

Anexa 2a

Titlu proiect: DETECTIA SI SEPARAREA IONICA PRIN INTERMEDIUL PEPTIDELOR CICLICE, AL CICLODEXTRINELOR SI AL PORILOR PROTEICI

Categoria de proiect: IDEI COMPLEXE PCCE 0027

Contractul de finanțare: 1/2012

Manager proiect: Prof. dr. Luchian Tudor

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE				
1.	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
2.	Elisa Campos, Alina Asandei, Colin Edward McVey, Joao C. Dias, A. Sofia F. Oliveira, Claudio Manuel Soares, Tudor Luchian, Yann Astier	The Role of Lys147 in the Interaction between MPSA-Gold Nanoparticles and the α -Hemolysin Nanopore	Langmuir, 28(44), 15643-15650	2012
3.	Irina Schiopu, Loredana Mereuta, Aurelia Apetrei, Yoonkyung Park, Kyung-Soo Hahm, Tudor Luchian	The role of thryptophan spatial arrangement for antimicrobial-derived, membrane-active peptides adsorption and activity	Molecular BioSystems 8(11), 2860-2863	2012
4.	Luiza Buimaga-larinca, Adrian Calborean	The scalling of computational time as a function of number of processors for Quantum Monte Carlo study of CO molecule	Fifth Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science" RO-LCG 25-27 October, Cluj Napoca, Romania	2012
5.	Alina Asandei, Irina Schiopu, Sorana Iftemi, Loredana Mereuta, Tudor Luchian	Investigation of Cu ²⁺ binding to human and rat amyloid fragments A β (1-16) with a protein nanopore	Langmuir 29(50), 15634-15642	2013
6.	Luiza Buimaga-larinca, Cristian Morari	Adsorption of cysteine clusters on Au(110);(1 \times 1) surface: a DFT study	RSC Advances 3, 5036-5044	2013
7.	Diana Bogdan, Cristian Morari	Effect of van der Waals Interaction on the Geometric and Electronic Properties of DNA Nucleosides Adsorbed on Cu(111) Surface: A DFT	J. Phys. Chem. A 117(22), 4669–4678	2013

		Study		
8.	Tonia M. Di Palma, Attila Bende	Vacuum ultraviolet photoionization and ab initio Investigations of methyl tert-butyl ether (MTBE) clusters and MTBE-water clusters	Chemical Physics Letters 18-23, 561-562	2013
9.	Ioan Turcu and Mihaela Mic	Size dependence of molecular self-assembling in stacked aggregates. II. Heat exchange effects	J. Phys. Chem. B 117(30), 9083-9093	2013
10.	Luiza Buimaga-Iarinca, Cristian Morari	The effect of conformational symmetry upon the formation of cysteine clusters on Au(110)-(1×1) surface: a first principles study	J. Phys. Chem. C 117(39), 20351-20360	2013
11.	Mihaela Mic, Adrian Pirnau, Mircea Bogdan, Ioan Turcu	Inclusion complex of benzocaine and -cyclodextrin: 1H NMR and isothermal titration calorimetry studies	AIP Conference Proceedings 1565, 63-66	2013
12.	Luiza Buimaga-Iarinca, Calin G. Floare, Adrian Calborean, Ioan Turcu	DFT study on cysteine adsorption mechanism on Au(111) and Au(110)	AIP Conference Proceedings 1565, 29-33	2013
13.	I. Medrut, R. Turdean, R. Gropeanu, F. Pop, L. Toupet, N.D. Hadade, E. Bogdan, I. Grosu	Macrocycles with a phenothiazine core: synthesis, structural analysis, and electronic properties	Tetrahedron Letters 54, 1107-1111	2013
14.	Viola Maria Popov, Ana Maria Vladareanu, Horia Bumbea, Eugenia Kovacs, Mihaela G. Moiescu, Minodora Onisai, Maria-Minodora Iordache, Tudor Savopol	Assessment of changes in membrane properties of platelets from CML patients in different stages of the disease	Blood Coagulation & Fibrinolysis 25(2), 142-150	2014
15.	Loredana Mereuta, Roy Mahua, Asandei Alina, 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 (Nature Publishing Group) 4: 3885	2014
16.	Alina Asandei, Sorana Iftemi, Loredana Mereuta, Irina Schiopu, Tudor Luchian	Probing of Various Physiologically Relevant Metals: Amyloid-β Peptide Interactions with a Lipid Membrane-Immobilized Protein Nanopore	J. Membrane Biology 247(6), 523-530	2014
17.	Sorana Iftemi, Marta De Zotti, Fernando Formaggio, Claudio Toniolo, Lorenzo Stella, Tudor Luchian	Electrophysiology investigation of trichogin GA IV activity in planar lipid membranes reveals ion channels of well-defined size	Chemistry & Biodiversity 11(7), 1069-1077	2014
18.	Daniel Marconi, Alia Ungurean	The effect of substrate temperature on structural and morphological properties of Au/Si(111) thin films	Applied Surface Science 288, 166-171	2014
19.	Loredana Mereuta, Alina Asandei, Chang Ho Seo, Yoonkyung Park, and Tudor Luchian	Quantitative Understanding of pH- and Salt-Mediated Conformational Folding of Histidine-Containing, β-Hairpin-like Peptides, through Single-Molecule Probing with Protein Nanopores	ACS Applied Materials & Interfaces 6(15), 13242-13256	2014
20.	Bogdan Zorila, Mihaela Bacalum, Aurel I. Popescu, Mihai Radu	Log-Normal Deconvolution of Laurdan, Fluorescence Spectra - A Tool To Assess Lipid Membrane Fluidity	Romanian Reports in Physics, accepted	2014

21.	Mihaela Temelie, Diana Savu, Nicoleta Moisoi, Maria Luiza Flonta	Multiple Cellular Functions of PINK1, a Key Mitochondrial Kinase in Parkinson's Disease	Romanian Journal of Biophysics 24(3), 000-000	2014
22.	Petran, A.; Terec, A.; Bogdan, E.; Soran, A.; Lakatos, E., Grosu, I.	Thiophene-based macrocycles via the Suzuki-Miyaura cross-coupling reactions	Tetrahedron 70, 6803-6809	2014
23.	Novel nucleobase-decorated tripodands: synthesis and supramolecular properties,	Novel nucleobase-decorated tripodands: synthesis and supramolecular properties,	Synthesis (Stuttgart), 1229-1235	2014
24.	Irina Schiopu, Sorana Iftemi, Tudor Luchian	Nanopore investigation of the stereoselective interactions between Cu ²⁺ and D,L-histidine amino acids engineered into an amyloidic fragment analogue	Langmuir 31(1), 387-396	2015
25.	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 (Nature Publishing Group) 5:10419	2015
26.	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
27.	Mauro Chinappi, Tudor Luchian, Fabio Cecconi	Nanopore tweezers: Voltage-controlled trapping and releasing of analytes	Physical Review E 92, 032714	2015
28.	Mihaela Bacalum, Mihai Radu	Cationic Antimicrobial Peptides Cytotoxicity on Mammalian Cells: An Analysis Using Therapeutic Index Integrative Concept	International Journal of Peptide Research and Therapeutics 21(1), 47-55	2015
29.	Diana Savu, Ileana Petcu, Mihaela Temelie, Cosmin Mustaciosu, Nicoleta Moisoi	Compartmental stress responses correlate with cell survival in bystander effects induced by the DNA damage agent, bleomycin	Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis 771, 13-20	2015
30.	Alia Colniță, Daniel Marconi & Ioan Turcu	Fabrication of Interdigitated Electrodes Using Molecular Beam Epitaxy and Optical Lithography	Anal. Lett., acceptat, DOI: 10.1080/00032719.2015.1033719	2015
31.	Daniel Marconi, Alia Colniță & Ioan Turcu	The Influence of Deposition Rate on the Structure and Morphology of Gold/Silicon(111) Growth by Molecular Beam Epitaxy	Anal. Lett., acceptat, DOI: 10.1080/00032719.2015.1022823	2015
32.	Tonia M. Di Palma, Attila Bende	Encasing of Na ⁺ ion in dimer-formed acetic acid clusters	Journal of Mass Spectrometry 50(10), 1136–1143	2015
33.	Adrian Calborean, Flavia Martin, Daniel Marconi, Rodica Turcu, Irina E. Kacso, Luiza Buimagarinca, F. Graur, Ioan Turcu	Adsorption mechanisms of L-Glutathione on Au and controlled nano-patterning through Dip Pen Nanolithography	Materials Science and Engineering C 57, 171-180	2015

34.	Eugenia Kovacs, Tudor Savopol, Maria Minodora Iordache, Mihaela Georgeta Moisescu, Viola Popov, Ana Vladareanu, Horia Bumbea	Hemorrhagic risk due to platelet dysfunction in myelodysplastic patients, correlations with anemia severity and iron overload	BLOOD COAGULATION & FIBRINOLYSIS 26(7), 743-749	2015
35.	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	ACS Applied Materials & Interfaces 8(20), 13166-13179	2016
36.	Flavia Martin, Daniel Marconi, Silvia Neamtu, Teodora Radu, Monica Florescu, Rodica Turcu, Claudia Lar, Niculina Hadade, Ion Grosu, Ioan Turcu	"Click" access to multilayer functionalized Au surface: a terpyridine patterning example	Chempluschem (under evaluation)	2016
37.	Mihaela Bacalum, Bogdan Zorila, Mihai Radu	Investigating the anticancer activity of some cationic antimicrobial peptides in epithelial tumor cells	Romanian Reports in Physics 68(3)	2016
38.	Bogdan Zorila, Mihaela Bacalum, Mihai Radu, Aurel Popescu	Log-normal deconvolution of Laurdan fluorescence spectra - A tool to assess lipid membrane fluidity	Romanian Reports in Physics 68(2), 702-712	2016
39.	Mihaela Temelie, Ileana Mihaela Petcu, Cosmin Catalin Mustaciosu, Iulia Diana Savu, Daniela Stroe, Nicoleta Moiso	Bystander effects and compartmental stress response to X-ray irradiation in L929 cells	Radiation and Environmental Biophysics 55(3), 371-379	2016
40.	Maria-Cristina Pascanu, Elena Bogdan, Anamaria Terec, Ion Grosu, Niculina Hadade	Synthesis and ES(+)-MS Complexation Studies of New Eight- and Twelve-Membered Cyclic Peptides	Tetrahedron Letters (under evaluation)	2016
41.	Mihaela Temelie, Cosmin Catalin Mustaciosu, Iulia Diana Savu	Cellular differentiation exacerbates radiation sensitivity in vitro in a human dopaminergic neuronal model	Romanian Reports in Physics (accepted)	2016
CARTI				
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DOCUMENTATIE TEHNICA, BREVETE				
1	Dorobanțu Ioan, Neagu Livia	"Procedure of obtainment of polyethyleneterephthalate-hexamethylenediamino-peroxidase"	OSIM A/00920/03.12.2012	2012
COMUNICARI STIINTIFICE NATIONALE				
1	Irina Schiopu, Loredana Mereuta, Alina Asandei, Tudor Luchian	<i>Analysis of copper binding induced peptide folding through a nanopore sensing technique</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Iasi, Romania	2013
2	Liliana Chiribasa, Irina Schiopu, Tudor Luchian	<i>Melittin affinity enhancement through a dipole potential modifying agent</i>	12 th National Conference on	2013

			Biophysics, international participation, 16 th June 2013, Romania	with 13-16 th Iasi,	
3	Daniela Ciumac, Loredana Mereuta, Aurelia Apetrei and Tudor Luchian	<i>Physicochemical characteristics of the medium which guide peptide translocation through protein pores</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
4	Sorana Iftemi, Alina Asandei, Tudor Luchian	<i>Single molecular investigation of conformational changes induced by copper or zinc metal ions upon truncated amyloid beta of human origin</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
5	Ioan Turcu, Mihaela Mic, Mircea Bogdan	<i>Molecular self-assembly through π-stacking interactions</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
6	Silvia Neamtu, Mihaela Mic, Mircea Bogdan, Ioan Turcu	<i>Is stavudine binding to human serum albumin? Fluorescence spectroscopy and ITC study</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
7	Adrian Pirnau, Mihaela Mic, Mircea Bogdan, Ioan Turcu	<i>Inclusion complex studies of procaine hydrochloride and β-cyclodextrin by ¹H NMR and isothermal titration calorimetry (ITC)</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
8	Mihaela Mic, Adrian Pirnau, Ioan Turcu, Mircea Bogdan	<i>Inclusion complex of local anesthetic and β-cyclodextrin: Isothermal titration calorimetry and ¹H NMR studies</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
9	Lorant Janosi, Matteo Ceccarelli	<i>The Gating Mechanism of the Human Aquaporin 5</i>	12 th National Conference on Biophysics, international participation, 13-16 th June 2013, Romania	with 13-16 th Iasi,	2013
10	Isabela Dragomir, Andreea Filip, Aurelia Apetrei, Loredana	<i>A lipid-protein system useful for the study of biomolecules at the single-molecule level</i>	43 th National Conference FTEM, 16-17 May 2014, Iasi,		2014

	Mereuta		Romania	
11	Isabela Dragomir, Aurelia Apetrei	<i>Influența tăriei ionice asupra interacțiunii dintre peptide cationice și porul proteic de α-hemolizină</i>	FARPHYS 2014, 25 October 2014, Iasi, Romania	2014
12	Andreea Filip, Loredana Mereuta	<i>Biosenzori moleculari utilizati în detectia unor peptide antimicrobiene</i>	FARPHYS 2014, 25 October 2014, Iasi, Romania	2014
13	Ion Grosu	<i>Macrocyclic Hosts and H-bonding Self-assembled Aggregates: Synthesis, Structure and Dynamics</i>	a XXXIII-a Conferință Națională de Chimie, 1-3 october 2014, Căciulata, Romania	2014
14	Ioana Georgeta Grosu, Claudia Lar, Ion Grosu	<i>Synthesis of Some Macrocycles With Biphenyl Units</i>	a XXXIII-a Conferință Națională de Chimie, 1-3 october 2014, Căciulata, Romania	2014
15	Schiopu Irina, Iftemi Sorana, Apetrei Aurelia, Luchian Tudor	Nanopore-based assay for chiral recognition by metals	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
16	Sorana Iftemi, Marta de Zotti, Fernando Formaggio, Claudio Toniolo, Lorenzo Stella, Tudor Luchian	Electrophysiology studies of Trichogin GA IV activity in reconstituted planar lipid membranes	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
17	Alina Asandei, Loredana Mereuta, Tudor Luchian	<i>Braking of peptide passage across nanopores with oppositely charged aminoacids at the peptide termini</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
18	Mihaela Bacalum, Florina Zorila	<i>Therapeutic potential of de novo synthesized antimicrobial peptides</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
19	Ioan Dorobantu, Livia Neagu, Mihaela Bacalum, Cristina Ionescu, Cristian Ion, Antoniu Moldovan	<i>Obtaining of nanoimunosorbent SiO₂-2,4dichlorophenoxyacetic acid and its physico-chemical characterization</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
20	Bogdan Zorila, Mihaela Bacalum, Aurel Popescu	<i>Study of the interaction between antimicrobial peptides and model cell membranes by time resolved fluorescence</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6,	2015

			2015, Timisoara, Romania	
21	Lorant Janosi, Ioan Turcu	<i>Mechanisms of Interaction of Short Arginine-, Tryptophan- and Histidine-Based Antimicrobial Peptides with Lipid Membranes</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
22	Luiza Buimaga-Iarinca, Silvia Neamtu, Ioan Turcu	<i>Quantitative analysis of stress-induced changes on RBCs membrane flickering</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
23	Silvia Neamtu, Mihaela M Mic, Ioan Turcu	<i>Reporting negative results may increase a paper's impact. The artifactual nature of stavudine binding to human serum albumin</i>	13 th National Conference on Biophysics CNB 2015, with International Participation, June 4-6, 2015, Timisoara, Romania	2015
24	Mihaela Temelie, Nicoleta Moiso, Diana Savu	<i>PINK1 loss of function increases cellular sensitivity to genotoxic stress and inhibits bystander signaling in neurons and fibroblasts</i>	The 6 th Conference of the National Neuroscience Society of Romania (SNN) "Neuroplasticity in health and disease", 29 – 31 October 2015, Bucharest, Romania	2015
25	Alia Colnita, Sorin Daniel Marconi, Bratfalean Radu, Ioan Turcu	<i>Fabrication of nanostructured, homoepitaxial silicon films for biosensing applications</i>	The 14 th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
26	Sorin Daniel Marconi, Alia Colnita, Bogdan Cozar, Ioan Turcu	<i>Epitaxial growth of nanometer-sized FePc on Au/Si(111) substrate by molecular beam epitaxy method</i>	The 14 th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
27	Irina Schiopu, Alina Asandei, Loredana Mereuta, Sorana Elena Iftemi, Tudor Luchian	<i>Effect of copper on amyloid-like peptides misfolding</i>	The 14 th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
28	Alina Asandei, Loredana Mereuta, Tudor Luchian	<i>Study of Peptide Conformational Changes at Single-Molecule Level using a protein nanopore</i>	The 14 th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
29	Mihaela Temelie, Cosmin Catalin Mustaciosu, Iulian Diana Savu	<i>Cellular differentiation exacerbates radiation sensitivity in vitro in a human dopaminergic neuronal model</i>	Faculty of Physics 2016 Meeting, 29 June – 01 July 2016, Magurele,	2016

			Romania	
30	Mihaela Bacalum, Nick Smisdorn, Marcel Ameloot	<i>A New BODIPY Probe for Lipid Membranes</i>	The 14th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
31	Bogdan Zorila, Mihaela Bacalum	<i>The development and applications of a simple fluorescence lifetime spectrometer</i>	The 14th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
32	Ileana Mihaela Petcu, Iulia Diana Savu, Roxana Cristina Popescu, Ecaterina Andronescu, Andrei Apostol, Mihai Straticiu, Georgeta Voicu, Laurentiu Mogoanta, George Dan Mogosanu, Roxana Trusca, Bogdan Vasile, Alexandru Mihai Grumezescu	<i>n Approach for Low Dose Radiotherapy Improvement using Functionalized Magnetite Nanoparticles</i>	Faculty of Physics 2016 Meeting, 29 June – 01 July 2016, Magurele, Romania	2016
33	Roxana Cristina Popescu, Ecaterina Andronescu, Alexandru-Mihai Grumezescu, Iulia Diana Savu	<i>Nanoparticule de Magnetită Funcționalizate cu Doxorubicină pentru Îmbunătățirea Radioterapiei la Doze Mici</i>	Sesiunea de Comunicări Științifice Studențești, Facultatea de Chimie Aplicată și Știința Materialelor (SIMONA), 13 May 2016, Bucharest, Romania	2016
34	Eugenia Kovacs, Maria Minodora Iordache, Tudor Savopol, Mihaela Georgeta Moiescu, Luciana Pavelescu, Luminita Miclea	<i>Oxygen Species Generation in OK Cells Treated with Aminoglycosides</i>	The 14th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
35	Tudor Savopol, Mihaela Georgeta Moiescu, Valentina Gabriela Rapei	<i>Fluorescent evaluation of cellular resting transmembrane potential – challenges and achievements</i>	The 14th National Conference of Biophysics, 02 – 04 June 2016, Cluj-Napoca, Romania	2016
COMUNICARI STIINTIFICE INTERNATIONALE				
1	Luiza Buimaga-Iarinca, Adrian Calborean, Cristian Morari, Ioan Turcu	<i>Electronic structure of cysteine dimers adsorbed on gold: a DFT study</i>	9 th International Conference on Physics of Advanced Materials, 20 - 23 September 2012, Iasi, Romania	2012
2	Luiza Buimaga-Iarinca, Adrian Calborean	<i>The scaling of computational time as a function of number of processors for Quantum Monte Carlo study of CO molecule,</i>	Fifth Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science" RO-LCG 2012, 25-27 October, Cluj Napoca, Romania	2012
3	Irina Schiopu, Loredana	<i>Copper(II) binding to a histidine -</i>	FEBS Workshop,	2013

	Mereuta, Alina Asandei, Tudor Luchian	<i>containing chimera peptide: a single protein nanopore study</i>	Biological Surfaces and Interfaces, 30 June - 05 July 2013, Sant Feliu de Guixols, Catalonia, Spain	
4	Sorana Iftemi, Alina Asandei, Tudor Luchian	<i>Molecular structure changes of Aβ1-16 peptide induce by transition metals</i>	9th European Biophysics Congress EBSA, 13-17 July 2013, Lisbon, Portugal	2013
5	Ioan Turcu, Mihaela Mic, Mircea Bogdan	<i>π-Stacking induced molecular self-association</i>	9th European Biophysics Congress EBSA, 13-17 July 2013, Lisbon, Portugal	2013
6	Luiza Buimaga Iarinca, Cristian Morari	<i>Self-assembly of cysteine on Au(110)-(1x1): a first principles study</i>	9th European Biophysics Congress EBSA, 13-17 July 2013, Lisbon, Portugal	2013
7	Lorant Janosi, Matteo Ceccarelli	<i>The Gating Mechanism of the Human Aquaporin 5</i>	9th European Biophysics Congress EBSA, 13-17 July 2013, Lisbon, Portugal	2013
8	Luiza Buimaga-Iarinca, Cristian Morari, Felix Farcas, Adrian Bot	<i>Challenges in computational nanotechnology: a case study</i>	Mathematical Modeling and Computational Physics Conference, July 8 - July 12, 2013, Dubna, Russia	2013
9	Luiza Buimaga-Iarinca, Calin Floare, Adrian Calborean and Ioan Turcu	<i>DFT Study On Cysteine Adsorption Mechanism On Au(111) And Au(110)</i>	International Conference on Processes in Isotopes and Molecules (PIM), 25-27th September 2013, Cluj-Napoca, Romania	2013
10	Adrian Pirnau, Mihaela Mic, Mircea Bogdan, Ioan Turcu	<i>Characterization of β - cyclodextrin inclusion complex with procaine hydrochloride by ^1H NMR and ITC</i>	International Conference on Processes in Isotopes and Molecules (PIM), 25-27th September 2013, Cluj-Napoca, Romania	2013
11	Daniel Marconi, Alia Ungurean, Radu Bratfalean	<i>The influence of deposition rate on structural and morphological properties of gold thin films on Si (111)</i>	International Conference on Processes in Isotopes and Molecules (PIM), 25-27th September 2013, Cluj-Napoca, Romania	2013
12	Mihaela Mic, Adrian Pirnau, Mircea Bogdan, Ioan Turcu	<i>Inclusion complex of benzocaine and β-cyclodextrin: ^1H NMR and Isothermal titration calorimetry studies</i>	International Conference on Processes in Isotopes and Molecules (PIM), 25-27th September 2013, Cluj-Napoca, Romania	2013
13	Alia Colnita, Daniel Marconi, Ioan Turcu	<i>Fabrication of Interdigitated Electrodes Using Molecular Beam Epitaxy and Optical Lithography Techniques and Its Applications in Molecular Detection</i>	3rd Ed. of International Conference on Analytical and Nanoanalytical Methods	2014

			for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	
14	Tudor Luchian, Loredana Mereuta, Irina Schiopu, Alina Asandei, Sorana Iftemi and Aurelia Apetrei	<i>Nanoscopic Interrogation of Molecular Interactions with Protein Nanopores</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
15	Lorant Janosi, Attila Bende, Ioan Turcu	<i>Molecular Interactions of Antimicrobial Peptides with Cell Membrane Models by Means of Molecular Modeling</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
16	Mihaela Mic, Adrian Pirnau, Mircea Bogdan, Ioan Turcu	<i>Comparative Binding Affinity of Two General Anaesthetics to β-Cyclodextrin</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
17	Irina Schiopu, Alina Asandei, Sorana Iftemi, Loredana Mereuta, Liliana Chiribasa, Tudor Luchian	<i>Single-Molecule Probing of Cu^{2+} Induced Folding on Human versus Rat Amyloid $A\beta(1-16)$ Fragments</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-18ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
18	Aurelia Apetrei and Tudor Luchian	<i>Sequential Tracking of the Translocation Pathway of Short, Tryptophan Rich, Cationic Peptides through a Protein Pore with Non-Uniform Diameter</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
19	Loredana Mereuta, Alina Asandei, Daniela Ciumac, Tudor Luchian	<i>Different Steps in Translocation of Peptides through a Protein Nanopore</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and	2014

			Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	
20	Alina Asandei, Sorana Iftemi, Loredana Mereuta, Irina Schiopu and Tudor Luchian	<i>Investigating the Affinity of Various Physiologically Relevant Metals to Human Aβ(1-16) Peptides via Nanopore Sensing Techniques</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
21	Silvia Neamtu, Mircea Bogdan, Nicoleta Tosa, Ioan Turcu	<i>The Fluorescence Quenching Mechanism Related to HSA-Anti-Inflammatory Drug Interaction</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
22	Daniel Marconi, Alia Colnita and Ioan Turcu	<i>The Effect of Substrate Temperature on Structural and Morphological Properties of Au/Si(111) Thin Films</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
23	Diana Savu, Mihaela Temelie, Cristina Dragomir, Lorand Savu, Nicoleta Moiso	<i>PINK1 is required for bleomycin induced bystander effects</i>	41st Annual Meeting of the European Radiation Research Society, September 14-19, 2014, Rhodes, Greece	2014
24	Ion Grosu	<i>Macrocycles, polymères poreux et supramolécules formées par auto assemblage avec des applications potentielles dans la Chimie Médicinale</i>	Colloque Franco-Roumain de Chimie Médicinale, 30-31 octobre 2014, Iasi, Romania	2014
25	Ion Grosu	<i>Cyclophanes, Cryptands and H-bonding Self-assembled Aggregates: Synthesis, Structure and Molecular Machines</i>	Invited Talk at the Technical University of Braunschweig, 25 June 2014	2014
26	Lidia Pop, Niculina D. Hădăde, Ion Grosu	<i>Design, synthèse et propriétés supramoléculaires de nouveaux ligands à symétrie tétraédriques décorés avec des nucléobases ou terpyridines,</i>	8-eme Colloque Franco – Roumain de Chimie Appliquée, 15-18 sept 2014, Montpellier, France	2014
27	Istvan Kocsis, Niculina D. Hădăde, Ion Grosu	Nouveaux Cryptands et Macrocycles obtenus par Synthèse Adaptative	8-eme Colloque Franco – Roumain de Chimie Appliquée, 15-18 sept 2014, Montpellier, France	2014

28	Flavia-Adina Martin, Maria Miclaus, Irina Kacso, Xenia Filip, Mihaela Maria Pop	<i>Co-Crystallization: A Method to Improve the Aqueous Solubility of Ketoconazole</i>	3 rd Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2014, June 13 th -15 th , 2014, Brasov, Romania	2014
29	Ioan Turcu	<i>Molecular self-assembling into one-dimensional aggregates</i>	WORKSHOP NANOFLUID IX, 29 september - 2 October 2014, STARÁ LESNÁ, Slovakia	2014
30	Ioan Turcu, Mihaela Mic, Mircea Bogdan	<i>Self-assembly of small molecules into one-dimensional aggregates</i>	TIM14 Physics Conference – Physics without frontiers, 20 th – 22 nd of November, Timișoara, Romania	2014
31	I. Schiopu, A. Asandei, S. Iftemi, L. Mereuta, T. Luchian	Copper determined beta-amyloid peptides misfolding: a single molecule assay	10 th European Biophysics Congress, July 18-22, 2015, Dresden, Germany	2015
32	Alina Asandei, Loredana Mereuta, Tudor Luchian	<i>Single-molecule investigation of peptide conformational changes with a protein nanopore</i>	Gordon Research Conferences frontiers of science, Membrane Protein Folding, 21-26 iunie 2015, Bentley University, Boston	2015
33	Lorant Janosi, Loredana Mereuță, Tudor Luchian, Octav Căldăraru, Mihaela Bacalum, Niculina Hădade, Ion Grosu, Ioan Turcu	<i>Synthesis and investigation of novel small antimicrobial peptides</i>	European Biotechnology Congress 2015, 07–09 May, Bucuresti, Romania	2015
34	Daniel Marconi, Alia Colniță, Maria Miclăuș, Ioan Turcu	<i>Fabrication of interdigitated electrodes by molecular beam epitaxy technique for molecular detection</i>	10 th European Biophysics Congress, July 18-22, 2015, Dresden, Germany	2015
35	Lorant Janosi, Ioan Turcu	<i>Interaction mechanisms of short ARG-TRP-HIS based antimicrobial peptides with membrane models</i>	10 th European Biophysics Congress, July 18-22, 2015, Dresden, Germany	2015
36	A Colniță, D.Marconi, Diana Bogdan, Silvia Neamțu, Flavia Martin, Ioan Turcu	<i>Fabrication of interdigitated electrodes for molecular sensing applications</i>	10 th International Conference Processes in Isotopes and Molecules, 23-25 Sept 2015, Cluj-Napoca, Romania	2015
37	Daniel Marconi, Alia Colniță, Radu Tiberiu Brătfălean, Ioan Turcu	<i>Fabrication of nanostructured silicon films for biosensing applications</i>	10 th International Conference Processes in Isotopes and Molecules, 23-25 Sept 2015, Cluj-Napoca, Romania	2015

38	Radu Tiberiu Brătfălean, Daniel Marconi, Alia Colniță, I. Turcu	<i>Differentiation of Gram-positive bacteria using vibrational spectroscopies and Principal Component Analysis</i>	10th International Conference Processes in Isotopes and Molecules, 23-25 Sept 2015, Cluj-Napoca, Romania	2015
39	Lorant Janosi, Ioan Turcu	<i>Mechanisms of Interaction of Short Cationic Antimicrobial Peptides with Lipid Membrane Models</i>	10th International Conference Processes in Isotopes and Molecules, 23-25 Sept 2015, Cluj-Napoca, Romania	2015
40	Attila Bende	<i>The role of different positively and negatively charged ions on the stability of the histone nucleosome core particle</i>	International Conference: Molecular Biology – Current Aspects and Prospects, 6-8 Nov 2015, Cluj-Napoca, Romania	2015
41	Silvia Neamtu, Luiza Buimaga-Iarinca, Mircea Bogdan, Ioan Turcu	<i>Binding of 5-fluorouracil to HSA. NMR, fluorescence spectroscopy and computational analysis</i>	10th European Biophysics Congress, July 18-22, 2015, Dresden, Germany	2015
42	Luiza Buimaga-Iarinca, Cristian Morari, Adrian Calborean, Ioan Turcu	<i>Strong electric field effects on the adsorption mechanism of phosphatidylcholine on Au(111) surfaces</i>	10th European Biophysics Congress, July 18-22, 2015, Dresden, Germany	2015
43	Roxana Cristina Popescu, Diana Savu, Ecaterina Andronescu, Mona Mihăilescu, George Dan Mogoșanu, Laurențiu Mogoanță, Alexandru Mihai Grumezescu	<i>Magnetite- based nanosystems with anti-tumor activity</i>	19th Romanian International Conference on Chemistry and Chemical Engineering - RICCE, 02 - 05 September 2015, Sibiu, Romania	2015
44	Roxana Cristina Popescu, Diana Savu, Ecaterina Andronescu, Laurențiu Mogoanță, George Dan Mogoșanu, Roxana Trușcă, Bogdan Vasile, Monica Simion, Alexandru-Mihai Grumezescu	<i>Magnetite- based nanosystem with applications in cancer therapy</i>	8th International Conference on Advanced Materials – ROCAM, 07 - 10 July 2015, Bucharest, Romania	2015
45	Roxana Cristina Popescu, Valentina Grumezescu, Diana Savu, Ecaterina Andronescu, Florin Iordache, Laurențiu Mogoanță, George Dan Mogoșanu, Roxana Trușcă, Bogdan Vasile, Monica Simion, Alexandru-Mihai Grumezescu	<i>Magnetite- based drug delivery systems</i>	8th International Conference on Advanced Materials – ROCAM, 07 - 10 July 2015, Bucharest, Romania	2015

46	Luiza Buimaga Iarinca, Cristian Morari, Ioan Turcu	<i>Organic molecules – metallic system interaction: A DFT approach</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
47	Alia Colnita, Sorin Daniel Marconi, Nicoleta Elena Dina, Cozar Bogdan, Nicolae Leopold	<i>Fabrication of nanostructured Au films as promising SERS substrates for the detection of pathogenic bacteria</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
48	Flavia Martin, Monica Florescu, Teodora Radu, Rodica Turcu, Claudia Lar, Niculina Hadade, Ion Grosu, Ioan Turcu	<i>Terpyridine-terminated self-assembled monolayers on gold substrate for metal ions sensing</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
49	Silvia Neamtu, Sorin Daniel Marconi, Flavia Martin, Ioan Turcu	<i>Fe ions caption by terpyridine functionalized Au substrate analyzed by impedance spectroscopy</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
50	Irina Schiopu, Sorana Elena Iftemi, Tudor Luchian	<i>Probing The Key Metal Binding Residues In Mutant Amyloid Peptides</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
51	Mihaela Bacalum	<i>Antimicrobial Peptides Show Antitumor Activity Against SH-SY-5Y Human Neuroblastoma Cells</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
52	Bogdan Zorila, Mihalea Bacalum	<i>Study of the Interaction between Antimicrobial Peptides and Model Cell Membranes by Steady State and Time Resolved Fluorescence</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
53	Mihaela Bacalum	<i>Anticancer activity of antimicrobial peptides</i>	International 16th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2016), 07 – 09 July 2016, Constanta, Romania	2016

52	Roxana Cristina Popescu, Ecaterina Andronescu, Alexandru Mihai Grumezescu, Ileana Mihaela Petcu, Iuliana Diana Savu	<i>Low dose radiotherapy improvement using functionalized magnetite nanoparticles</i>	Fourth International Conference on Radiation and Applications in Various Fields of Research (RAD 2016), 23 – 27 May 2016, Nis, Serbia	2016
51	Livia Neagu, Ioan Dorobantu	<i>Kynetic and thermodynamic properties of the system nanoimmunosorbent-analyte (2,4-D) in the presence of enzymatic label used in homogenous ELISA technique for detection of 2,4-D from environmental and alimentary samples</i>	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016), 29 June – 02 July 2016, Brasov, Romania	2016
52	Eugenia Kovacs, Mihaela Georgeta Moiescu, Tudor Savopol, Violeta Calin, Mona Mihailescu, Alexandra Baluta	<i>Holographic Phase Imaging as a tool for characterization of Cells exposed to electric fields</i>	8th International Conference on Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies (ATOM-N), 25 – 28 August 2016, Constanta, Romania	2016
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Director proiect,

Prof. dr. Luchian Tudor

