

Lucrări reprezentative, publicate în calitate de ‘autor principal’:

1. 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*, 2016, 8 (20), pp 13166–13179(**IF=7.145**)
2. 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*, 2015, 7 (30), pp 16706–16714(**IF=7.145**)
3. Jong-kook Lee, **Tudor Luchian**, Yoonkyung Park, Effect of Regular Exercise on Inflammation Induced by Drug-resistant Staphylococcus aureus 3089 in ICR mice, *Scientific Reports (Nature Publishing Group)*, **5**, 16364; DOI: 10.1038/srep16364 (2015) – (highlighted by The New York Times, 2016). (**IF=5.228**)
4. 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; DOI: 10.1038/srep10419 (2015) (**IF=5.228**)
5. Loredana Mereuta, Alina Asandei, Chang Ho Seo, Yoonkyung Park, **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*, 2014, 6 (15), pp 13242–13256(**IF=7.145**)
6. 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 (Nature Publishing Group)*, 2014, Jan 27;4:3885. DOI: 10.1038/srep03885. (**IF=5.228**)
7. **Tudor Luchian**, Loredana Mereuta, Phlorizin- and 6-Ketcholestanol-Mediated Antagonistic Modulation of Alamethicin Activity in Phospholipid Planar Membranes, *Langmuir*, 2006, 22, 8452-8457. (**IF=3.993**)

8. **Tudor Luchian**, Seong Ho Shin, Hagan Bayley, Single-molecule chemistry with spatially separated reactants, *Angewandte Chemie International Edition*, 42, 3766-3771, 2003(**IF=11.709**)
9. **Tudor Luchian**, Seong Ho Shin, Hagan Bayley, Kinetics of a three-step reaction observed at the single-molecule level,*Angewandte Chemie International Edition* 42, 1925-1929, 2003 (*highlighted by Chemical & Engineering News, American Chemical Society, May 5, 2003*). (**IF=11.709**)
10. Seong-Ho Shin, **Tudor Luchian**, Steve Cheley, Orit Braha, Hagan Bayley, Kinetics of a reversible covalent-bond-forming reaction observed at the single-molecule level,*Angewandte Chemie International Edition*, 41 (19): 3707-3709, 2002 (*highlighted by Nature – science update, 7 October 2003*) (**IF=11.709**)