, T. C. M., Syntheses of diblock copolymers polyolefin-b-poly(epsilon-caprolactone) and their applications as the polymeric compatilizer. *Polymer* 2005, *46* (23), 10585-10591.
3	Seki, K.; Lee, Y.; Akiba, I.; Akiyama, S., Surface enrichment and bulk morphology in mixtures of poly(methyl methacrylate) with poly(dimethylsiloxane). *Polymer Journal* 2004, *36* (7), 556-559.

28	**Dumitrascu, N.; Borcia, G.; Apetroaei, N.; Popa, G., Roughness modification of surfaces treated by a pulsed dielectric barrier discharge. *Plasma Sources Science & Technology* 2002, *11* (2), 127-134.**
1	Abou Rich, S.; Leroy, P.; Dufour, T.; Wehbe, N.; Houssiau, L.; Reniers, F., In-depth diffusion of oxygen into LDPE exposed to an Ar-O-2 atmospheric post-discharge: a complementary approach between AR-XPS and Tof-SIMS techniques. Surface and Interface Analysis 2014, 46 (3), 164-174.
2	Tang, J.; Jiang, W.; Zhao, W.; Wang, Y.; Li, S.; Wang, H.; Duan, Y., Development of a diffuse air-argon plasma source using a dielectric-barrier discharge at atmospheric pressure. *Applied Physics Letters* 2013, *102* (3).

3	Taghvaei, H.; Shirazi, M. M.; Hooshmand, N.; Rahimpour, M. R.; Jahanmiri, A., Experimental investigation of hydrogen production through heavy naphtha cracking in pulsed DBD reactor. *Applied Energy* 2012, *98* , 3-10.
4	Jia, C.; Chen, P.; Wang, Q.; Li, B.; Chen, M., Wetting and adhesion behavior of armos fibers after dielectric barrier discharge plasma treatment. *Journal of Applied Polymer Science* 2012, *125* (1), 433-438.
5	Seok, D. C.; Lho, T.; Yoo, S. R.; Hong, Y. C.; Lee, B. J., Study for amorphous silicon etching process using dielectric barrier discharge. *Thin Solid Films* 2011, *519* (20), 6858-6862.
6	Tang, J.; Duan, Y.; Zhao, W., Characterization and mechanism studies of dielectric barrier discharges generated at atmospheric pressure. *Applied Physics Letters* 2010, *96* (19).
7	Shao, T.; Zhang, C.; Long, K.; Zhang, D.; Wang, J.; Yan, P.; Zhou, Y., Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air. *Applied Surface Science* 2010, *256* (12), 3888-3894.
8	Pascu, M.; Duraccio, D.; Cimmino, S.; Vasile, C., Modification of PVDF properties by dielectric barrier discharge treatment. *E-Polymers* 2010.
9	Rogojanu, A.; Rusu, E.; Dorohoi, D. O., Characterization of Structural Modifications Induced on Poly(Vinyl Alcohol) Surface by Atmospheric Pressure Plasma. *International Journal of Polymer Analysis and Characterization* 2010, *15* (4), 210-221.
10	Xi, Z.-Y.; Xu, Y.-Y.; Zhu, L.-P.; Zhu, B.-K., Modification of polytetrafluoroethylene porous membranes by electron beam initiated surface grafting of binary monomers. *Journal of Membrane Science* 2009, *339* (1-2), 33-38.
11	Fang, Z.; Hao, L.; Yang, H.; Xie, X.; Qiu, Y.; Edmund, K., Polytetrafluoroethylene surface modification by filamentary and homogeneous dielectric barrier discharges in air. *Applied Surface Science* 2009, *255* (16), 7279-7285.
12	Fang, Z.; Xie, X.; Li, J.; Yang, H.; Qiu, Y.; Kuffel, E., Comparison of surface modification of polypropylene film by filamentary DBD at atmospheric pressure and homogeneous DBD at medium pressure in air. *Journal of Physics D-Applied Physics* 2009, *42* (8).
13	Xi, Z.-Y.; Xu, Y.-Y.; Zhu, L.-P.; Liu, F.; Zhu, B.-K., Studies on surface grafting of AAc/SSS binary monomers onto polytetrafluoroethylene by dielectric barrier discharge initiation. *Applied Surface Science* 2008, *254* (22), 7469-7476.
14	Yuji, T.; Urayama, T.; Fujii, S.; Mungkung, N.; Akatsuka, H., Temperature behavior of atmospheric-pressure non-equilibrium microwave discharge plasma jets for poly(ethylene naptharate)-surface processing. Surface & Coatings Technology 2008, 202 (22-23), 5289-5292.
15	De Geyter, N.; Morent, R.; Gengembre, L.; Leys, C.; Payen, E.; Van Vlierberghe, S.; Schacht, E., Increasing the hydrophobicity of a PP film using a helium/CF4 DBD treatment at atmospheric pressure. Plasma Chemistry and Plasma Processing 2008, 28 (2), 289-298.
16	Topala, I.; Dumitrascu, N., Dynamics of the wetting process on dielectric barrier discharge (DBD)-treated wood surfaces. *Journal of Adhesion Science and Technology* 2007, *21* (11), 1089-1096.

17	Tong, W.; Lu, C.; Cai, Y.; Huang, Y., Surface modification of fluororubber using atmospheric pressure dielectric barrier discharge (DBD). *Plasma Science & Technology* 2007, *9* (3), 296-300.
18	Gaman, S.; Morosanu, C.; Dumitrache, F.; Apetroaei, N.; Yastrebov, S., Diamond and polymeric-like films prepared by PECVD method. *Journal of Optoelectronics and Advanced Materials* 2007, *9* (5), 1450-1453.
19	Araya, M.; Yuji, T.; Watanabe, T.; Kashihara, J.; Sumida, Y., Application to cleaning of waste plastic surfaces using atmospheric non-thermal plasma jets. *Thin Solid Films* 2007, *515* (9), 4301-4307.
20	Dumitrascu, N.; Borcia, C., Adhesion properties of polyamide-6 fibres treated by dielectric barrier discharge. *Surface & Coatings Technology* 2006, *201* (3-4), 1117-1123.
21	Dumitrascu, N.; Borcia, C., Determining the contact angle between liquids and cylindrical surfaces. *Journal of Colloid and Interface Science* 2006, *294* (2), 418-422.
22	Dumitrascu, N.; Topala, I.; Popa, G., Dielectric barrier discharge technique in improving the wettability and adhesion properties of polymer surfaces. *Ieee Transactions on Plasma Science* 2005, *33* (5), 1710-1714.
23	Melnig, V.; Apetroaei, N.; Dumitrascu, N.; Suzuki, Y.; Tura, V., Improvement of polyurethane surface biocompatibility by plasma and ton beam techniques. *Journal of Optoelectronics and Advanced Materials* 2005, *7* (5), 2521-2528.
24	Fang, Z.; Qiu, Y. C.; Wang, H., Surface treatment of polyethylene terephthalate film using atmospheric pressure glow discharge in air. *Plasma Science & Technology* 2004, *6* (6), 2576-2580.
25	Fang, Z.; Qiu, Y.; Kuffel, E., Formation of hydrophobic coating on glass surface using atmospheric pressure non-thermal plasma in ambient air. *Journal of Physics D-Applied Physics* 2004, *37* (16), 2261-2266.
26	Fang, Z.; Qiu, Y.; Luo, Y., Surface modification of polytetrafluoroethylene film using the atmospheric pressure glow discharge in air. *Journal of Physics D-Applied Physics* 2003, *36* (23), 2980-2985.

29	**Dumitrascu, N.; Borcia, G.; Popa, G., Corona discharge treatments of plastified PVC samples used in biological environment. *Journal of Applied Polymer Science* 2001, *81* (10), 2419-2425.**
1	Pascu, M.; Duraccio, D.; Cimmino, S.; Vasile, C., Modification of PVDF properties by dielectric barrier discharge treatment. *E-Polymers* 2010.
2	Pascu, M. C.; Popescu, M. C.; Vasile, C., Surface modifications of some nanocomposites containing starch. *Journal of Physics D-Applied Physics* 2008, *41* (17).
3	Deng, H. P.; Yang, W. T., Grafting copolymerization of styrene and maleic anhydride binary monomer systems induced by UV irradiation. *European Polymer Journal* 2005, *41* (11), 2685-2692.

30	**Arefi-Khonsari, F.; Placinta, G.; Amouroux, J.; Popa, G., Study of plasmas in He-O-2 mixtures and their role on the stability of the surface properties of polymers. *European Physical Journal-Applied Physics* 1998, *4* (2), 193-201.**
1	Tamargo-Martinez, K.; Martinez-Alonso, A.; Gracia, M.; Paredes, J. I.; Tascon, J. M. D.; Montes-Moran, M. A., Tailoring of the interfacial properties of polymeric single fibre-reinforced epoxy composites by non-oxidative plasma treatments. Composites Part a-Applied Science and Manufacturing 2013, 50, 102-109.
2	Hubert, J.; Dufour, T.; Vandencasteele, N.; Desbief, S.; Lazzaroni, R.; Reniers, F., Etching Processes of Polytetrafluoroethylene Surfaces Exposed to He and He-O-2 Atmospheric Post-discharges. *Langmuir* 2012, *28* (25), 9466-9474.
3	Lei, M. K.; Liu, Y.; Li, Y. P., Controllable wettability of poly(ethylene terephthlate) film modified by oxygen combined inductively and capacitively coupled radio-frequency plasma. *Applied Surface Science* 2011, *257* (16), 7350-7358.
4	Shin, Y.; Yoo, D. I., Surface characterization of PET nonwoven fabric treated by He/O-2 atmospheric pressure plasma. *Journal of Applied Polymer Science* 2008, *108* (2), 785-790.
5	Snyders, R.; Zabeida, O.; Roberges, C.; Shingel, K. I.; Faure, M.-P.; Martinu, L.; Klemberg-Sapieha, J. E., Mechanism of adhesion between protein-based hydrogels and plasma treated polypropylene backing. *Surface Science* 2007, *601* (1), 112-122.
6	Shin, Y.; Son, K.; Il Yoo, D.; Hudson, S.; McCord, M.; Matthews, S.; Whang, Y. J., Functional finishing of nonwoven fabrics. I. Accessibility of surface modified PET spunbond by atmospheric pressure He/O-2 plasma treatment. Journal of Applied Polymer Science 2006, 100 (6), 4306-4310.
7	Ardelean, H.; Petit, S.; Laurens, P.; Marcus, P.; Arefi-Khonsari, F., Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies. Applied Surface Science 2005, 243 (1-4), 304-318.
8	Svarnas, P.; Spyrou, N.; Held, B., Polystyrene thin films treatment under DC point-to-plane low-pressure discharge in nitrogen for improving wettability. *European Physical Journal-Applied Physics* 2004, *28* (1), 105-112.
9	Laurens, P.; Petit, S.; Arefi-Khonsari, F., Study of PET surfaces after laser or plasma treatment: Surface modifications and adhesion properties towards Al deposition. *Plasmas and Polymers* 2003, *8* (4), 281-295.
10	Hu, J. J.; Yin, C.; Mao, H. Q.; Tamada, K.; Knoll, W. G., Functionalization of poly(ethylene terephthalate) film hy pulsed plasma deposition of maleic anhydride. *Advanced Functional Materials* 2003, *13* (9), 692-697.
11	Clement, F.; Held, B.; Soulem, N.; Martinez, A., A study on the aging process of polystyrene thin films treated under DC pulsed discharges conditions in oxygen and argon-oxygen mixtures. *European Physical Journal-Applied Physics* 2003, *21* (1), 59-66.
12	Petit, S.; Laurens, P.; Barthes-Labrousse, M. G.; Amouroux, J.; Arefi-Khonsari, F., Al/PET adhesion: role of an excimer laser pretreatment of PET prior to aluminum thermal evaporation. *Journal of Adhesion Science and Technology* 2003, *17* (3), 353-368.

13	Grace, J. M.; Gerenser, L. J., Plasma treatment of polymers. *Journal of Dispersion Science and Technology* 2003, *24* (3-4), 305-341.
14	Clement, F.; Held, B.; Soulem, N.; Guimon, C., XPS analyses of polystyrene thin films treated under DC pulsed discharges conditions in nitrogen, oxygen and oxygen-argon mixtures. *European Physical Journal-Applied Physics* 2002, *18* (2), 135-151.
15	Clement, F.; Held, B.; Soulem, N., Polystyrene thin films treatment under DC pulsed discharges conditions in nitrogen-argon and oxygen-argon mixtures. *European Physical Journal-Applied Physics* 2002, *17* (2), 119-130.
16	Clement, F.; Held, B.; Soulem, N., Polystyrene thin films treatment under DC pulsed discharges conditions in oxygen. *European Physical Journal-Applied Physics* 2001, *16* (2), 141-147.
17	Clement, F.; Held, B.; Soulem, N.; Spyrou, N., Polystyrene thin films treatment under DC pulsed discharges conditions in nitrogen. *European Physical Journal-Applied Physics* 2001, *13* (1), 67-73.

31	**Placinta, G.; ArefiKhonsari, F.; Gheorghiu, M.; Amouroux, J.; Popa, G., Surface properties and the stability of poly(ethylene terephthalate) films treated in plasmas of helium-oxygen mixtures. *Journal of Applied Polymer Science* 1997, *66* (7), 1367-1375.**
1	Wang, C. X.; Lv, J. C.; Ren, Y.; Zhi, T.; Chen, J. Y.; Zhou, Q. Q.; Lu, Z. Q.; Gao, D. W.; Jin, L. M., Surface modification of polyester fabric with plasma pretreatment and carbon nanotube coating for antistatic property improvement. Applied Surface Science 2015, 359, 196-203.
2	Aflori, M.; Miron, C.; Dobromir, M.; Drobota, M., Bactericidal effect on Foley catheters obtained by plasma and silver nitrate treatments. *High Performance Polymers* 2015, *27* (5), 655-660.
3	Aflori, M., POLYLACTIC ACID CONTAINING SILVER PARTICLES. *Revue Roumaine De Chimie* 2015, *60* (7-8), 817-821.
4	Sun, J.; Qiu, Y., The Effects of Gas Composition on the Atmospheric Pressure Plasma Jet Modification of Polyethylene Films. *Plasma Science & Technology* 2015, *17* (5), 402-408.
5	Haji, A.; Rahbar, R. S.; Shoushtari, A. M., Improved microwave shielding behavior of carbon nanotube-coated PET fabric using plasma technology. *Applied Surface Science* 2014, *311* , 593-601.
6	Contini, C.; Katsikogianni, M. G.; O'Neill, F. T.; O'Sullivan, M.; Boland, F.; Dowling, D. P.; Monahan, F. J., Storage Stability of an Antioxidant Active Packaging Coated with Citrus Extract Following a Plasma Jet Pretreatment. Food and Bioprocess Technology 2014, 7 (8), 2228-2240.
7	Lee, S.; Byun, E.-Y.; Kim, J.-K.; Kim, D.-G., Ar and O-2 linear ion beam PET treatments using an anode layer ion source. *Current Applied Physics* 2014, *14* , S180-S182.
8	Mirjalili, M.; Karimi, L., The impact of nitrogen low temperature plasma treatment upon the physical-chemical properties of polyester fabric. *Journal of the Textile Institute* 2013, *104* (1), 98-107.

9	Homola, T.; Matousek, J.; Hergelova, B.; Kormunda, M.; Wu, L. Y. L.; Cernak, M., Activation of poly(ethylene terephthalate) surfaces by atmospheric pressure plasma. *Polymer Degradation and Stability* 2012, *97* (11), 2249-2254.
10	Casimiro, J.; Lepoittevin, B.; Boisse-Laporte, C.; Barthes-Labrousse, M.-G.; Jegou, P.; Brisset, F.; Roger, P., Introduction of Primary Amino Groups on Poly(ethylene terephthalate) Surfaces by Ammonia and a Mix of Nitrogen and Hydrogen Plasma. Plasma Chemistry and Plasma Processing 2012, 32 (2), 305-323.
11	Lopez-Santos, C.; Yubero, F.; Cotrino, J.; Gonzalez-Elipe, A. R., Lateral and in-depth distribution of functional groups on diamond-like carbon after oxygen plasma treatments. *Diamond and Related Materials* 2011, *20* (2), 49-56.
12	Pascu, M.; Duraccio, D.; Cimmino, S.; Vasile, C., Modification of PVDF properties by dielectric barrier discharge treatment. *E-Polymers* 2010.
13	Razic, S. E.; Cunko, R., Modification of Textile Properties Using Plasma. *Tekstil* 2009, *58* (3), 55-74.
14	Chiper, A. S.; Nastuta, A. V.; Rusu, G. B.; Popa, G., On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge. Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms 2009, 267 (2), 313-316.
15	Chiper, A. S.; Cazan, R.; Popa, G., On the Secondary Discharge of an Atmospheric-Pressure Pulsed DBD in He with Impurities. *Ieee Transactions on Plasma Science* 2008, *36* (5), 2824-2830.
16	Katsikogianni, M.; Amanatides, E.; Mataras, D.; Missirlis, Y. F., Staphylococcus epidermidis adhesion to He, He/O-2 plasma treated PET films and aged materials: Contributions of surface free energy and shear rate. Colloids and Surfaces B-Biointerfaces 2008, 65 (2), 257-268.
17	Shin, Y.; Yoo, D. I., Surface characterization of PET nonwoven fabric treated by He/O-2 atmospheric pressure plasma. *Journal of Applied Polymer Science* 2008, *108* (2), 785-790.
18	Chiper, A. S.; Nastuta, A.; Rusu, G.; Popa, G., Electrical characterisation of a double DBD in He at atmospheric pressure used for surface treatments. *Journal of Optoelectronics and Advanced Materials* 2007, *9* (9), 2926-2931.
19	Hossain, M. M.; Hegemann, D.; Fortunato, G.; Herrmann, A. S.; Heuberger, M., Plasma deposition of permanent superhydrophilic a-C : H : N films on textiles. *Plasma Processes and Polymers* 2007, *4* (4), 471-481.
20	Wafa, D. M.; Breidt, F.; Gawish, S. M.; Matthews, S. R.; Donohue, K. V.; Roe, R. M.; Bourham, M. A., Atmospheric plasma-aided biocidal finishes for nonwoven polypropylene fabrics. II. Functionality of synthesized fabrics. Journal of Applied Polymer Science 2007, 103 (3), 1911-1917.
21	Gawish, S. M.; Ramadan, A. M.; Cornelius, C. E.; Bourham, M. A.; Matthews, S. R.; McCord, M. G.; Wafa, D. M.; Breidt, F., New functionalities of PA6,6 fabric modified by atmospheric pressure plasma and grafted glycidyl methacrylate derivatives. Textile Research Journal 2007, 77 (2), 92-104.

22	Shin, Y.; Son, K.; Il Yoo, D.; Hudson, S.; McCord, M.; Matthews, S.; Whang, Y. J., Functional finishing of nonwoven fabrics. I. Accessibility of surface modified PET spunbond by atmospheric pressure He/O-2 plasma treatment. Journal of Applied Polymer Science 2006, 100 (6), 4306-4310.
23	Almazan-Almazan, M. C.; Paredes, J. I.; Perez-Mendoza, M.; Domingo-Garcia, M.; Fernandez-Morales, I.; Martinez-Alonso, A.; Lopez-Garzon, F. J., Surface characteristics of activated carbons obtained by pyrolysis of plasma pretreated PET. Journal of Physical Chemistry B 2006, 110 (23), 11327-11333.
24	Hossain, M. M.; Herrmann, A. S.; Hegemann, D., Plasma hydrophilization effect on different textile structures. *Plasma Processes and Polymers* 2006, *3* (3), 299-307.
25	Almazan-Almazan, M. C.; Paredes, J. I.; Perez-Mendoza, M.; Dominco-Garcia, M.; Lopez-Garzon, F. J.; Martinez-Alonso, A.; Tascon, J. M. D., Surface characterisation of plasma-modified poly(ethylene terephthalate). Journal of Colloid and Interface Science 2006, 293 (2), 353-363.
26	Lee, D.; Hong, S. H.; Paek, K. H.; Ju, W. T., Adsorbability enhancement of activated carbon by dielectric barrier discharge plasma treatment. *Surface & Coatings Technology* 2005, *200* (7), 2277-2282.
27	Hwang, Y. J.; McCord, M. G.; An, J. S.; Kang, B. C.; Park, S. W., Effects of helium atmospheric pressure plasma treatment on low-stress mechanical properties of polypropylene nonwoven fabrics. *Textile Research Journal* 2005, *75* (11), 771-778.
28	Chiper, A. S.; Apetroaei, N.; Popa, G., Correlation between surface modifications induced on PET/TiO2 sample by DBD plasma produced in He/N-2 gas mixture and plasma parameters. *Journal of Optoelectronics and Advanced Materials* 2005, *7* (5), 2561-2570.
29	Liao, J. D.; Chen, C. Y.; Wu, Y. T.; Weng, C. C., Hydrophilic treatment of the dyed nylon-6 fabric using high-density and extensible antenna-coupling microwave plasma system. *Plasma Chemistry and Plasma Processing* 2005, *25* (3), 255-273.
30	Ardelean, H.; Petit, S.; Laurens, P.; Marcus, P.; Arefi-Khonsari, F., Effects of different laser and plasma treatments on the interface and adherence between evaporated aluminium and polyethylene terephthalate films: X-ray photoemission, and adhesion studies. Applied Surface Science 2005, 243 (1-4), 304-318.
31	Matthews, S. R.; Hwang, Y. J.; McCord, M. G.; Bourham, M. A., Investigation into etching mechanism of polyethylene terephthalate (PET) films treated in helium and oxygenated-helium atmospheric plasmas. Journal of Applied Polymer Science 2004, 94 (6), 2383-2389.
32	Hwang, Y. J.; Matthews, S.; McCord, M.; Bourham, M., Surface modification of organic polymer films treated in atmospheric plasmas. *Journal of the Electrochemical Society* 2004, *151* (7), C495-C501.
33	Hwang, Y. J.; An, J. S.; McCord, M. G.; Park, S. W.; Kang, B. C., The effect of etching on low-stress mechanical properties of polypropylene fabrics under helium/oxygen atmospheric pressure plasma. *Fibers and Polymers* 2003, *4* (4), 145-150.
34	Kim, Y. H.; Choi, Y. H.; Kim, J. H.; Park, J. K.; Ju, W. T.; Paek, K. H.; Hwang, Y. S., Characterisations of atmospheric pressure ejected plasma sources. *Surface & Coatings Technology* 2003, *174* , 535-540.

35	Riccardi, C.; Barni, R.; Selli, E.; Mazzone, G.; Massafra, M. R.; Marcandalli, B.; Poletti, G., Surface modification of poly(ethylene terephthalate) fibers induced by radio frequency air plasma treatment. *Applied Surface Science* 2003, *211* (1-4), 386-397.
36	Hwang, Y. J.; Qiu, Y.; Zhang, C.; Jarrard, B.; Stedeford, R.; Tsai, J.; Park, Y. C.; McCord, M., Effects of atmospheric pressure helium/air plasma treatment on adhesion and mechanical properties of aramid fibers. Journal of Adhesion Science and Technology 2003, 17 (6), 847-860.
37	Leterrier, Y., Durability of nanosized oxygen-barrier coatings on polymers - Internal stresses. *Progress in Materials Science* 2003, *48* (1), 1-55.
38	Arefi-Khonsari, F.; Kurdi, J.; Tatoulian, M.; Amouroux, J., On plasma processing of polymers and the stability of the surface properties for enhanced adhesion to metals. *Surface & Coatings Technology* 2001, *142* , 437-448.
39	Dumitrascu, N.; Balau, T.; Tasca, M.; Popa, G., Corona discharge treatment of the plastified PVC films obtained by chemical grafting. *Materials Chemistry and Physics* 2000, *65* (3), 339-344.
40	Shahidzadeh, N.; Merdas, A.; Urbach, W.; Arefi-Khonsari, F.; Tatoulian, M.; Amouroux, J., Orientation of lyotropic and thermotropic liquid crystals on plasma-treated fluorinated surfaces. *Langmuir* 1998, *14* (22), 6594-6598.

32	**Gheorghiu, M.; Arefi, F.; Amouroux, J.; Placinta, G.; Popa, G.; Tatoulian, M., Surface cross linking and functionalization of poly(ethylene terephthalate) in a helium discharge. *Plasma Sources Science & Technology* 1997, *6* (1), 8-19.**
1	Pandiyaraj, K. N.; Deshmukh, R. R.; Arunkumar, A.; Ramkumar, M. C.; Ruzybayev, I.; Shah, S. I.; Su, P.-G.; Periayah, M. H.; Halim, A. S., Evaluation of mechanism of non-thermal plasma effect on the surface of polypropylene films for enhancement of adhesive and hemo compatible properties. Applied Surface Science 2015, 347, 336-346.
2	Fang, J. S.; Lin, C. S.; Huang, Y. Y.; Chin, T. S., Surface-Morphology-Induced Hydrophobicity of Fluorocarbon Films Grown by a Simultaneous Etching and Deposition Process. *Journal of Electronic Materials* 2015, *44* (8), 2908-2914.
3	Bhatt, S.; Pulpytel, J.; Arefi-Khonsari, F., Low and atmospheric plasma polymerisation of nanocoatings for bio-applications. *Surface Innovations* 2015, *3* (2), 63-83.
4	Van Deynse, A.; De Geyter, N.; Leys, C.; Morent, R., Influence of Water Vapor Addition on the Surface Modification of Polyethylene in an Argon Dielectric Barrier Discharge. *Plasma Processes and Polymers* 2014, *11* (2), 117-125.
5	Perez-Roldan, M. J.; Debarnot, D.; Poncin-Epaillard, F., Surface chemistry of PET for enhancing its antifouling properties. *Rsc Advances* 2014, *4* (109), 64006-64013.
6	Perez-Roldan, M. J.; Debarnot, D.; Poncin-Epaillard, F., Processing of plasma-modified and polymer-grafted hydrophilic PET surfaces, and study of their aging and bioadhesive properties. *Rsc Advances* 2014, *4* (59), 31409-31415.

7	Aflori, M.; Drobota, M.; Dimitriu, D. G.; Stoica, I.; Simionescu, B.; Harabagiu, V., Collagen immobilization on polyethylene terephthalate surface after helium plasma treatment. Materials Science and Engineering B-Advanced Functional Solid-State Materials 2013, 178 (19), 1303-1310.
8	Drobota, M.; Aflori, M.; Stoica, I.; Doroftei, F., SURFACE CHARACTERIZATION OF AMINE FUNCTIONALIZED PET FILMS AFTER COLLAGEN IMMOBILIZATION. *Revue Roumaine De Chimie* 2013, *58* (2-3), 203-207.
9	Schofield, W. C. E.; Badyal, J. P. S., Plasmachemical oxygenation of porous polymer surfaces for stable hydrophilicity and enhanced liquid absorption. *Polymer* 2011, *52* (25), 5732-5738.
10	Yun, J.; Lee, S.; Bae, T.-S.; Yun, Y.; Lee, S.; Kwon, J.-D.; Lee, G.-H., Adhesive and Structural Failures of Oxide Coatings on Plasma-Treated Polymers. *Plasma Processes and Polymers* 2011, *8* (9), 815-831.
11	Rodriguez-Santiago, V.; Bujanda, A. A.; Stein, B. E.; Pappas, D. D., Atmospheric Plasma Processing of Polymers in Helium-Water Vapor Dielectric Barrier Discharges. *Plasma Processes and Polymers* 2011, *8* (7), 631-639.
12	Sanaee, Z.; Mohajerzadeh, S.; Zand, K.; Gard, F. S.; Pajouhi, H., Minimizing permeability of PET substrates using Oxygen plasma treatment. *Applied Surface Science* 2011, *257* (6), 2218-2225.
13	Sanaee, Z.; Mohajerzadeh, S.; Zand, K.; Gard, F. S., Improved impermeability of PET substrates using oxygen and hydrogen plasma. *Vacuum* 2010, *85* (2), 290-296.
14	Gomathi, N.; Mishra, D.; Maiti, T. K.; Neogi, S., Helium Plasma Treatment to Improve Biocompatibility and Blood Compatibility of Polycarbonate. *Journal of Adhesion Science and Technology* 2010, *24* (13-14), 2237-2255.
15	Gonzalez, E., II; Barankin, M. D.; Guschl, P. C.; Hicks, R. F., Remote Atmospheric-Pressure Plasma Activation of the Surfaces of Polyethylene Terephthalate and Polyethylene Naphthalate. *Langmuir* 2008, *24* (21), 12636-12643.
16	Katsikogianni, M.; Amanatides, E.; Mataras, D.; Missirlis, Y. F., Staphylococcus epidermidis adhesion to He, He/O-2 plasma treated PET films and aged materials: Contributions of surface free energy and shear rate. Colloids and Surfaces B-Biointerfaces 2008, 65 (2), 257-268.
17	Morent, R.; De Geyter, N.; Leys, C.; Gengembre, L.; Payen, E., Surface modification of non-woven textiles using a dielectric barrier discharge operating in air, helium and argon at medium pressure. *Textile Research Journal* 2007, *77* (7), 471-488.
18	Pappas, D.; Bujanda, A.; Demaree, J. D.; Hirvonen, J. K.; Kosik, W.; Jensen, R.; McKnight, S., Surface modification of polyamide fibers and films using atmospheric plasmas. *Surface & Coatings Technology* 2006, *201* (7), 4384-4388.
19	Almazan-Almazan, M. C.; Paredes, J. I.; Perez-Mendoza, M.; Domingo-Garcia, M.; Fernandez-Morales, I.; Martinez-Alonso, A.; Lopez-Garzon, F. J., Surface characteristics of activated carbons obtained by pyrolysis of plasma pretreated PET. Journal of Physical Chemistry B 2006, 110 (23), 11327-11333.
20	Almazan-Almazan, M. C.; Paredes, J. I.; Perez-Mendoza, M.; Dominco-Garcia, M.; Lopez-Garzon, F. J.; Martinez-Alonso, A.; Tascon, J. M. D., Surface characterisation of plasma-modified poly(ethylene terephthalate). Journal of Colloid and Interface Science 2006, 293 (2), 353-363.

21	Rombola, G.; Parisi, F.; Pavan, C.; Dapra, D., On-line atmospheric pressure plasma (APP) treatment of polypropylene fabrics. *Czechoslovak Journal of Physics* 2006, *56* , B1021-B1028.
22	Chiper, A. S.; Apetroaei, N.; Popa, G., Correlation between surface modifications induced on PET/TiO2 sample by DBD plasma produced in He/N-2 gas mixture and plasma parameters. *Journal of Optoelectronics and Advanced Materials* 2005, *7* (5), 2561-2570.
23	Hwang, Y. J.; Matthews, S.; McCord, M.; Bourham, M., Surface modification of organic polymer films treated in atmospheric plasmas. *Journal of the Electrochemical Society* 2004, *151* (7), C495-C501.
24	Dorai, R.; Kushner, M. J., A model for plasma modification of polypropylene using atmospheric pressure discharges. *Journal of Physics D-Applied Physics* 2003, *36* (6), 666-685.
25	Hwang, Y. J.; Qiu, Y.; Zhang, C.; Jarrard, B.; Stedeford, R.; Tsai, J.; Park, Y. C.; McCord, M., Effects of atmospheric pressure helium/air plasma treatment on adhesion and mechanical properties of aramid fibers. Journal of Adhesion Science and Technology 2003, 17 (6), 847-860.
26	Dumitrascu, N.; Balau, T.; Tasca, M.; Popa, G., Corona discharge treatment of the plastified PVC films obtained by chemical grafting. *Materials Chemistry and Physics* 2000, *65* (3), 339-344.
27	Groenewoud, L. M. H.; Terlingen, J. G. A.; Engbers, G. H. M.; Feijen, J., Removal of pendant groups of vinyl polymers by argon plasma treatment. *Langmuir* 1999, *15* (16), 5396-5402.
28	Yang, S. C.; Yanagi, J.; Yamamoto, K.; Uyama, H.; Fujiyama, H., Large-area uniform surface treatment of polymeric materials using a scanning plasma method. Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes & Review Papers 1999, 38 (7B), 4527-4530.