

**CRITERII MINIMALE PENTRU FUNCȚIILE DE CERCETARE DIN CADRUL
INSTITUTULUI DE CERCETĂRI INTERDESCIPLINARE**

DOMENIUL DE CERCETARE	FUNCȚIA DE CERCETARE	STANDARDE MINIMALE	PUNCTAJE OBȚINUTE
Fizică	CERCETĂTOR ȘTIINȚIFIC III (CS III)	- $I > 1$ - $P > 1$ - $h > 2$, conform Web of Science	- $I = 1.83$ - $P = 3.46$ - $h = 6$

1. Ioana C. Bucataru †; **Isabela S. Dragomir** †; Alina Asandei; Ana-Maria Pantazica; Alina Ghionescu; Norica Branza-Nichita; YoonkyunG Park; Tudor Luchian, *Probing the Hepatitis B Virus E-Antigen with a Nanopore Sensor Based on Collisional Events Analysis*, **BIOSENSORS-BASEL** **2022**, 12(8), 596, (†contribuții egale), DOI: 10.3390/bios12080596, Factor de impact: 5.743, [AIS = 0.876](#)
2. Loredana Mereuta; Alina Asandei; **Isabela S. Dragomir**; Jonggwan Park; Yoonkyung Park; Tudor Luchian, *A Nanopore Sensor for Multiplexed Detection of Short Polynucleotides Based on Length-Variable, Poly-Arginine-Conjugated Peptide Nucleic Acids*, **ANALYTICAL CHEMISTRY** **2022**, 94(24), 8774-8782, DOI: 10.1021/acs.analchem.2c01587, Factor de impact: 8.008, [AIS = 1.297](#)
3. Irina Schiopu, Alina Asandei, Loredana Mereuta, **Isabela S Dragomir**, Ioana C Bucataru, Tudor Luchian, *Single-Molecule Detection and Manipulation with Biological Nanopores*, **STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA** **2021**, 66(3), 161-174, DOI: 10.24193/subbchem.2021.3.09, Factor de impact: 0.558, [AIS = 0.062](#)
4. **Isabela S. Dragomir**†, Alina Asandei†, Irina Schiopu, Ioana C. Bucataru, Loredana Mereuta and Tudor Luchian, *The Nanopore-Tweezing-Based, Targeted Detection of Nucleobases on Short Functionalized Peptide Nucleic Acid Sequences*, **Polymers** **2021**, 13(8), 1210, (†contribuții egale), DOI: 10.3390/polym13081210, Factor de impact: 4.967, [AIS = 0.611](#)
5. 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), 11323, DOI: 10.1038/s41598-020-68258-x, Factor de impact: 4.380, [AIS = 1.285](#)

6. **Isabela S. Dragomir**[†], Ioana C. Bucataru[†], Irina Schiopu, Tudor Luchian, "Unzipping mechanism of free- and polyarginine-conjugated DNA-PNA duplexes, preconfined inside the α -hemolysin nanopore", **Analytical Chemistry** **2020**, 2, 92(11), 7800-7807 ([†]contribuții egale), DOI: 10.1021/acs.analchem.0c00976, Factor de impact: 6.986, AIS = 1.382
7. Alina Asandei, Giovanni Di Muccio, Irina Schiopu, Loredana Mereuta, **Isabela S. Dragomir**, Mauro Chinappi, Tudor Luchian, "Nanopore-Based Protein Sequencing Using Biopores: Current Achievements and Open Challenges", **Small Methods** **2020**, 4(11), 1900595, DOI: 10.1002/smt.201900595, Factor de impact: 14.188, AIS = 3.16
8. Ciobanașu Corina, **Isabela S. Dragomir**, Apetrei Aurelia, "The penetrating properties of the tumor homing peptide LyP-1 in model lipid membrane", **Journal of Peptide Science** **2019**, 25(3), e3145, DOI: 10.1002/psc.3145, Factor de impact: 1.877, AIS = 0.485
9. Alina Asandei[†], **Isabela S. Dragomir**[†], Giovanni Di Muccio, Mauro Chinappi, Yoonkyung Park, Tudor Luchian, "Single-Molecule Dynamics and Discrimination between Hydrophilic and Hydrophobic Amino Acids in Peptides, through Controllable, Stepwise Translocation across Nanopores", **Polymers** **2018**, 10(8), 885, ([†]contribuții egale), DOI: 10.3390/polym10080885, Factor de impact: 3.164, AIS = 0.592

Conform celor enunțate în tabel, menționez că îndeplinesc criteriile minimale pentru funcțiile de cercetare din cadrul Institutului de Cercetări Interdisciplinare - Universitatea "Alexandru Ioan Cuza" din Iași.

Data:
10.05.2023

Semnătura:
Dr. Isabela-Ștefania BUDACĂ-DRAGOMIR

