

Fișa de evaluare privind standardele minimale pe domeniul FIZICĂ

CS II dr. Alina ASANDEI

COMISIA DE FIZICĂ - STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE (ORDIN nr. 6129 din 20 decembrie 2016)

1. Activitatea didactică și profesională

Nr. Crt.	Tipul activităților	Indicatori
1	Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	$A_1 = \sum_i 4/n_i^{ef}$
2	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	$A_2 = \sum_i 1/n_i^{ef}$ 0.38
3	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	$A_3 = \sum_i 0.5/n_i^{ef}$
4	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	$A_4 = \sum_i 0.5/n_i^{ef}$ 0.5
5	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	$A_5 = \sum_i 0.2/n_i^{ef}$
6	Lucrări in extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	$A_6 = \sum_i 0.2/n_i^{ef}$
7.	Brevete de invenție internaționale acordate	$A_7 = \sum_i 3/n_i^{ef}$
8	Brevete de invenție naționale acordate	$A_8 = \sum_i 0.5/n_i^{ef}$
9	Director/responsabil/coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)	$A_9 = \sum_i 0.5$
10.	Director/ responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională (proiectele de la punctul 9 se exclud). Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.	$A_{10} = \sum_i V_i/100.000$ 1.23

A = 2.11

Criterii minimale pentru activitatea didactică și profesională: CS I, profesor universitar abilitare:

$$A = \sum_{i=1}^{10} A_i \geq 2$$

2. Activitatea de cercetare

Nr. crt.	Tipul activităților	Indicatori
1	Articole științifice originale in extenso ca autor	$I = \sum_i AIS_i / n_i^{ef}$ <p style="text-align: right;">I = 8.053</p>
2	Articole științifice originale in extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol. Nu se iau în considerare articolele la care autorii sunt indicați în ordinea alfabetică a numelui și candidatul este prim-autor exclusiv datorită numelui acestuia și ordonării alfabetice. În cazul publicațiilor HEPP (High Energy Partide Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a cărei aprobare în vederea trimerii la publicare a fost susținută de către autor, atunci autorul este considerat prim autor.	$P = \sum_i AIS_i$ <p style="text-align: right;">P = 27.634</p>

Criterii minimale pentru activitatea de cercetare: CS I, profesor universitar, abilitare:

$$I \geq 4, P \geq 4$$

3. Recunoașterea impactului activității

Nr. crt.	Tipul activităților	Indicatori
1	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. Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul	$C = \sum_i c_i / n_i^{ef}$ <p>unde c_i reprezintă numărul de citări în reviste ISI ale publicației i.</p> <p style="text-align: right;">C = 115.08</p>
2	Indicele Hirsch	h = 17

Criterii minimale pentru recunoașterea impactului activității: CS I, profesor universitar, abilitare: **C ≥ 40, h ≥ 10**

Punctajul total CNATDCU: T = A + P/2 + I/2 + C/20 + h/5

CS I, profesor universitar, abilitare: **T ≥ 12**

Punctajul total realizat: T = 2.11 + 27.634/2 + 8.053/2 + 115.08/20 + 17/5 = 30.931

$$T = 2.11 + 13.817 + 4.0265 + 5.754 + 3.4 = 29.107$$

Justificare punctaj

	A(Y)	B(Y)	C(X)	D(Y)	E(Y)	F(Y)	G(Y)	H(Y)	I(Y)	J(Y)
Long Nam	first auth		jurnal	AIS	N	N ef	nr. c	C	I	AIS-P
Units	(* contributed equally)			all		(N+5)/2	H=15 WebS	c/Nef	AISall/Nef	first*/eq nr
Comment						N>5				
F(x)=								Col(G)/Col(F)	Col(D)/Col(F)	
1	Bucataru, IC; Dragomir, I;	2022	BIOSENSORS-BASEL	0.876	8	6.5	0	0	0.13477	--
2	Mereuta, L; *Asandei, A;	2022	ANALYTICAL CHEMISTRY	1.297	6	5.5	0	0	0.23582	0.6485
3	Asandei, A; Mereuta, L	2022	CHEMISTRY-ASIAN JOURNAL	0.746	5	5	0	0	0.1492	0.746
4	Asandei, Mereuta	2021	Proteomics	1.063	5	5	0	0	0.2126	1.063
5	Luchian, Mereuta, Park	2021	Proteomics	--	5	5	0	0	--	--
6	Dragomir, IS; *Asandei, A;	2021	Polymers,	0.611	6	5.5	0	0	0.11109	0.3055
7	Schiopu, I	2021	STUDIA UNIV. B-B CHEMIA	0.051	6	5.5	0	0	0.00927	--
8	Asandei, A., Mereuta, L	2020	ACS App. Mat. and Int.	1.697	7	6	11	1.83333	0.28283	1.697
9	Mereuta, L; *Asandei, A;	2020	Scientific Reports,	1.285	8	6.5	8	1.23077	0.19769	0.6425
10	Ko, SJ	2020	Scientific Reports,	1.285	8	6.5	15	2.30769	0.19769	--
11	Asandei, A.	2020	Small Methods	3.152	7	6	31	5.16667	0.52533	3.152
12	Mereuta, L; *Asandei, A	2019	Analytical Chemistry	1.411	5	5	11	2.2	0.2822	0.7055
13	Asandei, A., Mereuta	2019	ACS Sensors	1.658	6	5.5	7	1.27273	0.30145	1.658
14	Luchian, T.	2019	Acc. of Chem. Re.	--	6	5.5	23	4.18182	--	--
15	Asandei, A; Dragomir, IS	2018	Polymers	0.7	6	5.5	7	1.27273	0.12727	0.7
16	Ciucu, A;* Asandei, A	2018	Analytical Chemistry	1.348	8	6.5	10	1.53846	0.20738	0.674
17	Asandei, A; Schiopu, I	2018	J OF MEMBRANE BIOLOGY	0.456	5	5	1	0.2	0.0912	0.456
18	Asandei, A; Rossini, AE	2017	Langmuir	0.964	5	5	46	9.2	0.1928	0.964
19	Asandei, A; Ciucu, A;	2017	Scientific Reports	1.356	8	6.5	6	0.92308	0.20862	1.356
20	Asandei, A; Schiopu, I;	2016	ACS App. Mat. and Int.	1.634	6	5.5	73	13.27273	0.29709	1.634
21	Asandei, A; Chinappi, M;	2015	ACS App. Mat. and Int.	1.5	7	6	27	4.5	0.25	1.5
22	Asandei, A; Chinappi, M	2015	Scientific Reports	1.9	7	6	39	6.5	0.31667	1.9
23	Mereuta, L; *Asandei, A;	2014	ACS App. Mat. and Int.	1.373	5	5	22	4.4	0.2746	0.6865
24	Mereuta, L.,	2014	Scientific Reports,	2.075	7	6	77	12.83333	0.34583	--
25	Asandei, A; Iftemi, S;	2014	J. of Membrane Biology,	0.726	5	5	13	2.6	0.1452	0.726
26	Asandei, A; Schiopu, I;	2013	Langmuir,	1.111	5	5	26	5.2	0.2222	1.111
27	Mereuta, L.,	2012	Langmuir,	1.177	6	5.5	22	4	0.214	--
28	Campos, E; Asandei, A;	2012	Langmuir,	1.177	8	6.5	15	2.30769	0.18108	0.5885
29	Mereuta, L.	2011	PLoS ONE	1.798	3	3	14	4.66667	0.59933	--
30	Asandei, A, Mereuta, L.	2011	J. of Physical Chemistry B	1.161	3	3	9	3	0.387	1.161
31	Asandei, A; Apetrei, A	2011	J MOLEC RECOGNITION	0.892	3	3	10	3.33333	0.29733	0.892
32	Asandei, A; Apetrei, A;	2011	Langmuir	1.248	5	5	11	2.2	0.2496	1.248
33	Apetrei, A;	2010	J Bioener Biomembranes	1.232	6	5.5	18	3.27273	0.224	--
34	Asandei, A, Mereuta, L	2008	Biophysical Chemistry	0.765	3	3	11	3.66667	0.255	0.765
35	Asandei, A	2008	COL SURF B-BIOINTERFACES	0.654	2	2	16	8	0.327	0.654
36										
37										
38										
39										
40										
								C = 115.08	I = 8.05	P = 27.634

1. Activitatea didactică și profesională: **A = 2.11**

1.2 Review-uri în reviste cotate ISI

- Single-molecule, hybridization-based strategies for short nucleic acids detection and recognition with nanopores Luchian, T; Mereuta, L; Park, Y; **Asandei, A**; Schiopu, I. **PROTEOMICS** 22 (5-6), e2100046, 2021

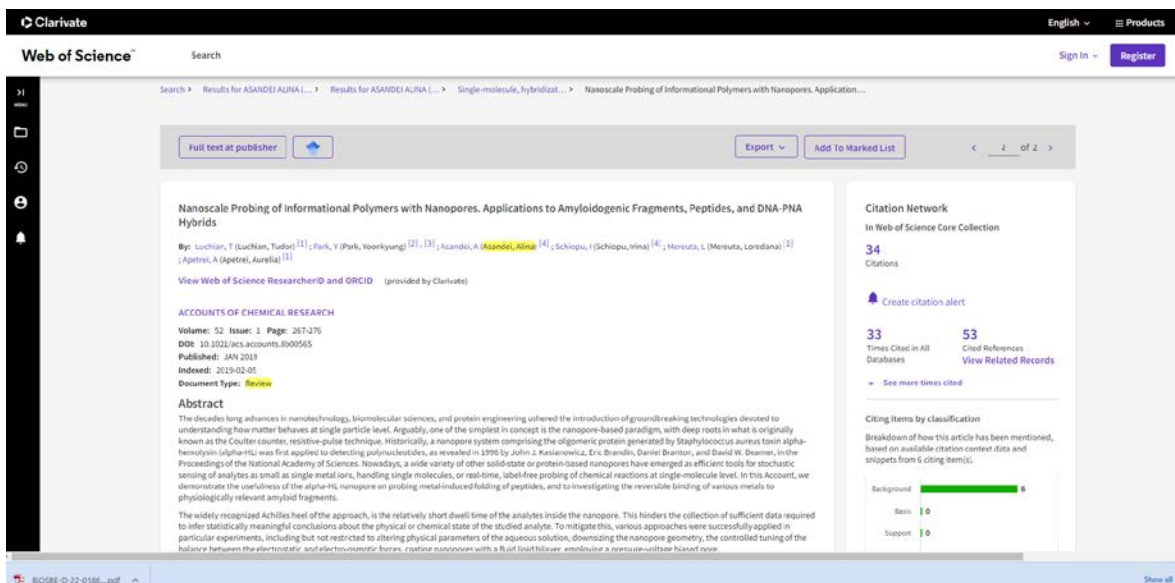
5 autori:

0.2

- Nanoscale Probing of Informational Polymers with Nanopores. Applications to Amyloidogenic Fragments, Peptides, and DNA-PNA Hybrids. Luchian, T; Park, Y; **Asandei, A**; Schiopu, I; Mereuta, L; Apetrei, A. **ACCOUNTS OF CHEMICAL RESEARCH** 52 (1), 267-276, 2019.

6 autori, nef=5.5

0.18



A₄ = 0.38

1.4. Cărți, manuale în edituri naționale ca autor:

- **Alina ASANDEI**, ‘Fenomene de transport în biofizica moleculară’ 2018, Editura Universității „Alexandru Ioan Cuza”- Iasi, 164 pagini

0.5

1.10. Director/responsabil pentru proiecte de cercetare în valoare V_i euro câștigate prin competiție națională sau internațională (proiectele de la punctul 9 se exclud). Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară.

- **Responsabil proiect Partener P1 (2015-2016)** în cadrul proiectului nr. 98/2012 PN II PCCA1 Tehnica imunochimica de analiza in faza omogena bazata pe nanoparticule functionalizate. Aplicatie pentru detectia contaminantului pesticidic acid 2,4-diclorofenoxiacetic din probe alimentare si de mediu (HINANODET) 2012-2015 (prelungire 2015-2016)/ 2.000.000 ron pe proiect/300.000 ron P1 -UAIC ~**68.000 euro (2015 - 2016)** rămas 23.000 euro

0.23

- **Director proiect (2018-2020)** în cadrul proiectului nr. 45 / 02.05.2018 PN-III-P1-1.1-TE-2016-0508 Identificarea unimoleculară a domeniilor aminoacidice din structura primară a polipeptidelor folosind nanopori proteici// Nanopore-based, pattern recognition on the primary structure of polypeptides at uni-molecular level, (PEPREC) 450.000ron ~100.000euro

1

A₁₀ = 1.23

2. Activitatea de cercetare (I și P) și 3. Recunoașterea impactului activității (C)

P = 27.634

I = 8.05

C = 115.080

Lista articolelor științifice (în ordinea în care sunt afișate în tabelul de mai sus) și citările corespunzătoare:

1. Bucataru, IC; Dragomir, I; **Asandei, A**; Pantazica, AM; Branza-Nichita, N; Park, Y; Luchian, T. Probing the Hepatitis B Virus E-Antigen with a Nanopore Sensor Based on Collisional Events Analysis, **BIOSENSORS-BASEL 2022**, 12, 596.
2. Mereuta, L; **Asandei, A**; Dragomir, I ; Park, J; Park, Y, [5] ; Luchian, T. A Nanopore Sensor for Multiplexed Detection of Short Polynucleotides Based on Length-Variable, Poly-Arginine-Conjugated Peptide Nucleic Acids, **Analytical Chemistry**, 2022, 94, 8774-8782.
3. **Asandei, A**; Mereuta, L; Bucataru, IC; Park, Y; Luchian, T. A Single-Molecule Insight into the Ionic Strength-dependent, Cationic Peptide Nucleic Acids-Oligonucleotides Interactions, **CHEMISTRY-AN ASIAN JOURNAL**, 2022, 17, e202200261.
4. **Asandei A.**, Mereuta L., Schiopu I., Park Y., Luchian T. Teaching an old dog new tricks: a lipid membrane-based electric immunosensor for real-time probing of the spike S1 protein subunit from SARS-CoV-2, **Proteomics 2021**, e2100047. ()

Citări:

1. Highlights on the current state of proteomic detection and characterization with nanopore sensors By: Robertson, JWF (Robertson, Joseph W. F.) [1] ; Reiner, JE (Reiner, Joseph E.) **PROTEOMICS**, 2022, 22, 5-6, SI, 2100061.

5. Luchian, T.; Mereuta, L.; Park, Y.; **Asandei, A.**; Schiopu, I. Single-molecule, hybridization-based strategies for short nucleic acids detection and recognition with nanopores, **Proteomics 2021**, e2100046. (fara a fi luat in calcularea lui I)

Citări:

1. Single-molecule analysis of DNA structures using nanopore sensors By: Li, FY; Luo, YH; Xi, GH; Fu, JY; Tu, J **CHINESE JOURNAL OF ANALYTICAL CHEMISTRY**, 2022, 50, 5, 100089.

2. Highlights on the current state of proteomic detection and characterization with nanopore sensors By: Robertson, JWF (Robertson, Joseph W. F.) [1] ; Reiner, JE (Reiner, Joseph E.) **PROTEOMICS**, 2022, 22, 5-6, SI, 2100061

6. Dragomir, I.S., **Asandei, A.**, Schiopu, I, Bucataru, I.C., Mereuta, L., Luchian, T. The Nanopore-Tweezing-Based, Targeted Detection of Nucleobases on Short Functionalized Peptide Nucleic Acid Sequences, **Polymers 2021**, 13 (8), 1210.
7. Schiopu Irina, **Asandei Alina**, Mereuta Loredana, Dragomir Isabela, Bucataru Ioana Cezara, Luchian Tudor. Single-molecule detection and manipulation with biological nanopores. *Studia Universitatis Babeș-Bolyai, Chemia* . 2021, 66 161-174.
8. **Asandei, A.**; Mereuta, L.; Schiopu, I.; Park, J.; Seo, C-H.; Park, Y.; Luchian, T. Non-Receptor-Mediated Lipid Membrane Permeabilization by the SARS-CoV-2 Spike Protein S1 Subunit, **ACS APPLIED MATERIALS & INTERFACES 2020**, 12(50), 55649-55658.

Citări:

1. Progressive membrane-binding mechanism of SARS-CoV-2 variant spike proteins By: Overduin, M (; Kervin, TA; Tran, A **ISCIENCE** 2022, 25, 8, 104722

2. HSP90 Inhibitors Modulate SARS-CoV-2 Spike Protein Subunit 1-Induced Human Pulmonary Microvascular Endothelial Activation and Barrier Dysfunction By: Biancatelli, RMLC; Solopov, P ; Gregory, B ; Khodour, Y ; Catravas, JD , **FRONTIERS IN PHYSIOLOGY** 2022, 13, 812199.

3. Multifaceted membrane binding head of the SARS-CoV-2 spike protein By: Tran, A; Kervin, TA; Overduin, M CURRENT RESEARCH IN STRUCTURAL BIOLOGY, 2022, 4,146-157
4. The Inhibition of SARS-CoV-2 3CL M-pro by Graphene and Its Derivatives from Molecular Dynamics Simulations/By: Wang, JW, Yu, Y, Leng, TL, Li, YY, Lee, ST 2021 (Early Access) | ACS APPLIED MATERIALS & INTERFACES
5. Millisecond dynamic of SARS-CoV-2 spike and its interaction with ACE2 receptor and small extracellular vesicles/By: Lim, K, Nishide, G, Yoshida, T, Watanabe-Nakayama, T, Kobayashi, A, Hazawa, M, Hanayama, R, Ando, T, Wong, RW 2021 | JOURNAL OF EXTRACELLULAR VESICLES 10 (14)
6. SAS: A Platform of Spike Antigenicity for SARS-CoV-2, By: Zhang, L, Cao, RF, Mao, TT, Wang, Y, Lv, DQ, Yang, LF, Tang, YY, Zhou, MD, Ling, YC, Zhang, GQ, Qiu, TY, Cao, ZW, 2021 FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY 9
7. The SARS-CoV-2 spike protein subunit S1 induces COVID-19-like acute lung injury in K18-hACE2 transgenic mice and barrier dysfunction in human endothelial cells/By: Biancatelli, RMLC (Biancatelli, Ruben M. L. Colunga) 1Solopov, PA (Solopov, Pavel A.) 1Sharlow, ER (Sharlow, Elizabeth R.) 2Lazo, JS (Lazo, John S.) 2Marik, PE (Marik, Paul E.) 3Catravas, JD (Catravas, John D./Aug 2021 | AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY 321 (2) , pp.L477-L484
8. A Fungal Defensin Targets the SARS-CoV-2 Spike Receptor-Binding Domain/Gao, B and Zhu, SY/Jul 2021 | JOURNAL OF FUNGI 7 (7)
9. Full-Length Computational Model of the SARS-CoV-2 Spike Protein and Its Implications for a Viral Membrane Fusion Mechanism/Nishima, W and Kulik, M/Jun 2021 | VIRUSES-BASEL 13 (6)
10. Year 2020: Science and Engineering Research Continues/Schanze, KS/Apr 7 2021 | ACS APPLIED MATERIALS & INTERFACES 13 (13) , pp.14799-14801
11. Why are we vaccinating children against COVID-19?/ By: Kostoff, RN (Kostoff, Ronald N.) Calina, D (Calina, Daniela) 1Kanduc, D (Kanduc, Darja) 2Briggs, MB (Briggs, Michael B.) Vlachoyiannopoulos, P (Vlachoyiannopoulos, Panayiotis) 3Svistunov, AA (Svistunov, Andrey A.) 4Tsatsakis, A (Tsatsakis, Aristidis)/2021 | TOXICOLOGY REPORTS 8 , pp.1665-1684
9. Loredana Mereuta[#], **Alina Asandei**, Isabela S. Dragomir, Ioana C. Bucataru, Jonggwan Park, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Sequence-specific detection of single-stranded DNA with a gold nanoparticle-protein nanopore approach **Scientific Reports, 2020 10 (1)**

Citări:

1. Advancement in Nanoparticle-based Biosensors for Point-of-care In vitro Diagnostics By: Khizar, S (Khizar, Sumera) [1] Elaissari, A (Elaissari, Abdelhamid) [1] ; Al-Dossary, AA (Al-Dossary, Amal Ali) [2] ; Zine, N (Zine, Nadia) [1] ; Jaffrezic-Renault, N (Jaffrezic-Renault, Nicole) [1] ; Errachid, A CURRENT TOPICS IN MEDICINAL CHEMISTRY 2022, 22 10, 807-833
2. Nanoparticle-assisted detection of nucleic acids in a polymeric nanopore with a large pore size/By: Zhang, YW (Zhang, Youwen) 1Chen, XH (Chen, Xiaohan) 1Wang, CM (Wang, Ceming) 2Chang, HC (Chang, Hsueh-Chia) 2Guan, XY (Guan, Xiyun)/Jan 15 2022 | BIOSENSORS & BIOELECTRONICS 196
3. Colorimetric and label free detection of gelatinase positive bacteria and gelatinase activity based on aggregation and dissolution of gold nanoparticles/By: Mortezaei, M (Mortezaei, Monireh) 1Dadmehr, M (Dadmehr, Mehdi) 1Korouzhdehi, B (Korouzhdehi, Behnaz) 2Hakimi, M (Hakimi, Mohammad) 3Ramshini, H (Ramshini, Hassan) /Dec 2021 | JOURNAL OF MICROBIOLOGICAL METHODS 191
4. Recent advances in ionic current rectification based nanopore sensing: a mini-review/By: Zhang, SJ (Zhang, Shujie) 1Chen, W (Chen, Wei) 1Song, LB (Song, Laibo) 1Wang, XH (Wang, Xiaohong) 1Sun, WL (Sun, Weilun) 1Song, PY (Song, Pengyun) 1Ashraf, G (Ashraf, Ghazala) 1Liu, B (Liu, Bo) 1Zhao, YD (Zhao, Yuan-Di)/Nov 2021 | SENSORS AND ACTUATORS REPORTS 3
5. Sub-10-nm-thick SiN nanopore membranes fabricated using the SiO₂ sacrificial layer process/Yanagi, I and Takeda, KI/Oct 8 2021 | NANOTECHNOLOGY 32 (41)
6. Nanomaterial-based biosensors for COVID-19 detection/By: Al-Douri, Y (Al-Douri, Yarub) 1, 2Khan, MM (Mansoob Khan, Mohammad) 3, 4Jennings, JR (Robert Jennings, James) 4, 5Abd El-Rehim, AF (Abd El-Rehim, Alaa F.)/Oct 2021 (Early Access) | CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES
7. Recent advances in biological nanopores for nanopore sequencing, sensing and comparison of functional variations in MspA mutants/By: Bhatti, H (Bhatti, Huma) 1Jawed, R (Jawed, Rohil) 2Ali, I (Ali, Irshad) 1Iqbal, K (Iqbal, Khurshid) 1Han, Y (Han, Yan) 1Lu, ZH (Lu, Zuhong) 1Liu, QJ (Liu, Quanjun) /Sep 8 2021 | RSC ADVANCES 11 (46) , pp.28996-29014
8. Biological nanopores elucidate the differences between isomers of mercaptobenzoic-capped gold clusters/By: Cox, BD (Cox, Bobby D.) 1Martin, CR (Martin, Charles R.) 1Bertino, MF (Bertino, Massimo F.) 1Reiner, JE (Reiner, Joseph E.) /Apr 7 2021 | PHYSICAL CHEMISTRY CHEMICAL PHYSICS 23 (13) , pp.7938-7947

10. Ko, Su Jin; Park, Eunji; **Asandei, Alina**; Choi, Jee-Young; Lee, Seung-Chul; Seo, Chang Ho; Luchian, Tudor; Park, Yoonkyung, Bee venom-derived antimicrobial peptide melectin has broad-spectrum potency, cell selectivity, and salt-resistant properties **SCIENTIFIC REPORTS**, 10(1), (2020)

Citări:

1. Chemical profiling and antimicrobial effect of Anatolian honey bee venom By: Sonmez, E (Sonmez, Emine) [1] ; Kekecoglu, M (Kekecoglu, Meral) [1] , [2] ; Bozdeveci, A (Bozdeveci, Arif) [3] ; Karaoglu, SA. *Toxicon*, 2022, 213, 1-6.
2. Strategies to Improve the Activity and Biocompatibility: Modification of Peptide Antibiotics By: Zhang, JQ (Zhang, Jiaqi) [1] ; Zhang, J (Zhang, Jin) [1] ; Wang, YT (Wang, Yitong) [1] ; Zhang, X (Zhang, Xin) [1] ; Nie, T (Nie, Ting) [2] , [3] ; Liu, YA. *FOODBORNE PATHOGENS AND DISEASE* 2022, 19, 6, 376-385.
3. Characterization of Bee Venom and Its Synergistic Effect Combating Antibiotic Resistance of *Pseudomonas aeruginosa* By: Kamel, A (Kamel, Abdallah) [1] ; Suleiman, WB (Suleiman, Waleed B.) [1] ; El-feky, A (El-feky, Abir) [2] ; El-Sherbiny, GM (El-Sherbiny, Gamal M.) [1] ; Elhaw, MH *EGYPTIAN JOURNAL OF CHEMISTRY* 2022, 65, 5, 297-306
4. Peptides as a therapeutic strategy against *Klebsiella pneumoniae* de Souza, CM (de Souza, Camila Maurmann) [1] ; da Silva, AP (da Silva, Allan Pires) [1] , [2] ; Oliveira, NG (Oliveira Junior, Nelson Gomes) [1] ; Martinez, OF (Martinez, Osmel Fleitas) [1] , [2] ; Franco, OL (Franco, Octavio Luiz) *TRENDS IN PHARMACOLOGICAL SCIENCES* 2022 43 (4).335-348.
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