Fișa de îndeplinire a standardelor minimale CNATDCU - Rezumat

nume	gradul didactic	domeniul	1. Activitatea didactică și profesională											2. Activitatea de cercetare		3. Recunoașterea impactului activității		Total
			Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	Brevete de invenție internaționale acordate	Brevete de invenție naționale acordate	Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură naționale acordate	Director/ responsabil pentru proiecte de cercetare câștigate in valoare de V euro prin competiție națională sau internațională	**Total criteriu A**	Articole științifice originale în extenso ca autor	Articole științifice originale în extenso ca prim autor sau autor corespondent	Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science	Indicele Hirsch	
			$A_1 = \sum_i 4 / n_i^{ef}$	$A_2 = \sum_i 1 / n_i^{ef}$	$A_3 = \sum_i 0.5 / n_i^{ef}$	$A_4 = \sum_i 0.5 / n_i^{ef}$	$A_5 = \sum_i 0.2 / n_i^{ef}$	$A_6 = \sum_i 0.2 / n_i^{ef}$	$A_7 = \sum_i 3 / n_i^{ef}$	$A_8 = \sum_i 0.5 / n_i^{ef}$	$A_9 = \sum_i 0.5$	$A_{10} = \sum V_i / 100.000$	$A = \sum_{i=1}^{10} A_i$	$I = \sum_i AIS_i / n_i^{ef}$	$P = \sum_i AIS_i$	$C = \sum_i c_i / n_i^{ef}$	h	
COSTIN Claudiu	Conf.	FIZICĂ		0.20	0.17							5.33	**5.70**	**4.82**	**8.57**	**65.82**	**11**	**17.88**

Criterii minimale	prof/CS I	conf/CS II
A	**2**	**1**
I	**4**	**2**
P	**4**	**2**
C	**40**	**20**
h	**10**	**5**
T = A + I/2 + P/2 + C/20 + h/5	**12**	**5**

11/10/2021

Fișa de îndeplinire a standardelor minimale CNATDCU

Conf. univ. dr. Claudiu COSTIN

1. Activitatea didactica si profesionala (A)

1.2	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	Punct	Nr. Aut.	Nr. Aut. efectiv	Puncte
1	Tiberiu Minea, Tomas Kozak, Claudiu Costin, Jon Tomas Gudmundsson, Daniel Lundin, chapter "Modeling the high power impulse magnetorn sputtering discharge", in book High Power Impulse Magnetron Sputtering, 1st Edition, Fundamentals, Technologies, Challenges and Applications, Editors: Daniel Lundin, Jon Tomas Gudmundsson, Tiberiu Minea, Elsevier, 2020, Paperback ISBN: 9780128124543, eBook ISBN: 9780128124550, 392 pages	1	5	5	**0.20**
	Total 1.2				**0.20**

1.3	Carti in edituri internationale recunoscute WoS in calitate de editor	Punct	Nr. Eds.	Nr. eds. efectiv	Puncte
1	Editors D. Luca, L. Sirghi, C. Costin, Recent advances in technology research and education, Proceedings of the 16th International Conference on Global Research and Education Inter-Academia 2017, in the series: Advances in Intelligent Systems and Computing, Vol. 660, Springer, 2018, ISBN 978-3-319-67458-2	0.5	3	3	**0.17**
	Total 1.3				**0.17**

1.10	Director/responsabil pentru proiecte de cercetare castigate prin competitie nationala sau internationala. Se imparte suma totala in euro la 100000.	Lei	Euro	Pondere	Indicator	Puncte
3	Grant Nr. 1EU-1/2 / 01.07.2016, din cadrul PNCDI III, Program 5 / Subprogram 5.2 / Modul 5.2.1 EURATOM-RO Fuziune, titlul "Participarea Romaniei la EUROfusion WPPFC si cercetari complementare", acronim PFC-RO, perioada 2016-2021, finantare ANCS si EURATOM	1007252	213911	2.14		
2	Grant Nr. 1EU-1 / 05.06.2014, din cadrul Programului PN II, CAPACITATI, Modul III, EURATOM-RO, domeniul Fuziune, titlul "Participarea Romaniei la EUROfusion WPPFC si cercetari complementare", acronim WPPFC-RO, perioada 2014-2016, finantare ANCS si EURATOM	403077	89573	0.90		
1	Grant Nr. 1EU-3 / 11.08.2008 din cadrul Programului PN II CAPACITATI, Modulul III, Aria tematica PC7-EURATOM-Fuziune, titlul "Proprietatile paturilor de sarcina spatiala si fenomene asociate interactiunii perete-plasma magnetizata. Aplicatii la ITER", perioada 2008-2013, finantare ANCS si EURATOM	979768	229383	2.29		
	Total 1.10		**532867**	**5.33**	1	**5.33**

A = **5.70**

2. Activitatea de cercetare (I si P)

2.1	Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings	anul	Nr autori	Nr autori efectiv	ai	I

30	C. Costin, "Secondary electron emission under magnetic constraint: from Monte Carlo simulations to analytical solution", Scientific Reports 11 (2021) 1874 (11 pp)	2021	1	1.00	1.285	1.285
29	C. Costin, "Particle distribution functions at plasma-surface interface", AIP Advances 10 (2020) 115308 (7 pp)	2020	1	1.00	0.374	0.374
28	P. Dinca, V. Tiron, I.-L. Velicu, C. Porosnicu, B. Butoi, A. Velea, E. Grigore, C. Costin, C.P. Lungu, "Negative ion-induced deuterium retention in mixed W-Al layers co-deposited in dual-HiPIMS", Surf. Coat. Technol. 363 (2019), pp. 273-281	2019	9	7.00	0.512	0.073
27	A. Revel, T. Minea, C. Costin, "2D PIC-MCC simulations of magnetron plasma in HiPIMS regime with external circuit", Plasma Sources Sci. Technol. 27 (2018) 105009 (21 pp)	2018	3	3.00	0.804	0.268
26	V. Tiron, I.-L. Velicu, A. V. Nastuta, C. Costin, G. Popa, Z. Kechidi, C. Ionita and R. Schrittwieser, "Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode", Plasma Sources Sci. Technol. 27 (2018) 085005 (11 pp)	2018	8	6.50	0.804	0.124
25	S. Brezinsek et al., "Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification", NUCLEAR FUSION 57(11) (2017) 116041	2017	169	53.50	0.836	0.016
24	C. Costin, G. Popa, V. Anita, "Electrical probe characteristic recovery by measuring only one time-dependent parameter", Rev. Sci. Instrum. 87 (2016) 033506 (7 pp)	2016	3	3.00	0.541	0.180
23	C. Costin, V. Anita, G. Popa, J. Scholten, G. De Temmerman, "Tailoring the charged particle fluxes across the target surface of Magnum-PSI", Pasma Sources Sci. Technol. 25 (2016) 025023 (10 pp)	2016	5	5.00	0.836	0.167
22	C. Lazarou, D. Koukounis, A. S. Chiper, C. Costin, I. Topala, G. E. Georghiou, "Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge", Plasma Sources Sci. Technol. 24 (2015) 035012 (13 pp)	2015	6	5.50	0.852	0.155
21	C. Costin, V. Anita, F. Ghiorghiu, G. Popa, G. De Temmerman, M. A. van den Berg, J. Scholten, S. Brons, "Cross-section analysis of Magnum-PSI plasma beam using 2D multi-probe system", Plasma Sources Sci. Technol. 24 (2015) 015014 (10 pp)	2015	8	6.50	0.852	0.131
20	O. Antonin, V. Tiron, C. Costin, G. Popa, T.M. Minea, "On the HiPIMS benefits of multi-pulse operating mode", J. Phys. D: Appl. Phys. 48 (2015) 015202 (10 pp)	2015	5	5.00	0.838	0.168
19	I. Mihaila, S. Costea, C. Costin, and G. Popa, "On Negative Slope of Probe Characteristics in Magnetized Plasmas", Contrib. Plasma Phys. 54(3) (2014) 291-297	2014	4	4.00	0.280	0.070
18	T.M. Minea, C. Costin, A. Revel, D. Lundin, L. Caillault, "Kinetics of plasma species and their ionization in short pulsed HiPIMS by particle modeling", Surf. Coat. Technol. 255 (2014), pp. 52-61	2014	5	5.00	0.515	0.103
17	C. Costin, T. M. Minea, and G. Popa, "Electron transport in magnetrons by a posteriori Monte Carlo simulations", Plasma Sources Sci. Technol. 23 (2014) 015012 (11 pp)	2014	3	3.00	0.878	0.293
16	N. Brenning, D. Lundin, T. Minea, C. Costin and C. Vitelaru, „Spokes and charged particle transport in HiPIMS magnetrons", J. Phys. D: Appl. Phys. 46 (2013) 084005 (10 pp)	2013	5	5.00	0.809	0.162
15	I. Mihaila, M. L. Solomon, **C. Costin**, and G. Popa, „On Electrical Probes Used in Magnetized Plasma Diagnostics", *Contrib. Plasma Phys* . **53**(1) (2013), pp. 96 – 101	2013	4	4.00	0.392	0.098

14	C. Costin, V. Tiron, J. Faustin, and G. Popa, "Fast Imaging Investigation on Pulsed Magnetron Discharge", *IEEE Transactions on Plasma Science* 39(11) (2011), pp. 2482-2483	2011	4	4.00	0.424	0.106
13	M. L. Solomon, V. Anita, C. Costin, I. Mihaila, G. Popa, H. van der Meiden, R. Al, M. van de Pol, G. van Rooij, and J. Rapp, "Multi-Channel Analyzer Investigations of Ion Flux at the Target Surface in Pilot-PSI", Contributions to Plasma Physics 50(9) (2010), pp. 898-902	2010	10	7.50	0.466	0.062
12	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Plasma kinetics of Ar/O2 magnetron discharge by 2D multi-fluid modeling", J. Vac. Sci. Technol. A 28(2) (2010), pp. 322-328	2010	4	4.00	0.452	0.113
11	V. Tiron, S. Dobrea, C. Costin, and G. Popa, "On the carbon and tungsten sputtering rate in a magnetron discharge", Nucl. Instrum. Meth. B 267(2) (2009), pp. 434-437	2009	4	4.00	0.35	0.088
10	J. Brotankova, E. Martines, J. Adamek, J. Stockel, G. Popa, C. Costin, C Ionita, R. Schrittwieser, and G. Van Oost, "Novel Technique for Direct Measurement of the Plasma Diffusion Coefficient in Magnetized Plasma", Contributions to Plasma Physics 48(5-7) (2008), pp. 418-423	2008	9	7.00	0.405	0.058
9	J. Adamek, M. Kocan, R. Panek, J. P.Gunn, E. Martines, J. Stöckel, C. Ionita, G. Popa, C. Costin, J. Brotankova, R. Schrittwieser, and G. Van Oost, "Simultaneous Measurements of Ion Temperature by Segmented Tunnel and Katsumata Probe", Contributions to Plasma Physics 48(5-7) (2008), pp. 395-399	2008	12	8.50	0.405	0.048
8	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Fluid Modelling of DC Magnetrons - Low Pressure Extension and Experimental Validation", Plasma Process. & Polym. 4(S1) (2007), pp. S960-S964	2007	4	4.00	0.730	0.183
7	J. Brotankova, J. Adamek, J. Stockel, E. Martines, G. Popa, C. Costin, R. Schrittwieser, C. Ionita, G. van Oost, and L. van de Peppel, "A probe-based method for measuring the transport coefficient in the tokamak edge region", Czechoslovak Journal of Physics, Vol. 56 (2006), pp. 1321–1328	2006	10	7.50	0.1331	0.018
6	R. Schrittwieser, C. Ionita, J. Adamek, J. Stockel, J. Brotankova, E. Martines, G. Popa, C. Costin, L. van de Peppel, and G. van Oost, "Direct measurements of the plasma potential by katsumata-type probes", Czechoslovak Journal of Physics, Vol. 56 (2006), Suppl. B, pp. B145–B150	2006	10	7.50	0.1331	0.018
5	C. Costin, G. Popa, and G. Gousset, "On the secondary electron emission in DC magnetron discharge", Journal of Optoelectronics and Advanced Materials 7 (2005), pp. 2465	2005	3	3.00	0.1186	0.040
4	C. Costin, L. Marques, G. Popa, and G. Gousset, "Two-dimensional fluid approach to the dc magnetron discharge", Plasma Sources Sci. Technol. 14 (2005), pp. 168-176	2005	4	4.00	0.8831	0.221
3	C. Costin, G. Gousset, and G. Popa, "Modélisation d'une décharge magnétron dc dans l'Argon par un modèle fluide", Le Vide, Nr. 304, 2/4 (2002), pp. 308-315	2002	3	3.00	0.0351	0.012
2	I. Mihaila, G. Popa, V. Anita, C. Costin, L. Sirghi, and I. Turcu, "La fonction de distribution des électrons dans une décharge magnétron dans l'Argon avec une cible en Aluminium", Le Vide, Nr. 304, 2/4 (2002), pp. 316-325	2002	6	5.50	0.0351	0.006
1	L. Sirghi, K. Ohe, C. Costin, and G. Popa, "Electron Kinetics in the Hot-Cathode Negative Glow of a Helium Discharge", Jpn. J. Appl. Phys., Vol. 39 (2000), pp. 1338-1342	2000	4	4.00	0.7535	0.188

I = **4.82**

2.2	Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings pentru care candidatul este primautor sau autor corespondent	ai	P
13	C. Costin, "Secondary electron emission under magnetic constraint: from Monte Carlo simulations to analytical solution", Scientific Reports 11 (2021) 1874 (11 pp)	1.285	1.285
12	C. Costin, "Particle distribution functions at plasma-surface interface", AIP Advances 10 (2020) 115308 (7 pp)	0.374	0.374
11	V. Tiron, I.-L. Velicu, A. V. Nastuta, C. Costin, G. Popa, Z. Kechidi, C. Ionita and R. Schrittwieser, "Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode", Plasma Sources Sci. Technol. 27 (2018) 085005 (11 pp)	0.804	0.804
10	C. Costin, G. Popa, V. Anita, "Electrical probe characteristic recovery by measuring only one time-dependent parameter", Rev. Sci. Instrum. 87 (2016) 033506 (7 pp)	0.541	0.541
9	C. Costin, V. Anita, G. Popa, J. Scholten, G. De Temmerman, "Tailoring the charged particle fluxes across the target surface of Magnum-PSI", Pasma Sources Sci. Technol. 25 (2016) 025023 (10pp)	0.836	0.836
8	C. Costin, V. Anita, F. Ghiorghiu, G. Popa, G. De Temmerman, M. A. van den Berg, J. Scholten, S. Brons, Cross-section analysis of Magnum-PSI plasma beam using 2D multi-probe system, Plasma Sources Sci. Technol. 24 (2015) 015014 (10 pp)	0.852	0.852
7	C. Costin, T. M. Minea, and G. Popa, "Electron transport in magnetrons by a posteriori Monte Carlo simulations", Plasma Sources Sci. Technol. 23 (2014) 015012 (11 pp)	0.878	0.878
6	I. Mihaila, M. L. Solomon, **C. Costin**, and G. Popa, „On Electrical Probes Used in Magnetized Plasma Diagnostics", *Contrib. Plasma Phys* . **53**(1) (2013), pp. 96 – 101	0.392	0.392
5	C. Costin, V. Tiron, J. Faustin, and G. Popa, "Fast Imaging Investigation on Pulsed Magnetron Discharge", *IEEE Transactions on Plasma Science* **39**(11) (2011), pp. 2482-2483	0.424	0.424
4	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Plasma kinetics of Ar/O2 magnetron discharge by 2D multi-fluid modeling", J. Vac. Sci. Technol. A 28(2) (2010), pp. 322-328	0.452	0.452
3	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Fluid Modelling of DC Magnetrons - Low Pressure Extension and Experimental Validation", Plasma Process. & Polym. 4(S1) (2007), pp. S960-S964	0.730	0.730
2	C. Costin, G. Popa, and G. Gousset, "On the secondary electron emission in DC magnetron discharge", Journal of Optoelectronics and Advanced Materials 7 (2005), pp. 2465	0.1186	0.1186
1	C. Costin, L. Marques, G. Popa, and G. Gousset, "Two-dimensional fluid approach to the dc magnetron discharge", Plasma Sources Sci. Technol. 14 (2005), pp. 168-176	0.8831	0.8831

P = **8.57**

3. Recunoastere si impactul activitatii (A3)

Numar total citari (fara autocitari) = **378**

3.1	Citari in reviste indexate ISI	Nr autori	Nr autori efectiv	ci	C
1	N. Brenning, D. Lundin, T. Minea, C. Costin and C. Vitelaru, „Spokes and charged particle transport in HiPIMS magnetrons", J. Phys. D: Appl. Phys. 46 (2013) 084005 (10pp)	5	5.00	71	14.20
C71	Direct evidence of gradient drift instability being the origin of a rotating spoke in a crossed field plasma By Xu, L (Xu, Liang) Eremin, D (Eremin, Denis) Brinkmann, RP (Brinkmann, Ralf Peter) PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 7 Article Number: 075013 Published: JUL 2021				

C70	Restructuring of rotating spokes in response to changes in the radial electric field and the neutral pressure of a cylindrical magnetron plasma By: Sengupta, M.; Smolyakov, A.; Raitses, Y. JOURNAL OF APPLIED PHYSICS Volume: 129 Issue: 22 Article Number: 223302 Published: JUN 14 2021
C69	Ionized particle transport in reactive HiPIMS discharge: correlation between the energy distribution functions of neutral and ionized atoms By: El Farsy, A.; Boivin, D.; Noel, C.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 6 Article Number: 065016 Published: JUN 2021
C68	On how to measure the probabilities of target atom ionization and target ion back-attraction in high-power impulse magnetron sputtering By: Rudolph, Martin; Hajihoseini, Hamidreza; Raadu, Michael A.; et al. JOURNAL OF APPLIED PHYSICS Volume: 129 Issue: 3 Article Number: 033303 Published: JAN 21 2021
C67	HiPIMS optimization by using mixed high-power and low-power pulsing By: Brenning, Nils; Hajihoseini, Hamidreza; Rudolph, Martin; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 1 Article Number: 015015 Published: JAN 2021
C66	Physics and technology of magnetron sputtering discharges By: Gudmundsson, J. T. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 113001 Published: NOV 2020
C65	Magnetron sputtering: determining scaling relations towards real power discharges using 3D particle-in-cell Monte Carlo models By: Tonneau, R.; Pflug, A.; Lucas, S. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 115007 Published: NOV 2020
C64	Rotating Spokes, Ionization Instability, and Electron Vortices in Partially Magnetized E x B Plasmas By: Boeuf, Jean-Pierre; Takahashi, Masayuki PHYSICAL REVIEW LETTERS Volume: 124 Issue: 18 Article Number: 185005 Published: MAY 8 2020
C63	Optimization of HiPIMS discharges: The selection of pulse power, pulse length, gas pressure, and magnetic field strength By: Brenning, Nils; Butler, Alexandre; Hajihoseini, Hamidreza; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 38 Issue: 3 Article Number: 033008 Published: MAY 2020
C62	Sideways deposition rate and ionized flux fraction in dc and high power impulse magnetron sputtering By: Hajihoseini, Hamidreza; Cada, Martin; Hubicka, Zdenek; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 38 Issue: 3 Article Number: 033009 Published: MAY 2020
C61	Spectroscopic investigation on the near-substrate plasma characteristics of chromium HiPIMS in low density discharge mode By: Zuo, Xiao; Zhang, Dong; Chen, Rende; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 1 Article Number: 015013 Published: JAN 2020
C60	Electron extraction enhancement via the magnetic field in a miniature microwave discharge neutralizer By: Sato, Yosuke; Koizumi, Hiroyuki; Nakano, Masakatsu; et al. JOURNAL OF APPLIED PHYSICS Volume: 126 Issue: 24 Article Number: 243302 Published: DEC 28 2019
C59	Effects of power per pulse on reactive HiPIMS deposition of ZrO2 films: A time-resolved optical emission spectroscopy study By: Pajdarova, Andrea D.; Vlcek, Jaroslav JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 37 Issue: 6 Article Number: 061305 Published: NOV 2019
C58	Tunable microstructures and morphology of zirconium films via an assist of magnetic field in HiPIMS for improved mechanical properties By: Luo, Huan; Gao, Fei; Billard, Alain SURFACE & COATINGS TECHNOLOGY Volume: 374 Pages: 822-832 Published: SEP 25 2019

C57	About Azimuthal Acceleration of the Electrons by Azimuthal Surface Waves in a Dielectric-Lined Circular Waveguide With Two Thin Annular Rotating Electron Beams By: Hajijamali-Arani, Zeinab; Jazi, Bahram IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 47 Issue: 8 Pages: 4012-4025 Part: 3 Published: AUG 2019
C56	Micro instabilities and rotating spokes in the near-anode region of partially magnetized plasmas By: Boeuf, J. P. PHYSICS OF PLASMAS Volume: 26 Issue: 7 Article Number: 072113 Published: JUL 2019
C55	Study of Metal Atom Ionization in a Hollow-Cathode Magnetron By: Tsargorodtsev, Yu. P.; Poluektov, N. P.; Usatov, I. I.; et al. PLASMA PHYSICS REPORTS Volume: 45 Issue: 6 Pages: 592-601 Published: JUN 2019
C54	Self-organizing plasma behavior in RF magnetron sputtering discharges By: Panjan, Matjaz JOURNAL OF APPLIED PHYSICS Volume: 125 Issue: 20 Article Number: 203303 Published: MAY 28 2019
C53	Rotating spoke instabilities in a wall-less Hall thruster: experiments By: Mazouffre, S.; Grimaud, L.; Tsikata, S.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 5 Article Number: 054002 Published: MAY 2019
C52	An overview of discharge plasma modeling for Hall effect thrusters By: Hara, Kentaro PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 4 Article Number: 044001 Published: APR 2019
C51	The statistics of spoke configurations in high-power impulse magnetron sputtering discharges By: Klein, P.; Hnilica, J.; Zemanek, M.; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 52 Issue: 12 Article Number: 125201 Published: MAR 20 2019
C50	Bipolar HiPIMS for tailoring ion energies in thin film deposition By: Keraudy, Julien; Viloan, Rommel Paulo B.; Raadu, Michael A.; et al. SURFACE & COATINGS TECHNOLOGY Volume: 359 Pages: 433-437 Published: FEB 15 2019
C49	The influence of positive pulses on HiPIMS deposition of hard DLC coatings By: Santiago, J. A.; Fernandez-Martinez, I.; Kozak, T.; et al. SURFACE & COATINGS TECHNOLOGY Volume: 358 Pages: 43-49 Published: JAN 25 2019
C48	Azimuthal inhomogeneities of axially symmetric rf discharge plasma in arc -shaped magnetic field By: Filippov, A. V.; Pal, A. F.; Ryabinkin, A. N.; et al. Conference: 33rd International Conference on Equations of State for Matter (ELBRUS) Location: Kabardino Balkarian State Univ, Educ Sci Base, RUSSIA Date: MAR 01-06, 2018 Sponsor(s): Russian Acad Sci; Russian Fdn Basic Res XXXIII INTERNATIONAL CONFERENCE ON EQUATIONS OF STATE FOR MATTER Book Series : Journal of Physics Conference Series Volume: 1147 Article Number: 012116 Published: 2019
C47	Instabilities and Plasma Flares in Moderate-Current Confined Magnetron Sputtering in Three Dimensions By: Sahu, Bibhuti Bhusan; Wen, Long; Han, Jeon Geon PHYSICAL REVIEW APPLIED Volume: 10 Issue: 5 Article Number: 054042 Published: NOV 19 2018
C46	Spokes in high power impulse magnetron sputtering plasmas By: Hecimovic, Ante; von Keudell, Achim JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 45 Article Number: 453001 Published: NOV 14 2018
C45	Pitfalls in Modeling Walls and Neutrals Physics in Gas Discharges Using Parallel Particle-in-Cell Monte Carlo Collision Algorithms By: Gueroult, Renaud; Fubiani, Gwenael; Garrigues, Laurent FRONTIERS IN PHYSICS Volume: 6 Article Number: 128 Published: NOV 13 2018

C44	The spoke origin based on the coupling-induced wave model in high-power impulse magnetron sputtering plasma By: Luo, Huan; Minea, Tiberiu; Gao, Fei; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 27 Issue: 11 Article Number: 115003 Published: NOV 2018
C43	Magnetic field influence on ionization zones in high-power impulse Magnetron Sputtering By: Raman, Priya; Cheng, Matthew; Weberski, Justin; et al. VACUUM Volume: 156 Pages: 9-19 Published: OCT 2018
C42	CIV FENOMEN IN GAS-METAL PLASMA By: Kovtun, Yu. V. PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY Issue: 4 Pages: 43-48 Published: 2015
C41	Scaling of spoke rotation frequency within a Penning discharge By: Powis, Andrew T.; Carlsson, Johan A.; Kaganovich, Igor D.; et al. PHYSICS OF PLASMAS Volume: 25 Issue: 7 Article Number: 072110 Published: JUL 2018
C40	Neutral gas simulation on the influence of rotating spokes on gas rarefaction in high-power impulse magnetron sputtering By: Trieschmann, Jan Conference: 18th Tropical Conference on Plasma Technology (PT) Location: HAWK Univ Appl Sci & Arts, Gottingen, GERMANY Date: FEB 20-22, 2017 Sponsor(s): Fraunhofer Inst Surface Engn & Thin Films IST; Deutsch Gesell Plasmatechnologie e V CONTRIBUTIONS TO PLASMA PHYSICS Volume: 58 Issue: 5 Special Issue: SI Pages: 394-403 Published: JUN 2018
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C6	OPERATING THE HIPIMS DISCHARGE WITH ULTRA-SHORT PULSES: A SOLUTION TO OVERCOME THE DEPOSITION RATE LIMITATION By: Velicu, I. -L.; Mihaila, I.; Popa, G. ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 3 Article Number: 411 Published: 2017				
C5	Mass spectrometry analyzes to highlight differences between short and long HiPIMS discharges By: Ferrec, Axel; Keraudy, Julien; Jouan, Pierre-Yves APPLIED SURFACE SCIENCE Volume: 390 Pages: 497-505 Published: DEC 30 2016				
C4	Comparative Study of Cu Films Prepared by DC, High-Power Pulsed and Burst Magnetron Sputtering By: Solovyev, A. A.; Oskirko, V. O.; Semenov, V. A.; et al. JOURNAL OF ELECTRONIC MATERIALS Volume: 45 Issue: 8 Pages: 4052-4060 Published: AUG 2016				
C3	Reactive multi-pulse HiPIMS deposition of oxygen-deficient TiOx thin films By: Tiron, V.; Velicu, I. -L.; Dobromir, M.; et al. THIN SOLID FILMS Volume: 603 Pages: 255-261 Published: MAR 31 2016				
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C21	Auxiliary capacitor to enhance oscillation in circuit and reduce current onset delay in HiPIMS discharge : Theory, experiment and simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. SURFACE & COATINGS TECHNOLOGY Volume : 405 Article Number: 126518 Published: JAN 15 2021				
C20	Effects of the dynamic cathode sheath on electron transport at the initial period of HiPIMS pulse studied by Langmuir probe measurements and 2D PIC-MCC simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. Conference: 15th International Conference on Plasma Based Ion Implantation and Deposition (PBII and D) Location: Shenzhen, PEOPLES R CHINA Date: DEC 19-22, 2019 SURFACE & COATINGS TECHNOLOGY Volume : 403 Article Number: 126371 Published: DEC 15 2020				
C19	Physics and technology of magnetron sputtering discharges By: Gudmundsson, J. T. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume : 29 Issue: 11 Article Number: 113001 Published: NOV 2020				

C18	Ionisation fractions of sputtered titanium species at target and substrate region in HiPIMS By: Bernatova, K.; Fekete, M.; Klein, P.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 5 Article Number: 055010 Published: MAY 2020
C17	Test particle dynamics in low-frequency tokamak turbulence By: Medina, J.; Lesur, M.; Gravier, E.; et al. PHYSICS OF PLASMAS Volume: 26 Issue: 10 Article Number: 102301 Published: OCT 2019
C16	Recent progress on high power impulse magnetron sputtering (HiPIMS): The challenges and applications in fabricating VO2 thin film By: Zhang, Haibao; Cherng, Jyh-Shiarn; Chen, Qiang AIP ADVANCES Volume: 9 Issue: 3 Article Number: 035242 Published: MAR 2019
C15	Influence of peak current on substrate plasma sheath properties of Ti films deposited by high-power pulsed magnetron sputtering By: Chen, C. Z.; Ma, D. L.; Huang, N.; et al. Conference: 3rd International Conference on Materials Science and Nanotechnology (ICMSNT) Location: Chengdu, PEOPLES R CHINA Date: MAR 29-APR 01, 2018 Sponsor(s): SW Jiaotong Univ; Univ Auckland; Swinburne Univ Technol; Hong Kong Soc Mech Engineers; Changzhou Inst Technol; Jiangsu Univ Sci & Technol; Jiangsu Cultural & Creat Collaborat Innovat Ctr INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 33 Issue: 1-3 Special Issue: SI Article Number: 1940016 Published: JAN 30 2019
C14	Effect of substrate bias on microstructure and mechanical properties of WC-DLC coatings deposited by HiPIMS By: Wang, Lei; Li, Liuhe; Kuang, Xiaocong SURFACE & COATINGS TECHNOLOGY Volume: 352 Pages: 33-41 Published: OCT 25 2018
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C12	Tailoring of titanium thin film properties in high power pulsed magnetron sputtering By: Wu, Baohua; Yu, Yan; Wu, Jian; et al. VACUUM Volume: 150 Special Issue: SI Pages: 144-154 Published: APR 2018
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C9	Particle-in-Cell/Test-Particle Simulations of Technological Plasmas: Sputtering Transport in Capacitive Radio Frequency Discharges By: Trieschmann, Jan; Schmidt, Frederik; Mussenbrock, Thomas PLASMA PROCESSES AND POLYMERS Volume: 14 Issue: 1-2 Article Number: UNSP 1600140 Published: JAN 2017
C8	Plasma characteristics and properties of Cu films prepared by high power pulsed magnetron sputtering By: Wu, B. H.; Wu, J.; Jiang, F.; et al. VACUUM Volume: 135 Pages: 93-100 Published: JAN 2017
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C5	Optimizing HiPIMS pressure for deposition of high-k (k=18.3) amorphous HfO2 By: Ganesan, R.; Murdoch, B. J.; Partridge, J. G.; et al. APPLIED SURFACE SCIENCE Volume: 365 Pages: 336-341 Published: MAR 1 2016				
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C10	Full-F gyrofluid model By: Madsen, Jens PHYSICS OF PLASMAS Volume: 20 Issue: 7 Article Number: 072301 Published: JUL 2013
C9	Intermittent transport across the scrape-off layer: latest results from ASDEX Upgrade By: Kocan, M.; Mueller, H. W.; Nold, B.; et al. Group Author(s): ASDEX Upgrade Team NUCLEAR FUSION Volume: 53 Issue: 7 Article Number: 073047 Published: JUL 2013
C8	Scanning ion sensitive probe for plasma profile measurements in the boundary of the Alcator C-Mod tokamak By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 5 Article Number: 053507 Published: MAY 2013
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C5	Diagnostics of magnetized low temperature plasma by ball-pen probe By: Adamek, Jiri; Peterka, Matej; Gyergyek, Tomaz; et al. Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Warsaw, POLAND Date: SEP 12-16, 2011 Sponsor(s): Polish Acad Sci, Comm Phys; Andrzej Soltan Inst Nucl Studies (IPJ); Inst Plasma Phys & Laser Microfus (IPPLM); Natl Ctr Nucl Res (NCBJ) NUKLEONIKA Volume: 57 Issue: 2 Pages: 297-300 Published: 2012
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C3	Measurements of ion energies in the tokamak plasma boundary By: Kocan, M.; Gunn, J. P.; Carpentier-Chouchana, S.; et al. Group Author(s): ASDEX Upgrade Tore Supra Teams Conference: 19th International Conference on Plasma-Surface Interactions in Controlled Fusion Devices (PSI) Location: Univ Calif, Gen Atom, San Diego, CA Date: MAY 24-28, 2010 Sponsor(s): Lawrence Livermore Natl Lab JOURNAL OF NUCLEAR MATERIALS Volume: 415 Issue: 1 Supplement: S Pages: S1133-S1138 Published: AUG 1 2011
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C9	Space-charge limits of ion sensitive probes By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 55 Issue: 12 Article Number: 125004 Part: 1-2 Published: DEC 2013				
C8	Scanning ion sensitive probe for plasma profile measurements in the boundary of the Alcator C-Mod tokamak By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 5 Article Number: 053507 Published: MAY 2013				
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C13	A high-power impulse magnetron sputtering global model for argon plasma-chromium target interactions By: Zgheib, Joelle; Jouan, Pierre Yves; Rhallabi, Ahmed JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 39 Issue: 4 Article Number: 043004 Published: JUL 2021				
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C9	Auxiliary capacitor to enhance oscillation in circuit and reduce current onset delay in HiPIMS discharge : Theory, experiment and simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. SURFACE & COATINGS TECHNOLOGY Volume: 405 Article Number: 126518 Published: JAN 15 2021				
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C7	Resolution dependence of magnetosheath waves in global hybrid-Vlasov simulations Associated Data By: Dubart, Maxime; Ganse, Urs; Osmane, Adnane; et al. ANNALES GEOPHYSICAE Volume: 38 Issue: 6 Pages: 1283-1298 Published: DEC 21 2020				

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C9	Numerical modeling of the electrical properties plasma argon in a RF magnetron sputtering and with Einstein's relation of electron diffusivity By: Ballah, Z.; Khelfaoui, F. JOURNAL OF KING SAUD UNIVERSITY SCIENCE Volume: 32 Issue: 1 Pages: 620-627 Published: JAN 2020				
C8	Influence of cold hollow cathode geometry on the radial characteristics of downstream magnetized plasma column By: Bhuva, M. P.; Karkari, S. K.; Kumar, Sunil PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 11 Published: NOV 2019				
C7	On three different ways to quantify the degree of ionization in sputtering magnetrons By: Butler, Alexandre; Brenning, Nils; Raadu, Michael A.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 27 Issue: 10 Article Number: 105005 Published: OCT 2018				
C6	Optimization of deposition rate in HiPIMS by controlling the peak target current By: Tiron, V.; Velicu, I-L; Vasilovici, O.; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 49 Article Number: 495204 Published: DEC 16 2015				
C5	Comprehensive computer model for magnetron sputtering. II. Charged particle transport By: Jimenez, Francisco J.; Dew, Steven K.; Field, David J. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 32 Issue: 6 Article Number: 061301 Published: NOV 2014				

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C3	High power impulse magnetron sputtering discharge By: Gudmundsson, J. T.; Brenning, N.; Lundin, D.; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 30 Issue: 3 Article Number: 030801 Published: MAY 2012				
C2	Magnetic control of breakdown: Toward energy-efficient hollow-cathode magnetron discharges By: Baranov, O.; Romanov, M.; Kumar, S.; et al. JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 6 Article Number: 063304 Published: MAR 15 2011				
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C10	Different Techniques for Investigation of Plasma Diffusion Coefficient in IR-T1 Tokamak By: Ghoranneviss, Mahmood; Meshkani, Sakineh; Lafouti, Mansoureh Book Group Author(s): AIP Conference: 9th International Conference on Plasma Science and Applications (ICPSA) Location: Univ Teknologi Malaysia, MALAYSIA Date: NOV 28-30, 2016 Sponsor(s): Asian African Assoc Plasma Training; Newton Ungku Omar Fund; British Council; Govt Grp High Technol, Malaysian Ind; Inst Plasma Focus Studies; Univ Tenaga Nas; Nilai Univ; Univ York; Kementerian Pendidikan Tinggi INTERNATIONAL CONFERENCE ON PLASMA SCIENCE AND APPLICATIONS (ICPSA2016) Book Series: AIP Conference Proceedings Volume: 1824 Article Number: 020003 Published: 2017				
C9	Comparative measurements of plasma potential with ball-pen and Langmuir probe in low-temperature magnetized plasma By: Zanaska, M.; Adamek, J.; Peterka, M.; et al. PHYSICS OF PLASMAS Volume: 22 Issue: 3 Article Number: 033516 Published: MAR 2015				
C8	Plasma diagnostics for understanding the plasma-surface interaction in HiPIMS discharges: a review By: Britun, Nikolay; Minea, Tiberiu; Konstantinidis, Stephanos; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 47 Issue: 22 Special Issue: SI Article Number: 224001 Published: JUN 4 2014				
C7	Scanning ion sensitive probe for plasma profile measurements in the boundary of the Alcator C-Mod tokamak By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 5 Article Number: 053507 Published: MAY 2013				
C6	Application of the Ball-Pen Probe in Two Low-Temperature Magnetised Plasma Devices and in Torsatron TJ-K By: Adamek, J.; Peterka, M.; Gyergyek, T.; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 53 Issue: 1 Special Issue: SI Pages: 39-44 Published: JAN 2013				
C5	Diagnostics of magnetized low temperature plasma by ball-pen probe By: Adamek, Jiri; Peterka, Matej; Gyergyek, Tomaz; et al. Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Warsaw, POLAND Date: SEP 12-16, 2011 Sponsor(s): Polish Acad Sci, Comm Phys; Andrzej Soltan Inst Nucl Studies (IPJ); Inst Plasma Phys & Laser Microfus (IPPLM); Natl Ctr Nucl Res (NCBJ) NUKLEONIKA Volume: 57 Issue: 2 Pages: 297-300 Published: 2012				

C4	ADVANCED PROBES FOR BOUNDARY PLASMA DIAGNOSIS IN FUSION DEVICES By: Van Oost, Guido Conference: 9th Carolus Magnus Summer School on Plasma and Fusions Energy Physics Location: Belgium, GERMANY Date: AUG 31-SEP 11, 2009 FUSION SCIENCE AND TECHNOLOGY Volume: 57 Issue: 2T Pages: 401-412 Published: FEB 2010				
C3	Simulations of anomalous ion diffusion in experimentally measured turbulent potential By: Seidl, J.; Krlin, L.; Panek, R.; et al. EUROPEAN PHYSICAL JOURNAL D Volume: 54 Issue: 2 Pages: 399-407 Published: AUG 2009				
C2	Direct measurements of the plasma potential in ELMy H-mode plasma with ball-pen probes on ASDEX Upgrade tokamak By: Adamek, J.; Rohde, V.; Mueller, H. W.; et al. Group Author(s): ASDEX Upgrade Team Conference: 18th International Conference on Plasma-Surface Interactions in Controlled Fusion Devices Location: Toledo, SPAIN Date: MAY 26-30, 2008 Sponsor(s): Spanish Natl Fus Lab; Spanish Minist Sci & Innovat JOURNAL OF NUCLEAR MATERIALS Volume: 390-91 Pages: 1114-1117 Published: JUN 15 2009				
C1	Advanced probe edge diagnostics for fusion devices By: Van Oost, Guido Conference: 8th Carolus Magnus Summer School on Plasma and Fusion Energy Physics Location: Bad Honnef, GERMANY Date: SEP 03-14, 2007 Sponsor(s): Trilateral Euregio Cluster TEC; EURATOM Assoc; FOM-Inst Plasma Phys Rijnhuizen; Lab Plasma Phys; Ecole Royale Militaire-Koninklijke Mil Sch FUSION SCIENCE AND TECHNOLOGY Volume: 53 Issue: 2T Pages: 387-397 Published: FEB 2008				
12	C. Costin, V. Anita, G. Popa, J. Scholten, G. De Temmerman, "Tailoring the charged particle fluxes across the target surface of Magnum-PSI", Pasma Sources Sci. Technol. 25 (2016) 025023 (10pp)	5	5.00	9	1.80
C9	LIBS applicability for investigation of re-deposition and fuel retention in tungsten coatings exposed to pure and nitrogen-mixed deuterium plasmas of Magnum-PSI Jogi, I; Paris, P; (...); van der Meiden, HJ Nov 2021 | PHYSICA SCRIPTA 96 (11)				
C8	Thermalized collisional pre-sheath detected in dense plasma with coherent and incoherent Thomson scattering van den Berg-Stolp, J; van der Meiden, HJ; (...); van Rooij, GJ Sep 2021 | NUCLEAR FUSION 61 (9)				
C7	In-situ LIBS and NRA deuterium retention study in porous W-O and compact W coatings loaded by Magnum-PSI By Paris, P (Paris, Peeter) Jogi, I (Jogi, Indrek) Piip, K (Piip, Kaarel) Passoni, M (Passoni, Matteo) Dellasega, D (Dellasega, David) Grigore, E (Grigore, Eduard) Arnoldbik, WM (Arnoldbik, Wim M.) van der Meiden, H (van der Meiden, Hennie) FUSION ENGINEERING AND DESIGN Volume: 168 Article Number: 112403 Published: JUL 2021				
C6	LIBS study of ITER relevant tungsten-oxygen coatings exposed to deuterium plasma in Magnum-PSI By: Jogi, I.; Paris, P.; Laan, M.; et al. JOURNAL OF NUCLEAR MATERIALS Volume: 544 Article Number: 152660 Published: FEB 2021				
C5	Impact of impurity seeding on the electron energy distribution function in the COMPASS divertor region By: Dimitrova, M.; Popov, Tsv K.; Kovacic, J.; et al. Group Author(s): COMPASS Team; EUROfusion MST1 Team PLASMA PHYSICS AND CONTROLLED FUSION Volume: 62 Issue: 12 Article Number: 125015 Published: DEC 2020				
C4	ITER monoblock performance under lifetime loading conditions in Magnum-PSI By: Morgan, T. W.; Balden, M.; Schwarz-Selinger, T.; et al. PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014065 Published: JAN 1 2020				
C3	Power deposition on misaligned castellated tungsten blocks in the Magnum-PSI and Pilot-PSI linear devices By: Morgan, T. W.; van den Berg, M. A.; De Temmerman, G.; et al. NUCLEAR FUSION Volume: 57 Issue: 12 Article Number: 126025 Published: DEC 2017				

C2	Oscillatory vapour shielding of liquid metal walls in nuclear fusion devices By: van Eden, G. G.; Kvon, V.; van de Sanden, M. C. M.; et al. NATURE COMMUNICATIONS Volume: 8 Article Number: 192 Published: AUG 4 2017				
C1	Physics conclusions in support of ITER W divertor monoblock shaping By: Pitts, R. A.; Bardin, S.; Bazylev, B.; et al. NUCLEAR MATERIALS AND ENERGY Volume: 12 Special Issue: SI Pages: 60-74 Published: AUG 2017				
13	V. Tiron, S. Dobrea, C. Costin, and G. Popa, "On the carbon and tungsten sputtering rate in a magnetron discharge", Nucl. Instrum. Meth. B 267(2) (2009), pp. 434-437	4	4.00	7	1.75
C7	Modification of magnetron sputter deposition of nc-WC/a-C(:H) coatings with an additional RF discharge By: Makowka, M.; Pawlak, W.; Konarski, P.; et al. DIAMOND AND RELATED MATERIALS Volume: 98 Article Number: UNSP 107509 Published: OCT 2019				
C6	Correlation between plasma glow intensity distribution and sputtering profile in dc magnetron discharge By: Pal, A. F.; Ryabinkin, A. N.; Serov, A. O. Conference: 33rd International Conference on Equations of State for Matter (ELBRUS) Location: Kabardino Balkarian State Univ, Educ Sci Base, RUSSIA Date: MAR 01-06, 2018 Sponsor(s): Russian Acad Sci; Russian Fdn Basic Res XXXIII INTERNATIONAL CONFERENCE ON EQUATIONS OF STATE FOR MATTER Book Series : Journal of Physics Conference Series Volume: 1147 Article Number: 012115 Published: 2019				
C5	Deposition rate enhancement in HiPIMS through the control of magnetic field and pulse configuration By: Tiron, Vasile; Velicu, Ioana-Laura; Mihaila, Ilarion; et al. SURFACE & COATINGS TECHNOLOGY Volume: 337 Pages: 484-491 Published: MAR 15 2018				
C4	Effect of interelectrode distance on dc magnetron current-pressure characteristics By: Mankelevich, Yu A.; Pal, A. F.; Ryabinkin, A. N.; et al. Conference: 32nd International Conference on Interaction of Intense Energy Fluxes with Matter (ELBRUS) Location: Kabardino Balkarian State Univ, Nalchik, RUSSIA Date: MAR 01-06, 2017 Sponsor(s): Russian Acad Sci; Russian Fdn Basic Res XXXII INTERNATIONAL CONFERENCE ON INTERACTION OF INTENSE ENERGY FLUXES WITH MATTER (ELBRUS 2017) Book Series: Journal of Physics Conference Series Volume: 946 Article Number: UNSP 012150 Published: 2018				
C3	Ion-irradiation induced clustering in W-Re-Ta, W-Re and W-Ta alloys: An atom probe tomography and nanoindentation study By: Xu, Alan; Armstrong, David E. J.; Beck, Christian; et al. ACTA MATERIALIA Volume: 124 Pages: 71-78 Published: FEB 1 2017				
C2	Current-pressure dependencies of dc magnetron discharge in inert gases By: Serov, A. O.; Mankelevich, Yu A.; Pal, A. F.; et al. Book Group Author(s): IOP Conference: 31st International Conference on Equations of State for Matter (ELBRUS) Location: Kabardino Balkarian State Univ Elbrus, Educ Sci Base, RUSSIA Date: MAR 01-06, 2016 Sponsor(s): Russian Fdn Basic Res; Russian Acad Sci XXXI INTERNATIONAL CONFERENCE ON EQUATIONS OF STATE FOR MATTER (ELBRUS 2016) Book Series: Journal of Physics Conference Series Volume: 774 Article Number: UNSP 012150 Published: 2016				
C1	Current-pressure characteristics of dc magnetron discharge for high-rate sputtering By: Serov, A. O.; Mankelevich, Yu A.; Pal, A. F.; et al. Book Group Author(s): IOP Conference: 30th International Conference on Interaction of Intense Energy Fluxes with Matter (IIEFM) Location: RUSSIA Date: MAR 01-06, 2015 Sponsor(s): Russian Acad Sci; Russian Fdn Basic Res XXX INTERNATIONAL CONFERENCE ON INTERACTION OF INTENSE ENERGY FLUXES WITH MATTER (ELBRUS 2015) Book Series: Journal of Physics Conference Series Volume: 653 Article Number: 012127 Published: 2015				
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C5	OPERATING THE HIPIMS DISCHARGE WITH ULTRA-SHORT PULSES: A SOLUTION TO OVERCOME THE DEPOSITION RATE LIMITATION By: Velicu, I. -L.; Mihaila, I.; Popa, G. ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 3 Article Number: 411 Published: 2017				
C4	Friction at single-asperity contacts between hydrogen-free diamond-like carbon thin film surfaces By: Sirghi, L.; Tiron, V.; Dobromir, M. DIAMOND AND RELATED MATERIALS Volume: 52 Pages: 38-42 Published: FEB 2015				
C3	THE EFFECT OF THE ADDITIONAL MAGNETIC FIELD AND GAS PRESSURE ON THE SHEATH REGION OF A HIGH POWER IMPULSE MAGNETRON SPUTTERING DISCHARGE By: Tiron, V.; Velicu, I-L.; Ghiorghiu, F.; et al. ROMANIAN REPORTS IN PHYSICS Volume: 67 Issue: 3 Pages: 1004-1017 Published: 2015				
C2	Dynamics of the fast-HiPIMS discharge during FINEMET-type film deposition By: Velicu, Ioana-Laura; Tiron, Vasile; Popa, Gheorghe SURFACE & COATINGS TECHNOLOGY Volume: 250 Pages: 57-64 Published: JUL 15 2014				
C1	High power impulse magnetron sputtering discharge By: Gudmundsson, J. T.; Brenning, N.; Lundin, D.; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 30 Issue: 3 Article Number: 030801 Published: MAY 2012				
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C5	Experimental investigation of free and bounded presheaths in weakly magnetized plasmas By: Kang, I. J.; Bae, M. -K.; Lho, T.; et al. CURRENT APPLIED PHYSICS Volume: 17 Issue: 3 Pages: 358-365 Published: MAR 2017				
C4	Comparative measurements of plasma potential with ball-pen and Langmuir probe in low-temperature magnetized plasma By: Zanaska, M.; Adamek, J.; Peterka, M.; et al. PHYSICS OF PLASMAS Volume: 22 Issue: 3 Article Number: 033516 Published: MAR 2015				
C3	Application of the Ball-Pen Probe in Two Low-Temperature Magnetised Plasma Devices and in Torsatron TJ-K By: Adamek, J.; Peterka, M.; Gyergyek, T.; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 53 Issue: 1 Special Issue: SI Pages: 39-44 Published: JAN 2013				
C2	Diagnostics of magnetized low temperature plasma by ball-pen probe By: Adamek, Jiri; Peterka, Matej; Gyergyek, Tomaz; et al. Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Warsaw, POLAND Date: SEP 12-16, 2011 Sponsor(s): Polish Acad Sci, Comm Phys; Andrzej Soltan Inst Nucl Studies (IPJ); Inst Plasma Phys & Laser Microfus (IPPLM); Natl Ctr Nucl Res (NCBJ) NUKLEONIKA Volume: 57 Issue: 2 Pages: 297-300 Published: 2012				
C1	Interpretation of fast measurements of plasma potential, temperature and density in SOL of ASDEX Upgrade By: Horacek, J.; Adamek, J.; Mueller, H. W.; et al. Group Author(s): ASDEX Upgrade Team NUCLEAR FUSION Volume: 50 Issue: 10 Article Number: 105001 Published: OCT 2010				
16	C. Costin, V. Anita, F. Ghiorghiu, G. Popa, G. De Temmerman, M. A. van den Berg, J. Scholten, S. Brons, "Cross-section analysis of Magnum-PSI plasma beam using 2D multi-probe system", Plasma Sources Sci. Technol. 24 (2015) 015014 (10pp)	8	6.50	5	0.77
C5	2D measurements of plasma electron density using coherence imaging with a pixelated phase mask By: Allcock, J. S.; Silburn, S. A.; Sharples, R. M.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 92 Issue: 7 Article Number: 073506 Published: JUL 1 2021				

C4	ITER monoblock performance under lifetime loading conditions in Magnum-PSI By: Morgan, T. W.; Balden, M.; Schwarz-Selinger, T.; et al. PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014065 Published: JAN 1 2020				
C3	Intrinsic suppression of turbulence in linear plasma devices By: Leddy, J.; Dudson, B. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 59 Issue: 12 Article Number: 125011 Published: DEC 1 2017				
C2	Power deposition on misaligned castellated tungsten blocks in the Magnum-PSI and Pilot-PSI linear devices By: Morgan, T. W.; van den Berg, M. A.; De Temmerman, G.; et al. NUCLEAR FUSION Volume: 57 Issue: 12 Article Number: 126025 Published: DEC 2017				
C1	Investigation of arcing on fiber-formed nanostructured tungsten by pulsed plasma during steady state plasma irradiation By: Yajima, M.; Ohno, N.; Kajita, S.; et al. FUSION ENGINEERING AND DESIGN Volume: 112 Pages: 156-161 Published: NOV 15 2016				
17	I. Mihaila, M. L. Solomon, C. Costin, and G. Popa, „On Electrical Probes Used in Magnetized Plasma Diagnostics", Contrib. Plasma Phys. 53(1) (2013) 96 – 101	4	4.00	3	0.75
C3	Experimental and theoretical study of density, potential, and current structures of a helium plasma in front of an radio frequency antenna tilted with respect to the magnetic field lines By: Ledig, Jordan; Faudot, Eric; Moritz, Jerome; et al. CONTRIBUTIONS TO PLASMA PHYSICS Article Number: e202000072 Early Access: JUL 2020				
C2	Experimental and theoretical study of bumped characteristics obtained with cylindrical Langmuir probe in magnetized helium plasma By: Ledig, J.; Faudot, E.; Moritz, J.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 3 Article Number: 035007 Published: MAR 2020				
C1	Effective collecting area of a cylindrical Langmuir probe in magnetized plasma By: Usoltceva, Mariia; Faudot, Eric; Devaux, Stephane; et al. PHYSICS OF PLASMAS Volume: 25 Issue: 6 Article Number: 063518 Published: JUN 2018				
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C4	D retention and material defects probed using Raman microscopy in JET limiter samples and beryllium-based synthesized samples By: Pardanaud, C.; Kumar, M.; Roubin, P.; et al. Group Author(s): EUROfusion WP Pfc Contributors1; JET Contributors PHYSICA SCRIPTA Volume: 96 Issue: 12 Article Number: 124031 Published: DEC 2021				
C3	Ultra-Short Pulse HiPIMS: A Strategy to Suppress Arcing during Reactive Deposition of SiO(2)Thin Films with Enhanced Mechanical and Optical Properties By: Tiron, Vasile; Velicu, Ioana-Laura; Matei, Teodora; et al. COATINGS Volume: 10 Issue: 7 Article Number: 633 Published: JUL 2020				
C2	Effect of composition and surface characteristics on fuel retention in beryllium-containing co-deposited layers By: Hakola, Antti; Heinola, Kalle; Mizohata, Kenichiro; et al. Group Author(s): EUROfusion WP PFC Contributors PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014038 Published: JAN 1 2020				
C1	Atomic spectrometry update: review of advances in the analysis of metals, chemicals and materials By: Carter, Simon; Clough, Robert; Fisher, Andy; et al. JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY Volume: 34 Issue: 11 Pages: 2159-2216 Published: NOV 1 2019				

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C2	LIBS detection of erosion/deposition and deuterium retention resulting from exposure to Pilot-PSI plasmas By: Piip, K.; van der Meiden, H. J.; Hamarik, L.; et al. JOURNAL OF NUCLEAR MATERIALS Volume: 489 Pages: 129-136 Published: JUN 2017				
C1	Chemical erosion of carbon at ITER relevant plasma fluxes: Results from the linear plasma generator Pilot-PSI By: van Rooij, G. J.; Westerhout, J.; Brezinsek, S.; et al. Conference: 19th International Conference on Plasma-Surface Interactions in Controlled Fusion Devices (PSI) Location: Univ Calif, Gen Atom, San Diego, CA Date: MAY 24-28, 2010 Sponsor(s): Lawrence Livermore Natl Lab JOURNAL OF NUCLEAR MATERIALS Volume: 415 Issue: 1 Supplement: S Pages: S137-S140 Published: AUG 1 2011				
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C2	Auxiliary capacitor to enhance oscillation in circuit and reduce current onset delay in HiPIMS discharge : Theory, experiment and simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. SURFACE & COATINGS TECHNOLOGY Volume : 405 Article Number: 126518 Published: JAN 15 2021				
C1	Effects of the dynamic cathode sheath on electron transport at the initial period of HiPIMS pulse studied by Langmuir probe measurements and 2D PIC-MCC simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. Conference: 15th International Conference on Plasma Based Ion Implantation and Deposition (PBII and D) Location: Shenzhen, PEOPLES R CHINA Date: DEC 19-22, 2019 SURFACE & COATINGS TECHNOLOGY Volume : 403 Article Number: 126371 Published: DEC 15 2020				
21	V. Tiron, I.-L. Velicu, A. V. Nastuta, C. Costin, G. Popa, Z. Kechidi, C. Ionita and R. Schrittwieser, "Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode", Plasma Sources Sci. Technol. 27 (2018) 085005 (11 pp)	8	6.50	2	0.31
C2	Low-pressure hollow cathode plasma source carburizing technique at low temperature By: Liu, H. Y.; Che, H. L.; Li, G. B.; et al. SURFACE & COATINGS TECHNOLOGY Volume: 422 Article Number: 127511 Published: SEP 25 2021				
C1	New concept of metal ion thruster based on pulsed thermionic vacuum arc discharge By: Velicu, I-L; Tiron, V; Petrea, M-A; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 1 Article Number: 015006 Published: JAN 2021				
22	C. Costin, T. M. Minea, G. Popa, and G. Gousset, “Fluid Modelling of DC Magnetrons - Low Pressure Extension and Experimental Validation”, Plasma Process. & Polym. 4(S1) (2007) pp. S960-S964	4	4.00	2	0.50
C2	Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges By: Zheng, Bocong; Fu, Yangyang; Wang, Keliang; et al. PHYSICS OF PLASMAS Volume: 28 Issue: 1 Article Number: 014504 Published: JAN 2021				
C1	Application of dusty plasma for production of disperse composite materials By: Ivanov, A. S.; Pal, A. F.; Ryabinkin, A. N.; et al. RUSSIAN JOURNAL OF GENERAL CHEMISTRY Volume: 85 Issue: 5 Pages: 1270-1283 Published: MAY 2015				
23	C. Costin, T. M. Minea, G. Popa, and G. Gousset, “Plasma kinetics of Ar/O2 magnetron discharge by 2D multi-fluid modeling”, J. Vac. Sci. Technol. A 28(2) (2010), pp. 322-328	4	4.00	2	0.50

C2	Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges By: Zheng, Bocong; Fu, Yangyang; Wang, Keliang; et al. PHYSICS OF PLASMAS Volume: 28 Issue: 1 Article Number: 014504 Published: JAN 2021				
C1	Parametric computational study of sheaths in multicomponent Ar/O-2 plasma By: Hromadka, J.; Ibehej, T.; Hrach, R. Conference: 7th International Workshop and Summer School on Plasma Physics (IWSSPP) Location: Kiten, BULGARIA Date: JUN 26-JUL 02, 2016 Sponsor(s): St Kliment Ohridsky Univ Sofia; PLASMER Fdn 7TH INTERNATIONAL WORKSHOP AND SUMMER SCHOOL ON PLASMA PHYSICS (IWSSPP'16) Book Series: Journal of Physics Conference Series Volume: 982 Article Number: UNSP 012008 Published: 2018				
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C1	Effective collecting area of a cylindrical Langmuir probe in magnetized plasma By: Usoltceva, Mariia; Faudot, Eric; Devaux, Stephane; et al. PHYSICS OF PLASMAS Volume: 25 Issue: 6 Article Number: 063518 Published: JUN 2018				

C = **65.82**

4. Indicele Hirsch (h) **h =** **11**

T = A + I/2 + P/2 + C/20 + h/5 = **17.88**

11/10/2021