



ANEXA I

Dr. Alina ASANDEI

FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
	1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	(60 puncte x factor de impact + 25) / număr autori 1373.53
	2. Articole științifice publicate <i>in extenso</i> în reviste indexate fără factor de impact	20 puncte / număr autori
	3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	15 puncte / număr autori 5
	4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori
		indexate în BDI: 15 puncte / număr autori
		alte categorii: 5 puncte / număr autori
	5. Cărți științifice publicate (doar prima ediție)	edituri academice internaționale: 100 puncte la 100 pagini / număr autori
		alte edituri internaționale: 70 puncte la 100 pagini / număr autori
		edituri academice naționale: 50 puncte la 100 pagini / număr autori
		alte edituri naționale: 20 puncte la 100 pagini / număr autori
	6. Cărți științifice traduse și publicate în edituri din străinătate	100 puncte la 100 pagini / număr autori
	7. Coordonarea și editarea de volume, traduceri și antologii	edituri academice internaționale: 60 puncte / număr autori
		alte edituri internaționale: 40 puncte / număr autori
		edituri academice naționale: 30 puncte / număr autori
		alte edituri naționale: 15 puncte / număr autori
	8. Articole publicate în dicționare și enciclopedii	edituri academice internaționale: 30 puncte / număr autori
		alte edituri internaționale: 20 puncte / număr autori
		edituri academice naționale: 15 puncte / număr autori
		alte edituri naționale: 5 puncte / număr autori
	9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	contracte internaționale – director: 100 puncte pentru fiecare
		contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare 53
		contracte naționale – director: 50 puncte pentru fiecare 500.000 lei 75



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
		contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare 104.07
	10. Contracte de cercetare în mediul de afaceri și sectorul public	organizații internaționale: 100 puncte pentru fiecare
		firmе multinaționale: 100 puncte pentru fiecare 100.000 Euro
		firmе naționale: 50 puncte pentru fiecare 500.000 Euro
		organizații administrative naționale: 40 puncte pentru fiecare 500.000 Euro
		alte organizații publice de nivel național: 30 puncte pentru fiecare 500.000 Euro
	11. Brevete	internaționale: 100 puncte / număr de autori
		naționale: 30 puncte / număr autori
	12. Citări și recenzii ale lucrărilor științifice	reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare 4336.703
		reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare 15.897
		monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare
		monografii academice din țară: 25 puncte / număr autori, pentru fiecare citare
	13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)	străinătate: 25 puncte pentru fiecare activitate
		țară: 10 puncte pentru fiecare activitate
	14. Profesor/cercetător invitat la universități/institute de cercetare	străinătate: 25 puncte pentru fiecare activitate
		țară: 10 puncte pentru fiecare activitate
	15. Editor/Membru în <i>Editorial Board & Advisory Board</i>	reviste cotate <i>Web of Science</i> : editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă
		reviste internaționale și alte reviste ale Universității: editor, 15 puncte pentru fiecare revistă; membru, 10 puncte pentru fiecare revistă
	16. Premii internaționale obținute printr-un proces de selecție	100 puncte / categorie / număr persoane
	17. Premii ale Academiei Române	50 puncte / categorie / număr personae
	18. Alte premii naționale ale instituțiilor culturale	20 puncte / categorie / număr personae 40
	19. Participări la manifestări științifice	internaționale: președinte comitet organizare/consiliu științific, 25 puncte



CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
		pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate 250
		naționale: președinte comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate 40
II. ACTIVITATEA DIDACTICĂ	1. Tratatate și manuale universitare	30 puncte la 100 pagini / număr de autori 49.2
	2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor și grupurilor de cercetare)	40 puncte pentru fiecare activitate
	3. Materiale suport curs, seminar, lucrări practice și programe	10 puncte pentru fiecare activitate
	4. Organizare de aplicații și practică de specialitate	5 puncte pentru fiecare activitate

Punctaj Total = 6343.03

**Justificare punctaj la FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII:****I. 1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact [(60 puncte x factor de impact + 25) / număr autori]**

1. Luchian, Tudor; Park, Yoonkyung; Asandei, Alina; Schiopu, Irina; Mereuta, Loredana; Apetrei, Aurelia, Nanoscale Probing of Informational Polymers with Nanopores. Applications to Amyloidogenic Fragments, Peptides and DNA-PNA Hybrids. Accounts of Chemical Research Accepted

IF = 20.955

Punctaj = 213.72

2. Alina Asandei, Dragomir Isabela S., Di Muccio Giovanni, Chinappi Mauro, Park Yoonkyung, Luchian Tudor. Single-Molecule Dynamics and Discrimination between Hydrophilic and Hydrophobic Amino Acids in Peptides, through Controllable, Stepwise Translocation across Nanopores. Polymers 10(8), 885, (2018).

IF = 2.935

Punctaj = 33.52

3. Ciuca Andrei, Asandei Alina, Schiopu Irina, Apetrei Aurelia, Mereuta Loredana, Seo Chang Ho, Park Yoonkyung, Luchian Tudor. Single Molecule, Real-Time Dissecting of Peptide Nucleic Acids-DNA Duplexes with a Protein Nanopore Tweezer. Anal. Chem., 90, 7682–7690, (2018).

IF = 6.042

Punctaj = 48.44

4. Alina Asandei, Schiopu Irina, Ciobanasu Corina, Park Yoonkyung, Luchian Tudor. If Squeezed, a Camel Passes Through the Eye of a Needle: Voltage-Mediated Stretching of Dendrimers Facilitates Passage Through a Nanopore. J. Membr. Biol. 251(3), 405-417, (2018).

IF = 1.638

Punctaj = 24.656

5. Alina Asandei, Aldo E Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian. Protein Nanopore-Based Discrimination Between Selected Neutral Amino Acids from Polypeptides. Langmuir, 33, 14451–14459 (2017).

IF = 3.833

Punctaj = 50.996

6. Alina Asandei, Andrei Ciuca, Aurelia Apetrei, Irina Schiopu, Loredana Mereuta, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Nanoscale Investigation of Generation 1 PAMAM Dendrimers Interaction with a Protein Nanopore. Scientific Reports, 7 (6167), (2017)

IF = 4.259

Punctaj = 35

6. Alina Asandei, Irina Schiopu, Mauro Chinappi, Chang Ho Seo, Yoonkyung Park, Tudor Luchian. Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation. Applied Materials & Interfaces 8 (20), 13166-13179, (2016).

IF = 7.145

Punctaj = 75.62

7. Alina Asandei, Mauro Chinappi, Hee-Kyoung Kang, Chang Ho Seo, Loredana Mereuta, Yoonkyung Park, Tudor Luchian, Acidity-Mediated, Electrostatic Tuning of Asymmetrically Charged Peptides Interactions with Protein Nanopores. ACS Applied Materials & Interfaces 7 (30), 16706-16714, (2015).

IF = 7.145

Punctaj = 64.81

8. Alina Asandei, Mauro Chinappi, Jong-kook Lee, Chang Ho Seo, Loredana Mereuta, Yoonkyung Park, Tudor Luchian, Placement of oppositely charged aminoacids at a polypeptide termini determines the voltage controlled braking of polymer transport through nanometer-scale pores. Scientific Reports, 5 (10419), (2015)

IF = 5.228

Punctaj = 48.38



9. Loredana Mereuta, Alina Asandei, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Quantitative Understanding of pH- and Salt-Mediated Conformational Folding of Histidine-Containing, beta-Hairpin-like Peptides, through Single-Molecule Probing with Protein Nanopores. ACS Applied Materials & Interfaces, 6, (15), 13242-13256 (2014)

IF = 6.723

Punctaj = 85.68

10. Alina Asandei, Sorana Iftemi, Loredana Mereuta, Irina Schiopu, Tudor Luchian, Probing of Various Physiologically Relevant Metals: Amyloid-beta Peptide Interactions with a Lipid Membrane-Immobilized Protein Nanopore, Journal of Membrane Biology, 247(6), 523-553 (2014)

IF = 2.457

Punctaj = 34.484

11. Loredana Mereuta, Mahua Roy, Alina Asandei, Jong Kook Lee, Yoonkyung Park, Ioan Andricioaei, Tudor Luchian. Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation, Scientific Reports, 4 (3885), (2014)

IF = 5.078

Punctaj = 47.097

12. Alina Asandei, Irina Schiopu, Sorana Iftemi, Loredana Mereuta, Tudor Luchian, Investigation of Cu²⁺ Binding to Human and Rat Amyloid Fragments A beta (1-16) with a Protein Nanopore, Langmuir, 29, (50), 15634-15642 (2013)

IF = 4.384

Punctaj = 57.608

13. Loredana Mereuta, Irina Schiopu, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian, Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide, Langmuir, 28, (49), 17079-17091 (2012)

IF = 4.187

Punctaj = 46.037

14. Elisa Campos, Alina Asandei, Colin E. McVey, Joao C. Dias, A. Sofia F. Oliveira, Claudio M. Soares, Tudor Luchian, Yann Astier, The Role of Lys147 in the Interaction between MPSA-Gold Nanoparticles and the alpha-Hemolysin Nanopore, Langmuir, 28, (44), 15643-15650, (2012)

IF = 4.187

Punctaj = 34.527

15. Loredana Mereuta, Alina Asandei, Tudor Luchian, Meet Me on the Other Side: Trans-Bilayer Modulation of a Model Voltage-Gated Ion Channel Activity by Membrane Electrostatics Asymmetry, PLOS ONE, 6 (9) e25276, (2011)

IF = 4.092

Punctaj = 90.173

16. Alina Asandei, Loredana Mereuta, Tudor Luchian, The Kinetics of Ampicillin Complexation by gamma-Cyclodextrins. A Single Molecule Approach, Journal of Physical Chemistry B, 115 (33), 10173-10181 (2011)

IF = 3.696

Punctaj = 82.253

17. Alina Asandei, Aurelia Apetrei, Tudor Luchian, Uni-molecular detection and quantification of selected beta-lactam antibiotics with a hybrid alpha-hemolysin protein pore, Journal of Molecular Recognition, 24 (2), 199-207 (2011)

IF = 2.286

Punctaj = 54.053

18. Alina Asandei, Aurelia Apetrei, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian, Investigation of Single-Molecule Kinetics Mediated by Weak Hydrogen-Bonds Within a Biological Nanopore, Langmuir, 27 (1), 19-24 (2011)

IF = 4.269

Punctaj = 56.228

19. Apetrei Aurelia, Asandei Alina, Park Yoonkyung, Hahm Kyung-Soo, Winterhalter Mathias, Luchian Tudor Unimolecular study of the interaction between the outer membrane protein OmpF from E. coli and an analogue of the



HP(2-20) antimicrobial peptide, Journal of Bioenergetics and Biomembranes, 42, 173-180, (2010)

IF = 4.015

Punctaj = 44.317

20. Alina Asandei, Tudor Luchian, Ion selectivity, transport properties and dynamics of amphotericin B channels studied over a wide range of acidity changes, Colloids and Surfaces B: Biointerfaces, 67, 99–106 (2008)

IF = 2.593

Punctaj = 90.29

21. Alina Asandei; Loredana Mereuta; Tudor Luchian, Influence of membrane potentials upon reversible protonation of acidic residues from the OmpF eyelet. Biophysical Chemistry, 135, 32-40, (2008)

IF = 2.362

Punctaj = 55.573

I.1: 1373.53 puncte

I. 3. Articole științifice publicate in extenso în reviste indexate BDI (15 puncte / număr autori)

1. Alina Asandei, Florin Pintilie, Tudor Luchian. Transport and Kinetic Features of Gold Functionalized Artificial Nanopores Romanian J. Biophys. 16, 273–281, 2006.

Punctaj = 5 puncte

I.3: 5 puncte

I.9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)

contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor

➤ **Membru in proiectul international de cercetare nr. 830/21.01.2015 (România - Coreea)**, cu titlul „Design and Development of Therapeutic AMPs against Epidemic Superbugs”/ perioada 2014-2019/ UAIC ~375.000 euro/7 membri

53 puncte

contracte naționale – director: 50 puncte pentru fiecare 500.000 lei

➤ **Responsabil proiect Partener P1** in 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/ 2.000.000 ron pe proiect/300.000 ron P1

30 puncte

➤ **Director de Proiect** in cadrul proiectului nr 45/2018 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)*

2018-2020/ 450.000 ron

45 puncte

Membru: contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei /numărul membrilor

1. ‘Studiul mecanismelor de rezistență la antibiotice prin impermeabilitate la bacteriile Gram-negative pe



membrane naturale și reconstituite’, CEEEX (VIASAN) nr.168/2006; perioada 2006-2008

350.000 ron / 2 membri echipa Partener

17.5 puncte

2. ‘Investigații nanoscopice ale interacțiunilor existente între biomembrane, toxine bacteriene și proteine implicate în transferul unor agenți antibacterieni prin biomembrane’, CEEEX (CERES) nr. 239/2006; perioada 2006-2008

429.237 ron / 4 membri echipa Coordonator

10.73 puncte

3. ‘Caracterizarea moleculară a mecanismelor de acțiune a peptidelor antimicrobiene și predicția *de novo* a unor structuri moleculare cu potențial antimicrobian sporit’, PN II nr. 61-16/2007(ANTIMPEP); perioada 2007-2010

429.816 ron / 5 membri echipa Partener 2

8.59 puncte

4. ‘Elucidarea mecanismelor de interacțiune a unor peptide citotoxice selectate cu celule tumorale, și optimizarea proprietăților lor anti-tumorale’, PN II nr. 62061/2008(PEPCITOTUM); perioada 2008-2011

400.000 ron / 5 membri echipa Coordonator

8 puncte

5. Ion sensing and separation through modified cyclic peptides, cyclodextrins and protein pores/ Detecția și separarea ionică prin intermediul peptidelor ciclice, al ciclodextrinelor și al porilor proteici, PN II IDEI PCCE nr.1/2012 (BIOSSENS); perioada 2012-2015; 1.200.000 ron/ 5 membri echipa Coordonator

24 puncte

6. Generarea și investigarea unor noi peptide antimicrobiene, cu dimensiune redusă. Corelarea structurii peptidelor cu funcția lor, Rational design and generation of synthetic, short antimicrobial peptides. Linking structure to function (BIOPEP), PN II PCCA tip1 nr.123/2012; perioada 2012-2015

700.000 ron / 5 membri echipa Coordonator

14 puncte

7. Studiarea interacțiilor la nivel uni-molecular cu ajutorul pensetei cu nanopori. Aplicații în investigarea interacțiunilor mediate de metale în hibridizarea bazelor necomplementare din acizi nucleici // A nanopore tweezer-based approach for studying intermolecular interactions at uni-molecular level. Application to exploring metal-mediated, mismatched base pairs hybridization in nucleic acids”, acronim NANOTWEEZ, PN-III-P4-ID-PCE-2016-0026, nr. 33 /12.07.2017 (2017-2019)

850.000 ron / 4 membri

21.25 puncte

I.9: 232.07 puncte

I. 12. Citări și recenzii ale lucrărilor Științifice /reviste de specialitate din străinătate:(10 + 20 x factor de impact) / număr autori, pentru fiecare citare IF-factor impact (punctaj calculat)

Alina Asandei, Schiopu Irina, Ciobanasu Corina, Park Yoonkyung, Luchian Tudor. If Squeezed, a Camel Passes Through the Eye of a Needle: Voltage-Mediated Stretching of Dendrimers Facilitates Passage Through a Nanopore. J. Membr. Biol. 251(3), 405-417, (2018).

1. Lipid Membranes and Reactions at Lipid Interfaces: Theory, Experiments, and Applications By: Bondar, Ana-Nicoleta; Keller, Sandro JOURNAL OF MEMBRANE BIOLOGY 251(3), 295-298, 2018

IF = 1.638 (8.552)



Alina Asandei, Aldo E Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian. Protein Nanopore-Based Discrimination Between Selected Neutral Amino Acids from Polypeptides. *Langmuir*, 33, 14451–14459 (2017).

1. The Utility of Nanopore Technology for Protein and Peptide Sensing By: Robertson, Joseph W. F.; Reiner, Joseph E. PROTEOMICS 18(18), 1800026, 2018

IF = 3.532 (16.128)

2. Protein sequencing via nanopore based devices: a nanofluidics perspective, By: Chinappi, Mauro; Cecconi, Fabio JOURNAL OF PHYSICS-CONDENSED MATTER 30(20), 204002, 2018

IF = 2.617 (12.468)

3. Peptide bond detection via graphene nanogaps: a proof of principle study By: Rossini, Aldo Eugenio; Gala, Fabrizio; Chinappi, Mauro; et al. NANOSCALE 10(13), 5928-5937, 2018

IF = 7.233 (30.932)

Alina Asandei, Irina Schiopu, Mauro Chinappi, Chang Ho Seo, Yoonkyung Park, Tudor Luchian. Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation. *Applied Materials & Interfaces* 8 (20), 13166-13179, (2016).

1. Versatile cyclodextrin nanotube synthesis with functional anchors for efficient ion channel formation: design, characterization and ion conductance By: Mamad-Hemouch, Hajar; Bacri, Laurent; Huin, Cecile; et al. NANOSCALE 10(32), 15303-15316, 2018

IF = 7.233 (25.777)

2. Controlling Interactions of Cyclic Oligosaccharides with Hetero-Oligomeric Nanopores: Kinetics of Binding and Release at the Single-Molecule Level By: Satheesan, Remya; Krishnan, Smrithi R.; Mahendran, Kozhinjampara R. SMALL, 14 (32), 1801192, AUG 9 2018

IF = 9.598 (33.66)

3. Single-File Protein Translocations through Graphene-MoS₂ Heterostructure Nanopores, By: Luan, Binquan; Zhou, Ruhong JOURNAL OF PHYSICAL CHEMISTRY LETTERS, 9(12), 3409-3415, 2018

IF = 8.709 (30.7)

4. Real-time Event Recognition and Analysis System for Nanopore Study By: Wang Hui-Feng; Huang Fei; Gu Zhen; et al. CHINESE JOURNAL OF ANALYTICAL CHEMISTRY 46(6), 843-850, 2018

IF = 0.824 (4.413)

5. Protein sequencing via nanopore based devices: a nanofluidics perspective By: Chinappi, Mauro; Cecconi, Fabio JOURNAL OF PHYSICS-CONDENSED MATTER 30(20), 204002, 2018

IF = 2.617 (10.39)

6. Analysis of Pore Formation and Protein Translocation Using Large Biological Nanopores By: Watanabe, Hirokazu; Gubbiotti, Alberto; Chinappi, Mauro; et al. ANALYTICAL CHEMISTRY 89(21), 11269-11277, 2017

IF = 6.042 (21.807)



7. Electro-osmotic capture and ionic discrimination of peptide and protein biomarkers with FraC nanopores By: Huang, Gang; Willems, Kherim; Soskine, Misha; et al. NATURE COMMUNICATIONS 8, 935, 16 2017

IF = 12.353 (42.843)

8. Mimicking wettability alterations using temperature gradients for water nanodroplets By: Bakli, Chirodeep; Hari, Sree P. D.; Chakraborty, Suman NANOSCALE 9(34), 12509-12515, 2017

IF = 7.233 (25.7767)

9. pH Change in Electroosmotic Flow Hysteresis By: Lim, Chun Yee; Lim, An Eng; Lam, Yee Cheong ANALYTICAL CHEMISTRY 89(17), 9394-9399, 2017

IF = 6.042 (21.80667)

10. Single Molecule Nanopore Spectrometry for Peptide Detection By: Chavis, Amy E.; Brady, Kyle T.; Hatmaker, Grace A.; et al. ACS SENSORS, 2(9), 1319-1328, 2017

IF = 5.711 (20.70333)

11. Translocation of Rigid Rod-Shaped Virus Through Solid-State Nanopore at Low Salt Concentration By: Gu, Dejian; Wang, Rongliang; Lu, Lichia; et al. NANOSCIENCE AND NANOTECHNOLOGY LETTERS, 9(5), 685-692, 2017

IF = 2.917 (11.39)

12. Peptide-Mediated Nanopore Detection of Uranyl Ions in Aqueous Media By: Roozbahani, Golbarg M.; Chen, Xiaohan; Zhang, Youwen; et al. ACS SENSORS, 2(5), 703-709, 2017

IF = 5.711 (20.70333)

13. Electroosmotic flow through an alpha-hemolysin nanopore By: Bonome, Emma Letizia; Cecconi, Fabio; Chinappi, Mauro MICROFLUIDICS AND NANOFUIDICS, 21(5), 96, 2017

IF = 2.384 (9.61333)

14. High-bandwidth nanopore data analysis by using a modified hidden Markov model By: Zhang, Jianhua; Liu, Xiuling; Ying, Yi-Lun; et al. NANOSCALE, 9(10), 3458-3465, 2017

IF = 7.233 (25.77667)

15. Nanopore sensor for copper ion detection using a polyamine decorated beta- cyclodextrin as the recognition element By: Guo, Yanli; Jian, Feifei; Kang, Xiaofeng RSC ADVANCES, 7(25), 15315-15320, 2017

IF = 2.936 (11.45333)

16. Probing driving forces in aerolysin and alpha-hemolysin biological nanopores: electrophoresis versus electroosmosis By: Boukhet, Mordjane; Piguet, Fabien; Ouldali, Hadjer; et al. NANOSCALE, 8(43), 18352-18359, 2016

IF = 7.233 (25.77667)



Acidity-Mediated, Electrostatic Tuning of Asymmetrically Charged Peptides Interactions with Protein Nanopores By: Asandei, A., Chinappi, M., Kang, H.-K., Seo, C.H., Mereuta, L., Park, Y., Luchian, T. ACS APPLIED MATERIALS & INTERFACES, 7(30), 16706-16714, (2015)

1. Electrochemical Confinement Effects for Innovating New Nanopore Sensing Mechanisms By: Ying, Yi-Lun; Gao, Rui; Hu, Yong-Xu; et al. SMALL METHODS, 2(6), UNSP 1700390, 2018

IF = 7.233 (22.09429)

2. Development of Biological Nanopore Technique in Non-gene Sequencing Application By: Yang Jie; Li Shuang; Wu Xue-Yuan; et al. CHINESE JOURNAL OF ANALYTICAL CHEMISTRY, 45(12), 1766-1773, 2017

IF = 0.824 (3.78286)

3. Structural stability of the photo-responsive DNA duplexes containing one azobenzene via a confined pore By: Meng, Fu-Na; Li, Zi-Yuan; Ying, Yi-Lun; et al. CHEMICAL COMMUNICATIONS 53(68), 9462-9465, 2017

IF = 6.319 (19.48)

4. Single Molecule Nanopore Spectrometry for Peptide Detection Chavis, Amy E.; Brady, Kyle T.; Hatmaker, Grace A.; et al. ACS SENSORS 2(9), 1319-1328, 2017

IF = 5.711 (17.74571)

5. Single-molecule nanopore enzymology By: Willems, Kherim; Van Meervelt, Veerle; Wloka, Carsten; et al. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 372(1726), 20160230, 2017

IF = 5.846 (18.13)

6. Hydrogen Peroxide Sensing Based on Inner Surfaces Modification of Solid-State Nanopore Zhu, Libo; Gu, Dejian; Liu, Quanjun NANOSCALE RESEARCH LETTERS 12, 422, 2017

IF = 2.833 (9.52)

7. Single Molecule Analysis of Self-Assembly Supramolecular Oligomers in Solution By: Meng, Fu-Na; Yao, Xuyang; Zhang, Junji; et al. ACS SENSORS: 1(12), 1398-1402, 2016

IF = 5.711 (17.74571)

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Quantitative Understanding of pH- and Salt-Mediated Conformational Folding of Histidine-Containing, beta-Hairpin-like Peptides, through Single-Molecule Probing with Protein Nanopores. By: Mereuta, L., Asandei, A., Seo, C.H., Park, Y., Luchian, T. ACS APPLIED MATERIALS & INTERFACES 6(15), 13242-13256, (2014)

1. The Utility of Nanopore Technology for Protein and Peptide Sensing By: Robertson, Joseph W. F.; Reiner, Joseph E. PROTEOMICS 18(18) Special Issue: SI 1800026, 2018

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2. Development of Biological Nanopore Technique in Non-gene Sequencing Application By: Yang Jie; Li Shuang; Wu Xue-Yuan; et al. CHINESE JOURNAL OF ANALYTICAL CHEMISTRY 45(12) 1766-1773, 2017

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5. Channel of viral DNA packaging motor for real time kinetic analysis of peptide oxidation states By: Wang, Shaoying; Zhou, Zhi; Zhao, Zhengyi; et al. BIOMATERIALS 126, 10-17, 2017

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3. Nanopore Investigation of the Stereoselective Interactions between Cu²⁺ and D,L-Histidine Amino Acids Engineered into an Amyloidic Fragment Analogue By: Schiopu, Irina; Iftemi, Sorana; Luchian, Tudor LANGMUIR 31(1), 387-396, JAN 13 2015

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29. Nanopore Investigation of the Stereoselective Interactions between Cu²⁺ and D,L-Histidine Amino Acids Engineered into an Amyloidic Fragment Analogue By: Schiopu, Irina; Iftemi, Sorana; Luchian, Tudor LANGMUIR 31(1), 387-396, 2015

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11. Superposition of an AC field improves the discrimination between peptides in nanopore analysis By: Jakova, Elisabet; Lee, Jeremy S. ANALYST 140(14), 4813-4819, 2015

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2. Protein Detection Through Single Molecule Nanopore By: Liu Yi; Yao Xu-Feng; Wang Hai-Yan CHINESE JOURNAL OF ANALYTICAL CHEMISTRY 46(6), E1838-E1846, 2018

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4. Label-Free Detection of DNA Mutations by Nanopore Analysis By: Chen, Xiaohan; Roozbahani, Golbarg M.; Ye, Zijiang; et al. ACS APPLIED MATERIALS & INTERFACES 10(14), 11519-11528, 2018

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8. Analytical applications for pore-forming proteins By: Kasianowicz, John J.; Balijepalli, Arvind K.; Ettetdgui, Jessica; et al. BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES 1858(3), Special Issue: SI 593-606, 2016

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4. Electroosmotic flow through an alpha-hemolysin nanopore By: Bonome, Emma Letizia; Cecconi, Fabio; Chinappi, Mauro MICROFLUIDICS AND NANOFUIDICS 21(5), 96, 2017

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5. Stochastic Detection of MPSA-Gold Nanoparticles Using a alpha-Hemolysin Nanopore Equipped with a Noncovalent Molecular Adaptor By: Campos, Elisa J.; McVey, Colin E.; Astier, Yann ANALYTICAL CHEMISTRY 88(12), 6214-6222, 2016

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6. Single Molecule Discrimination of Heteropolytungstates and Their Isomers in Solution with a Nanometer-Scale Pore By: Ettedgui, Jessica; Kasianowicz, John J.; Balijepalli, Arvind JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 138(23), 7228-7231, 2016

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- Sensing Single Mixed-Monolayer Protected Gold Nanoparticles by the alpha-Hemolysin Nanopore By: Campos, Elisa; McVey, Colin E.; Carney, Randy P.; et al. ANALYTICAL CHEMISTRY 85(21), 10149-10158, 2013

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Meet Me on the Other Side: Trans-Bilayer Modulation of a Model Voltage-Gated Ion Channel Activity by Membrane Electrostatics Asymmetry By: Mereuta, Loredana; Asandei, Alina; Luchian, Tudor PLOS ONE 6(9), e25276, (2011)

- Blocking ion channels induced by antifungal lipopeptide syringomycin E with amide-linked local anesthetics By: Zakharova, Anastasiia A.; Efimova, Svetlana S.; Schagina, Ludmila V.; et al. SCIENTIFIC REPORTS 8, 11543, 2018

IF = 4.122 (30.81333)

- Contributions of the membrane dipole potential to the function of voltage-gated cation channels and modulation by small molecule potentiators By: Pearlstein, Robert A.; Dickson, Callum J.; Hornak, Viktor BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES 1859(2), 177-194, 2017

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- Modifiers of Membrane Dipole Potentials as Tools for Investigating Ion Channel Formation and Functioning



By: Ostroumova, Olga S.; Efimova, Svetlana S.; Malev, Valery V. Edited by: Jeon, KW INTERNATIONAL REVIEW OF CELL AND MOLECULAR BIOLOGY, VOL 315 Book Series: International Review of Cell and Molecular Biology 315, 245-297, 2015

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6. Investigation of Channel-Forming Activity of Polyene Macrolide Antibiotics in Planar Lipid Bilayers in the Presence of Dipole Modifiers By: Efimova, S. S.; Schagina, L. V.; Ostroumova, O. S. ACTA NATURAE 6(4), 67-79, 2014

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8. The interaction of dipole modifiers with amphotericin-ergosterol complexes. Effects of phospholipid and sphingolipid membrane composition By: Ostroumova, Olga S.; Efimova, Svetlana S.; Mikhailova, Ekaterina V.; et al. EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 43(4-5), 207-215, 2014

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10. Evaluation of molecularity of rate-limiting step of pore formation by antimicrobial peptides studied using mitochondria as a biosensor By: Aliverdieva, Dinara; Mamaev, Dmitry; Snezhkova, Leona; et al. TOXICOLOGY IN VITRO 26(6), 939-949, 2012

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1. Single molecule characterisation of metal nanoparticles using nanopore-based stochastic detection methods By: Campos, Elisa J.; Yates, James SENSORS AND ACTUATORS B-CHEMICAL 255, 2032-2049 Part: 2, 2018

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2. Nanopore Single-Molecule Analysis of Metal Ion-Chelator Chemical Reaction By: Wang, Linlin; Yao, Fujun; Kang, Xiao-Feng ANALYTICAL CHEMISTRY 89(15), 7958-7965, 2017

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2. NMR Evidence for Grotthuss-like Proton Diffusion on the Surface of N-Alkyl-ammonium Micelles in Acidic Aqueous Solution By: Delpuech, Jean J.; Dupont-Leclercq, Laurence; Parant, Stephane; et al. JOURNAL OF SOLUTION CHEMISTRY 46(8), 1698-1720, AUG 2017

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4. Modifiers of the Dipole Potential of Lipid Bilayers By: Efimova, S. S.; Ostroumova, O. S. ACTA NATURAE 7(4), 70-79, 2015

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5. Investigation of Channel-Forming Activity of Polyene Macrolide Antibiotics in Planar Lipid Bilayers in the Presence of Dipole Modifiers By: Efimova, S. S.; Schagina, L. V.; Ostroumova, O. S. ACTA NATURAE 6(4), 67-79, 2014

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6. The interaction of dipole modifiers with amphotericin-ergosterol complexes. Effects of phospholipid and sphingolipid membrane composition By: Ostroumova, Olga S.; Efimova, Svetlana S.; Mikhailova, Ekaterina V.; et al. EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 43(4-5), 207-215, 2014

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1. SiO₂@Au Core–Shell Nanospheres Self-Assemble To Form Colloidal Crystals That Can Be Sintered and Surface Modified To Produce pH-Controlled Membranes Patricia Anne A. Ignacio-de Leon and Ilya Zharov Langmuir, 29(11), 3749–3756 2013

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I. 12 = 4352.6

I. 18. Alte premii naționale ale instituțiilor culturale

1. Woman's Annual Science and Technology Distinction for young researchers UAIC STAGES - **20 puncte**
2. IUVENTAS SCIENTIAE)- UAIC) 2016 - **20 puncte**

I. 18 = 40

I. 19. Participări la manifestări științifice:

Participări la manifestări științifice internaționale(raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate)

1. Mereuta L, Asandei A, and Luchian T, "*Influence of Membrane Electrostatics upon Reversible Protonation Reactions Taking Place on the Constriction Region of the Ompf Porin*", The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 – 31 May, 2008 (prezentare orală)



2. **Alina Asandei**, L. Mereuță, R. Chiriac, T. Luchian, The Influence of Superficial Charge and Ionic Strength Upon The Interaction Between B-Lactam Antibiotics and OmpF Porins, The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 – 31 May, 2008 (poster)
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4. **Alina Asandei**, Tudor Luchian Single molecule investigation of interaction between β -lactam antibiotic and the OmpF porin. The 8th International Conference on Physics of Advanced Materials (ICPAM-8) Romania, Iasi, June 04-07, 2008 (poster)
5. **Alina Asandei**, Tudor Luchian, Correlation between the electrical and mechanical properties of lipid membranes and the pore formation by magainin 2, IEEE, Romania, Iasi, 6-9 June 2009 (poster)
6. **Alina Asandei**, T. Luchian Effects of pH on transport properties and ionic selectivity of amphotericin B-induced channels 7th EBSA European Biophysics Congress, Genoa, Italy, 11-15 July, 2009, (poster)
7. A. Apetrei, **Alina Asandei**, Y. Park, K.-S. Hahm, M. Winterhalter, T. Luchian, Unimolecular study of the interaction between the outer membrane protein OmpF from E. coli and an analogue of the HP(2–20) antimicrobial peptide, AMP 2010 - Joint Australia-Croatia Workshop on Antimicrobial Peptides 8-13 Aug 2010, Split, Croatia (poster – **best poster prize**)
8. **Alina Asandei**, Aurelia Apetrei, Tudor Luchian, α hemolysin used as a stochastic sensor to unravel CH- π molecular interactions, Gordon Research Conference on Antimicrobial Peptides, May 15, 2011 - May 20, 2011, Il Ciocco, Lucca (Barga), Italy (poster)
9. T. Luchian, A. Apetrei, **A. Asandei**, L. Mereuta, *Interrogation of single-molecule chemistry with protein nanopores*, International conference "Processes in isotopes and molecules 2011, September 29- october 01, Cluj-Napoca, Romania (prezentare orală)
10. **A. Asandei**, L. Mereuta, Tudor Luchian, “A single molecule approach of the interaction between ampicillin and a hybrid α -haemolysin protein pore” „International Conference on Global Research and Education, interAcademia 2011, 26-29 September 2011, Sucevita, Romania (lucrare poster)
11. **A. Asandei**, L. Mereuta, Tudor Luchian, “A single molecule approach of the interaction between ampicillin and a hybrid α -haemolysin protein pore” „International Conference on Global Research and Education, interAcademia 2011, 26-29 September 2011, Sucevita, Romania (prezentare orală)
12. **Alina Asandei**, Aurelia Apetrei, and Tudor Luchian, Studying peptide-protein interactions in a biological nanoreactor, Third International Symposium on Antimicrobial Peptides 13-15 iunie 2012, Lille, Franta (poster).
13. **Alina Asandei**, Aurelia Apetrei, and Tudor Luchian, Single-channel investigation of the electrical and structural features that guide peptide translocation through biological nanopores, The 8th General Conference of Balkan Physical Union, 5-10 July 2012, Constanța, România (poster)
14. Sorana Iftemi, **Alina Asandei**, Tudor Luchian, Molecular structure changes of A β 1-16 peptide induce by transition metals 9th European Biophysics Congress EBSA Lisbon, Portugal 13-17 July 2013 (Poster)
15. Irina Schiopu, Loredana Mereuta, **Alina Asandei**, Tudor Luchian *Copper (II) binding to a histidine - containing chimera peptide: a single protein nanopore study* ESF-FEBS Conference on Biological Surfaces and Interfaces, 29 iunie - 6 iulie **2013**, San Feliu de Guixols, Cataloni, Spania (poster).



16. Tudor Luchian, Loredana Mereuta, Irina Schiopu, **Alina Asandei**, Sorana Iftemi and Aurelia Apetrei, Nanoscopic Interrogation of Molecular Interactions with Protein Nanopores, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13th-15th, **2014**, Brasov, Romania (**invited keynote presentation**)
17. Irina Schiopu, **Alina Asandei**, Sorana Iftemi, Loredana Mereuta, Liliana Chiribasa, Tudor Luchian, Single-Molecule Probing of Cu²⁺ Induced Folding on Human versus Rat Amyloid A β (1-16) Fragments, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13th-15th, **2014**, Brasov, Romania (**poster presentation**)
18. Loredana Mereuta, **Alina Asandei**, Daniela Ciumac, Tudor Luchian, Different Steps in Translocation of Peptides through a Protein Nanopore, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES **2014**, June 13th-15th, 2014, Brasov, Romania (**poster presentation**)
19. **Alina Asandei**, Sorana Iftemi, Loredana Mereuta, Irina Schiopu and Tudor Luchian, Investigating the Affinity of Various Physiologically Relevant Metals to Human A β (1-16) Peptides via Nanopore Sensing Techniques, 3rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES **2014**, June 13th-15th, 2014, Brasov, Romania (**poster presentation**)
20. **Alina ASANDEI**, Loredana MEREUTA, Tudor LUCHIAN, Single-molecule investigation of peptide conformational changes with a protein nanopore, Gordon Research Conferences frontiers of science - Membrane Protein Folding, 21-26 Iunie, 2015, Boston, SUA, (**poster presentation**)
21. **Alina Asandei**, Mauro Chinappi, Hee-Kyoung Kang, Chang Ho Seo, Loredana Mereuta, Yoonkyung Park, Tudor Luchian, pH-Dependent Interaction of Asymmetrically Charged Peptides with a Protein Nanopore, The 41st FEBS Congress, 3 – 8 Septembrie, 2016, Ephesus / Kuşadası, Turcia, (**poster presentation**)
22. Andrei Ciucă, **Alina Asandei**, Aurelia Apetrei, Irina Schiopu, Loredana Mereuță, Chang Ho Seo, Yoonkyung Park, Tudor Luchian, Uni-molecular study of the pH- and salt-dependent PAMAM dendrimers- α -hemolysin nanopore interactions, 19th IUPAB congress and 11th EBSA congress, July 16-20, Edinburgh, UK (**poster presentation**)
23. Izabela Dragomir, **Alina Asandei**, Tudor Luchian, Discriminating between Selected Neutral Aminoacids Flanked by Segments of Oppositely Charged Aminoacids Using a Protein Nanopore “IC-ANMBES 2018” 21-23 MAI 2018 Brasov, Romania
24. **Alina Asandei**, Aldo E. Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian Readout of Peptides Primary Structure at Nanoscale, Nanofluidics in physics and biology Institut Français de l'Education" on the ENS de Lyon Campus 9-12 july 2018 Lyon France (poster)
25. Mauro Chinappi, **Alina Asandei**, Fabio Cecconi, Tudor Luchian Capture and traslocation control of molecules inside nanopores Nanofluidics in physics and biology Institut Français de l'Education" on the ENS de Lyon Campus 9-12 july 2018 Lyon France (**prezentare orală**)

250 puncte

Participări la manifestări științifice naționale (raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate):

1. **Alina Asandei**, Pintilie, F., Luchian, T. „Characterisation of transport processes through L-cysteine functionalized nanopores”, FTEM Conference , Romania, Iasi, May 2006 (poster - **premiul I**)
2. **Alina Asandei**, Roxana Chiriac, Tudor Luchian, Artificially designed nanopores with pH-dependent, transport and kinetic features, The 5th International Conference on Global Research and Education, Inter-Academia, Romania, Iasi, 25-28 September 2006 (poster)



3. **Alina Asandei**, Roxana Chiriac, Loredana Mereuta, Tudor Luchian, Ergosterol-induced modulation of transport and kinetic activity of alamethicin in artificial lipid membranes, The IXth National Conference of Biophysics, Romania, Bucuresti, 11-13 May 2007 (poster)
4. **Alina Asandei** Tudor Luchian Effects of pH on transport properties and ionic selectivity of amphotericin B-induced channels International Conference on Fundamental and Applied Research in Physics, Romania, Iasi, 25-28 october 2007 (poster)
5. R. Chiriac, A. Asandei, L. Mereuta, Tudor Luchian, pH modulation of ion transport through alamethicin channels formed in phosphatidylcholine artificial membranes, A IX-a Conferinta Nationala de Biofizica 11-13 Mai 2007, Bucuresti (lucrare poster)
6. **Alina Asandei**, Loredana Mereuta, Roxana Chiriac, Tudor Luchian The influence of superficial charge and ionic strenght upon the interaction between β -lactam antibiotics and OmpF porins The Annual InterNational Conference of the Romanian Society of Biochemistry and Molecular Biology, Romania Bucuresti, 29 – 31 May, 2008 (poster)
7. Aurelia Apetrei, **Alina Asandei**, Yoonkynung Park, Kyung-Soo Hahm, Mathias Winterhalter, Tudor Luchian, Single-molecule description of certain antimicrobial peptides transit via OmpF porins TheX-th National Conference of Biophysics (CNB 2009), Romania, Cluj-Napoca, 1-3 October 2009 (prezentare orală)
8. T. Luchian, L. Mereuta, **A. Asandei**, A. Apetrei, *Single-molecule biophysics of pharmacological molecules interaction with protein pores and lipids*, Conferinta Nationala de Fizica – Iasi 23-25 septembrie 2010 (prezentare orală)
9. **Alina Asandei**, Aurelia Apetrei, Tudor Luchian, Single molecule investigations of the interactions between selected antimicrobial peptides and lipid membranes-inserted protein pores, Conferința Națională de Fizică, Romania, Iasi, 23-25 sept. 2010 (poster)
10. Tudor Luchian, Aurelia Apetrei, **Alina Asandei**, Loredana Mereuta, Interrogation of single-molecule chemistry with protein nanopores, "PROCESSES IN ISOTOPES AND MOLECULES" SEPTEMBER 29 - OCTOBER 01, 2011, CLUJ-NAPOCA ROMANIA (prezentare orală)
11. **L. Mereuta**, A. Asandei, T. Luchian, *A signal from the other side: the influence of membrane electrostatic asymmetry on alamethicin kinetic and transport features* 11-th National Conference of Biophysics, november 10-12, 2011, Sibiu, Romania (prezentare orală)
12. A. Asandei, **L. Mereuță**, T. Luchian, *Single Molecule Investigations of the pH-dependent Interaction Between Ampicillin and a Hybrid α -Haemolysin Protein Pore* 11-th National Conference of Biophysics, november 10-12, 2011, Sibiu, Romania (prezentare orală)
13. L. Mereuta, I. Schiopu, **A. Asandei**, A. Apetrei, T. Luchian Conferinta “Diaspora in Cercetarea Stiintifica si Invatamantul Superior din Romania”, Bucuresti, 25-28 Septembrie 2012, *Interrogation of chemical kinetics, one molecule at a time*, (prezentare orală)
14. Irina Schiopu, **Loredana Mereuta**, Alina Asandei, Tudor Luchian, *Analysis of copper ion induced peptide folding through a nanopore sensing technique*, 12th National Conference on Biophysics "CNB 2013", IAȘI, ROMANIA | JUNE 13-16, 2013 (prezentare orală)
15. **Alina Asandei**, Elisa Campos, Tudor Luchian, Sensing sulfonate coated gold nanoparticles with the α - hemolysin protein pore 12th National Conference on Biophysics Iasi, Romania 13-16th June 2013 (Poster)
16. **Alina ASANDEI**, Loredana MEREUTA, Tudor LUCHIAN, Braking of peptide passage across nanopores with oppositely charged aminoacids at the peptide termini, CNB 2015, 13th National Conference of Biophysics with International Participation, 4-6 Iunie 2015, Timisoara, Romania, (poster presentation)



17. **Alina ASANDEI**, Loredana MEREUTA, Tudor LUCHIAN, Study of Peptide Conformational Changes at Single-Molecule Level using a protein nanopore. 14th National Conference of Biophysics, 2-4 Iunie 2016, Cluj-Napoca, Romania, (poster presentation)
18. Irina Șchiopu, **Alina Asandei**, Loredana Mereuță, Sorana Iftemi, Tudor Luchian, Effect of Copper on Amyloid like peptides misfolding, 14th National Conference of Biophysics, June 2-4, 2016, Cluj-Napoca, Romania (poster presentation)
19. **Alina Asandei**, Loredana Mereuta, Aldo E. Rossini, Mauro Chinappi, Yoonkyung Park, Tudor Luchian Protein Nanopores – Useful Tools to Decipher the Properties and Composition of Peptides CNB 2018 – September 7-September 10, 2018 Bucharest, Romania (prezentare orală)
20. Isabela Dragomir, **Alina Asandei**, Tudor Luchian, Aldo E. Rossini, Mauro Chinappi, Yoonkyung Park Fingerprinting of Selected Amino Acids from Engineered Polypeptides using an α -Hemolysin Nanopore CNB 2018 – September 7-September 10, 2018 Bucharest, Romania (poster – **best poster prize**)

40 puncte

I. 19 = 290

Tratate și manuale universitare 30 puncte la 100 pagini / număr de autori

Fenomene de transport în biofizica moleculară Alina ASANDEI, Editura UNIVERSITĂȚII „ALEXANDRU IOAN CUZA” IAȘI

$(30 \times 164) / 100 = 49.2$

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