



Lect. univ. dr. Loredana MEREUTA – LISTA LUCRĂRI ȘTIINȚIFICE

Lucrări selectate:

1. Asandei, A., Ciuca, A., Apetrei, A., Schiopu, I., **Mereuta, L.**, Seo, C.H., Park, Y., Luchian, T. *Nanoscale Investigation of Generation 1 PAMAM Dendrimers Interaction with a Protein Nanopore*, **SCIENTIFIC REPORTS (Nature Publishing Group)** Volume: 7 Article Number: 6167 Published: JUL 21 2017
2. Asandei, A., Chinappi, M., Lee, J.-K., Seo, C.H., **Mereuta, L.**, Park, Y., Luchian, T. *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)** Volume: 5 Article
3. **Mereuta, L.**, Roy, M., Asandei, A., Lee, J.K., Park, Y., Andricioaei, I., Luchian, T. *Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation*, **SCIENTIFIC REPORTS (Nature Publishing Group)** Volume: 4 Article Number: 3885 Published: JAN 27 2014
4. **Mereuta, L.**, Asandei, A., Seo, C.H., Park, Y.d, Luchian, T. *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** Volume: 6 Issue: 15 Pages: 13242-13256 Published: AUG 13 2014
5. **Loredana Mereuta**, Irina Schiopu, Alina Asandei, Yoonkyung Park, Kyung-Soo Hahm, and Tudor Luchian *Protein Nanopore-Based, Single-Molecule Exploration of Copper Binding to an Antimicrobial-Derived, Histidine-Containing Chimera Peptide* dx.doi.org/10.1021/la303782d | **Langmuir** 2012, 28, 17079–17091
6. **Loredana Mereuta**, Alina Asandei and 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. doi:10.1371/journal.pone.0025276
7. Aurelia Apetrei, **Loredana Mereuță**, Tudor Luchian *The RH 421 styryl dye induced, pore model-dependent modulation of antimicrobial peptides activity in reconstituted planar membranes*, *Biochimica et Biophysica Acta (BBA) - General Subjects* 1790 (8), 2009, 809-816
8. **Loredana Mereuță**, Tudor Luchian, Yoonkynung Park and Kyung-Soo Hahm, *The role played by lipids unsaturation upon the membrane interaction of the Helicobacter pylori HP(2–20) antimicrobial peptide analogue HPA3*, *Journal of Bioenergetics and Biomembranes* 41, 2009, 79–84
9. **Loredana Mereuță**, Tudor Luchian, Yoonkyung Park and Kyung-Soo Hahm, *Single-molecule investigation of the interactions between reconstituted planar lipid membranes and an analogue of the HP(2–20) antimicrobial peptide*, *Biochemical and Biophysical Research Communications* 373 (4), 2008, 467-472
10. Tudor Luchian, **Loredana Mereuță**, *Phlorizin- and 6-ketocholestanol-mediated antagonistic modulation of alamethicin activity in phospholipid planar membranes*, **Langmuir** 22(20), 2006, 8452-8457

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1. Asandei, A., Ciuca, A., Apetrei, A., Schiopu, I., **Mereuta, L.**, Seo, C.H., Park, Y., Luchian, T, *Nanoscale Investigation of Generation 1 PAMAM Dendrimers Interaction with a Protein Nanopore*, SCIENTIFIC REPORTS Volume: 7 Article Number: 6167 Published: JUL 21 2017
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2. Asandei, A., Chinappi, M., Kang, H.-K., Seo, C.H., **Mereuta, L.**, Park, Y., Luchian, T., *Acidity-Mediated, Electrostatic Tuning of Asymmetrically Charged Peptides Interactions with Protein Nanopores*, ACS APPLIED MATERIALS & INTERFACES Volume: 7 Issue: 30 Pages: 16706-16714 Published: AUG 5 2015
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3. Asandei, A., Chinappi, M., Lee, J.-K., Seo, C.H., **Mereuta, L.**, Park, Y., Luchian, T. *Placement of oppositely charged aminoacids at a polypeptide termini determines the voltage-controlled braking of polymer transport through nanometer-scale pores*, SCIENTIFIC REPORTS Volume: 5 Article Number: 10419 Published: JUN 1 2015
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4. Asandei, A., Iftemi, S., **Mereuta, L.**, Schiopu, I., Luchian, T. *Probing of Various Physiologically Relevant Metals: Amyloid-beta Peptide Interactions with a Lipid Membrane-Immobilized Protein Nanopore*, JOURNAL OF MEMBRANE BIOLOGY Volume: 247 Issue: 6 Pages: 523-530 Published: JUN 2014
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5. **Mereuta, L.**, Roy, M., Asandei, A., Lee, J.K., Park, Y., Andricioaei, I., Luchian, T. *Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation*, SCIENTIFIC REPORTS Volume: 4 Article Number: 3885 Published: JAN 27 2014
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6. **Mereuta, L.**, Asandei, A., Seo, C.H., Park, Y.d, Luchian, T. *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 Volume: 6 Issue: 15 Pages: 13242-13256 Published: AUG 13 2014
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7. Asandei, A., Schiopu, I., Iftemi, S., **Mereuta, L.**, Luchian, T. *Investigation of Cu²⁺ Binding to Human and Rat Amyloid Fragments A beta (1-16) with a Protein Nanopore*, LANGMUIR Volume: 29 Issue: 50 Pages: 15634-15642 Published: DEC 17 2013
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9. Schiopu, I; **Mereuta, L.**; Apetrei, A; Park, Y; Hahm, KS; Luchian, T *The role of tryptophan spatial arrangement for antimicrobial-derived, membrane-active peptides adsorption and activity*, MOLECULAR BIOSYSTEMS Volume: 8 Issue: 11 Pages: 2860-2863 DOI: 10.1039/c2mb25221j Published: 2012
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10. **Loredana Mereuta**, Alina Asandei and 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. doi:10.1371/journal.pone.0025276
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11. Alina Asandei, **Loredana Mereuta** and Tudor Luchian, ‘*The kinetics of ampicillin complexation by α -cyclodextrins. A single molecule approach*’, Journal of Physical Chemistry B *J. Phys. Chem. B*, 2011, 115 (33), pp 10173–10181, DOI: 10.1021/jp204640t
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12. Aurelia Apetrei, **Loredana Mereuță**, Tudor Luchian *The RH 421 styryl dye induced, pore model-dependent modulation of antimicrobial peptides activity în reconstituted planar membranes*, Biochimica et Biophysica Acta (BBA) - General Subjects 1790 (8), 2009, 809-816
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15. Alina Asandei, **Loredana Mereuță**, Tudor Luchian, -‘*Influence of membrane potentials upon reversible protonation of acidic residues from the OmpF eyelet*’, Biophysical Chemistry 135, 2008, 32–40
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16. Tudor Luchian, **Loredana Mereuță**, *Phlorizin- and 6-ketocholestanol-mediated antagonistic modulation of alamethicin activity in phospholipid planar membranes*, Langmuir 22(20), 2006, 8452–8457
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17. **Loredana Mereuță**, Tudor Luchian, *A virtual instrumentation based protocol for the automated implementation of the inner field compensation method*, Central European Journal of Physics 4(3), 2006, 405–416
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18. Tudor Luchian, **Loredana Mereuță**, *Selective transfer of energy through an alamethicin-doped artificial lipid membrane studied at discrete molecular level*, Bioelectrochemistry 69, 2006, 94–98
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19. **Loredana Mereuță**, Tudor Luchian *How could a chirp be more effective than a louder clock – resonant transfer of energy between sub-threshold excitation pulses and excitable tissues*, Journal of Cellular and Molecular Medicine 9(2), 2005, 446–456
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1. Loredana Mereuță, Roxana Chiriac, Tudor Luchian, *Activity modulation of certain ion-pore forming proteins by electric properties of artificial lipid membranes*, Journal of Optoelectronic and Advanced Materials 10 (7), 2008, 1837 – 1842 **FI 0.577**
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1. **Loredana Mereuta**, *Metode Actuale în Biofizica Moleculară* 2017, Editura Universității „Alexandru Ioan Cuza”-Iasi, ISBN 978-606-714-369-0,
2. **Loredana Mereuta**, ‘*Biofizica Sistemelor Senzoriale*’ 2015, Editura Universității „Alexandru Ioan Cuza”- Iasi

**Citări și recenzii ale lucrărilor Științifice /reviste de specialitate din străinătate; FI-factor impact****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 Volume: 7 Issue: 30 Pages: 16706-16714****Published: AUG 5 2015**

1. 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.
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FI 6.319
2. Single-molecule nanopore enzymology
By: Willems, Kherim; Van Meervelt, Veerle; Wloka, Carsten; et al.
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES Volume: 372 Issue: 1726 Article Number: 20160230 Published: AUG 5 2017
FI 5.846
3. Hydrogen Peroxide Sensing Based on Inner Surfaces Modification of Solid-State Nanopore
By: Zhu, Libo; Gu, Dejian; Liu, Quanjun
NANOSCALE RESEARCH LETTERS Volume: 12 Article Number: 422 Published: JUN 20 2017
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4. A Protein Nanopore-Based Approach for Bacteria Sensing
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NANOSCALE RESEARCH LETTERS Volume: 11 Article Number: 501 Published: NOV 15 2016
FI 2.833
5. Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation
By: Asandei, Alina; Schiopu, Irina; Chinappi, Mauro; et al.
ACS APPLIED MATERIALS & INTERFACES Volume: 8 Issue: 20 Pages: 13166-13179 Pub: MAY 25
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6. Detection of a single enzyme molecule based on a solid-state nanopore sensor
By: Tan, ShengWei; Gu, DeJian; Liu, Hang; et al.
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7. Driven diffusion against electrostatic or effective energy barrier across alpha-hemolysin
By: Ansalone, Patrizio; Chinappi, Mauro; Rondoni, Lamberto; et al.
JOURNAL OF CHEMICAL PHYSICS Volume: 143 Issue: 15 Article Number: 154109 OCT 21 2015
FI 2.894
8. Nanopore tweezers: Voltage-controlled trapping and releasing of analytes
By: Chinappi, Mauro; Luchian, Tudor; Cecconi, Fabio
PHYSICAL REVIEW E Volume: 92 Issue: 3 Article Number: 032714 Published: SEP 15 2015
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Placement of oppositely charged aminoacids at a polypeptide termini determines the voltage-controlled braking of polymer transport through nanometer-scale pores**By: Asandei, A., Chinappi, M., Lee, J.-K., Seo, C.H., Mereuta, L., Park, Y., Luchian, T.****SCIENTIFIC REPORTS Volume: 5 Article Number: 10419 Published: JUN 1 2015 (1.863)**

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2. Characterization of DNA duplex unzipping through a sub-2 nm solid-state nanopore



By: Lin, Yao; Shi, Xin; Liu, Shao-Chuang; et al.

CHEMICAL COMMUNICATIONS Volume: 53 Issue: 25 Pages: 3539-3542 Published: MAR 28 2017
FI 6.319/

3. Artificial Cell Membrane Systems for Biosensing Applications

By: Osaki, Toshihisa; Takeuchi, Shoji

ANALYTICAL CHEMISTRY Volume: 89 Issue: 1 Pages: 216-231 Published: JAN 3 2017
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4. 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 Volume: 7 Issue: 25 Pages: 15315-15320 Published: 2017
FI 3.108/

5. Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation

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6. Analytical applications for pore-forming proteins

By: Kasianowicz, John J.; Balijepalli, Arvind K.; Etteedgui, Jessica; et al.

BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES Volume: 1858 Issue: 3 Special Issue: SI
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By: Boukhet, Mordjane; Piguet, Fabien; Ouldali, Hadjer; et al.

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PHYSICAL REVIEW E Volume: 92 Issue: 3 Article Number: 032714 Published: SEP 15 2015
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10. ate optimization of cluster-enhanced nanopore spectrometry

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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;

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1. Electroosmotic flow through an alpha-hemolysin nanopore

By: Bonome, Emma Letizia; Cecconi, Fabio; Chinappi, Mauro

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2. 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 Volume: 126 Pages: 10-17 Published: MAY 2017
FI 8.402/

3. A Protein Nanopore-Based Approach for Bacteria Sensing



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SMALL Volume: 12 Issue: 33 Pages: 4572-4578 Published: SEP 7 2016

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MAY 25 2016

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PHYSICAL REVIEW E Volume: 92 Issue: 3 Article Number: 032714 Published: SEP 15 2015

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7. Enhanced Resolution of Low Molecular Weight Poly(Ethylene Glycol) in Nanopore Analysis

By: Cao, Chan; Ying, Yi-Lun; Gu, Zhen; et al.

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Probing of Various Physiologically Relevant Metals: Amyloid-beta Peptide Interactions with a Lipid Membrane-Immobilized Protein Nanopore

By: Asandei, A., Iftemi, S., Mereuta, L., Schiopu, I., Luchian, T.

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MAY 25 2016

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2. Single molecule study of initial structural features on the amyloidosis process

By: Hu, Yong-Xu; Ying, Yi-Lun; Gu, Zhen; et al.

CHEMICAL COMMUNICATIONS Volume: 52 Issue: 32 Pages: 5542-5545 Published: 2016

FI 6.319/

3. Single glass nanopore-based regenerable sensing platforms with a non-immobilized polyglutamic acid probe for selective detection of cupric ions

By: Chen, Lizhen; He, Haili; Xu, Xiaolong; et al.

ANALYTICA CHIMICA ACTA Volume: 889 Pages: 98-105 Published: AUG 19 2015

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4. The use of nanopore analysis for discovering drugs which bind to alpha-synuclein for treatment of Parkinson's disease

By: Tavassoly, Omid; Kakish, Joe; Nokhrin, Sergiy; et al.

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Slowing down single-molecule trafficking through a protein nanopore reveals intermediates for peptide translocation

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1. Driven translocation of a semi-flexible polymer through a nanopore

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**FI 4.259/**

2. Temperature dependence of the translocation time of polymer through repulsive nanopores

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JOURNAL OF CHEMICAL PHYSICS Volume: 147 Issue: 3 Article Number: 034901 JUL 21 2017

FI 2.965/

3. Nanopore Sensing of Protein Folding

By: Si, Wei; Aksimentiev, Aleksei

ACS NANO Volume: 11 Issue: 7 Pages: 7091-7100 Published: JUL 2017

FI 13.942/

4. Stochastic sensing of Angiotensin II with lysenin channels

By: Shrestha, Nisha; Bryant, Sheenah L.; Thomas, Christopher; et al.

SCIENTIFIC REPORTS Volume: 7 Article Number: 2448 Published: MAY 26 2017

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5. Electroosmotic flow through an alpha-hemolysin nanopore

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RSC ADVANCES Volume: 7 Issue: 25 Pages: 15315-15320 Published: 2017

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8. Super Temporal-Resolved Microscopy (STReM)

By: Wang, Wenxiao; Shen, Hao; Shuang, Bo; et al.

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9. Electroosmotic Trap Against the Electrophoretic Force Near a Protein Nanopore Reveals Peptide Dynamics During Capture and Translocation

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FI 7.504/ 8

10. Driven Translocation of Polynucleotides Through an Aerolysin Nanopore

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FI 6.32/

11. Probing driving forces in aerolysin and alpha-hemolysin biological nanopores: electrophoresis versus electroosmosis

By: Boukhet, Mordjane; Piguet, Fabien; Ouldali, Hadjer; et al.

NANOSCALE Volume: 8 Issue: 43 Pages: 18352-18359 Published: 2016

FI 7.367/

12. Antimicrobial Peptide CMA3 Derived from the CA-MA Hybrid Peptide: Antibacterial and Anti-inflammatory Activities with Low Cytotoxicity and Mechanism of Action in Escherichia coli

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FI 4.302/

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14. Nanopore tweezers: Voltage-controlled trapping and releasing of analytes

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16. All-Atom Molecular Dynamics Simulation of Protein Translocation through an alpha-Hemolysin Nanopore

By: Di Marino, Daniele; Bonome, Emma Letizia; Tramontano, Anna; et al.

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17. Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory

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FI 1.991/

18. Dendrimers in Nanoscale Confinement: The Interplay between Conformational Change and Nanopore Entrance

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FI 13.779/

19. Nanopore Sensing of Botulinum Toxin Type B by Discriminating an Enzymatically Cleaved Peptide from a Synaptic Protein Synaptobrevin 2 Derivative

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20. Nanopore Investigation of the Stereoselective Interactions between Cu²⁺ and D,L-Histidine Amino Acids Engineered into an Amyloidic Fragment Analogue

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21. Voltage and blockade state optimization of cluster-enhanced nanopore spectrometry

By: Chavis, Amy E.; Brady, Kyle T.; Kothalawala, Nuwan; et al.

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22. Electroosmosis through alpha-Hemolysin That Depends on Alkali Cation Type

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23. Enhanced Resolution of Low Molecular Weight Poly(Ethylene Glycol) in Nanopore Analysis

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24. Discrimination among Protein Variants Using an Unfoldase-Coupled Nanopore

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25. DNA sequencing technology based on nanopore sensors by theoretical calculations and simulations

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FI 1.579/

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