| nume | gradul didactic | domeniul | 1. Activitatea didactică și profesională | | | | | | | | | | | 2. Activitatea de cercetare | | 3. Recunoașterea impactului activității | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cărți în edituri internaționale recunoscute Web of Science în calitate de autor | Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI | Cărți în edituri internaționale recunoscute Web of Science în calitate de editor | Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaboărilor mari | Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor | Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI | Brevete de invenție internaționale acordate | Brevete de invenție naționale acordate | Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură naționale acordate | Director/ responsabil pentru proiecte de cercetare câștigate în valoare de V euro prin competiție națională sau internațională | Total criteriu A | Articole științifice originale în extenso ca autor | Articole științifice originale în extenso ca prim autor sau autor corespondent, | Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science | Indicele Hirsch | |
| | | | $A_1 = \sum_i 4 / n_i^{ef}$ | $A_2 = \sum_i 1 / n_i^{ef}$ | $A_3 = \sum_i 0.5 / n_i^{ef}$ | $A_4 = \sum_i 0.5 / n_i^{ef}$ | $A_5 = \sum_i 0.2 / n_i^{ef}$ | $A_6 = \sum_i 0.2 / n_i^{ef}$ | $A_7 = \sum_i 3 / n_i^{ef}$ | $A_8 = \sum_i 0.5 / n_i^{ef}$ | $A_9 = \sum_i 0.5$ | $A_{10} = \sum_i V_i / 100.000$ | $A = \sum_{i=1}^{10} A_i$ | $I = \sum_i AIS_i / n_i^{ef}$ | $P = \sum_i AIS_i$ | $C = \sum_i c_i / n_i^{ef}$ | h | |
| Mereuta Loredana Cristina | Conferentia | FIZICĂ | | | | 1.5 | | | | | | 2.3 | **3.8** | **10** | **17.4** | **99** | **15** | **25.45** |
| | | | | | | | | | | | | | INDEPLINIT | INDEPLINIT | INDEPLINIT | INDEPLINIT | INDEPLINIT | INDEPLINIT |

| Criterii minimale | prof/CS I | conf/CS II |
|---|---|---|
| A | 2 | 1 |
| I | 4 | 2 |
| P | 4 | 2 |
| C | 40 | 20 |
| h | 10 | 5 |
| $T = A + P/2 + I/2 + C/20 + h/5$ | 12 | 5 |

Conf. univ. dr. Loredana Cristina MEREUȚĂ

Fișa de autoevaluare privind standardele minimale pe domenii

## 1. Activitatea didactică şi profesională: A = 3.8

**4. Cărţi, manuale în edituri naţionale ca autor:**

- **Loredana Mereuta***, ‚Metode Actuale în Biofizica Moleculară'* 2017, Editura Universităţii „Alexandru Ioan Cuza"–Iași, ISBN 978-606-714-369-0

**0.5**

- **Loredana Mereuta**, 'Biofizica Sistemelor Senzoriale' 2015, Editura Universităţii „Alexandru Ioan Cuza"- Iași

**0.5**

**Prezentări susţinute pentru aprobarea analizelor de date în cadrul colaborărilor mari:**

- Prezentarea proiectului de cercetare cu titlul ***'Investigarea corelatiilor fizico-chimice existente între structura molecular si potentialul litic al unor peptide antimicrobiene natural si chimice'*** –(Loredana Mereuta) WORKSHOP organizat în cadrul proiectului "Reţea transnaţională de management integrat al cercetării postdoctorale în domeniul Comunicarea Ştiinţei. Construcţie instituţională (şcoala postdoctorală) şi program de burse (CommScie)" – POSDRU/89/1.5/S/63663, http://www.postdoc.commscie.uaic.ro (29 octombrie 2012)

**0.5**

**$A_4$ = 1.5**

**10. Director/responsabil pentru proiecte de cercetare în valoare Vi euro câştigate prin competiţie naţională s**au internaţională

- **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 -UAIC ~**68.000 euro (**curs BNR 2012)**/100.000=0.68**

- **Director proiect** PN-III-P1-1.1-TE-2019-0037, *„Detecţia multiplă şi ultra-senzitivă a fragmentelor scurte de acizi nucleici, utilizând nanoparticule de aur şi nanopori proteici*,, contract de finanțare nr. 18/ 2020**; 431.900 ron ~88600 euro (**curs BNR 2020)**/100.000= 0.88**

- **Co-Director** "*Design and Development of Therapeutic AMPs against Epidemic Superbugs*", contract de finantare nr. 830/21.01.2015 (România-Coreea) **2020-2022; 166.000 $= 148.300 euro** (curs BNR 2022)**/100000 = 1.483/2=0.74**

**$A_{10}$ = 0.68+0.88+0.74=2.3**

## 2. Activitatea de cercetare şi 3. Recunoaşterea impactului activităţii

| | A(Y) | B(Y) | C(X) | D(Y) | E(Y) | F(Y) | G(Y) | H(Y) | I(Y) | J(Y) |
|---|---|---|---|---|---|---|---|---|---|---|
| ame | first auth | | jurnal | AIS | N | N ef | nr. c | C | I | AIS-P |
| Jnits | (* contributed equally) | | | all | | (N+5)/2 | H=15 WebS | c/Nef | AISall/Nef | first*/eq nr |
| ents | | | | | | N>5 | | | | |
| (x)= | | | | | | | | Col(G)/Col(F) | Col(D)/Col(F) | |
| 1 | *Asandei, Mereuta | 2021 | Proteomics | 1.063 | 5 | 5 | 0 | 0 | 0.2126 | 0.5315 |
| 2 | *Luchian, Mereuta, Park | 2021 | Proteomics | 1.063 | 5 | 5 | 0 | 0 | 0.2126 | 0.354 |
| 3 | Dragomir, | 2021 | Polymers, | 0.597 | 6 | 5.5 | 0 | 0 | 0.10855 | -- |
| 4 | Schiopu, I | 2021 | STUDIA UNIV. B-B CHEMIA | 0.051 | 6 | 5.5 | 0 | 0 | 0.00927 | - |
| 5 | *Asandei, A., Mereuta, L | 2020 | ACS App. Mat. and Int. | 1.697 | 7 | 6 | 9 | 1.5 | 0.28283 | 0.8485 |
| 6 | Mereuta, L. | 2020 | Scientific Reports, | 1.285 | 8 | 6.5 | 8 | 1.23077 | 0.19769 | 1.285 |
| 7 | Asandei, A. | 2020 | Small Methods | 3.152 | 7 | 6 | 22 | 3.66667 | 0.52533 | -- |
| 8 | Lee, J.-K | 2019 | Biomaterials Science | 1.003 | 4 | 4 | 4 | 1 | 0.25075 | -- |
| 9 | Kwon, J.Y | 2019 | AMB Express | 0.543 | 6 | 5.5 | 15 | 2.72727 | 0.09873 | -- |
| 10 | Mereuta, L., | 2019 | Analytical Chemistry | 1.411 | 5 | 5 | 9 | 1.8 | 0.2822 | 1.411 |
| 11 | *Asandei, A., Mereuta | 2019 | ACS Sensors | 1.658 | 6 | 5.5 | 4 | 0.72727 | 0.30145 | 0.829 |
| 12 | Luchian, T. | 2019 | Acc. of Chem. Re. | 6.24 | 6 | 5.5 | 18 | 3.27273 | 1.13455 | -- |
| 13 | Ciuca, A | 2018 | Analytical Chemistry | 1.348 | 8 | 6.5 | 8 | 1.23077 | 0.20738 | -- |
| 14 | Asandei, A. | 2017 | Scientific Reports | 1.356 | 8 | 6.5 | 8 | 1.23077 | 0.20862 | -- |
| 15 | Asandei, A | 2015 | ACS App. Mat. and Int. | 1.5 | 7 | 6 | 27 | 4.5 | 0.25 | -- |
| 16 | Asandei, A., | 2015 | Scientific Reports | 1.9 | 7 | 6 | 41 | 6.83333 | 0.31667 | -- |
| 17 | Mereuta, L. | 2014 | ACS App. Mat. and Int. | 1.373 | 5 | 5 | 24 | 4.8 | 0.2746 | 1.373 |
| 18 | Mereuta, L., | 2014 | Scientific Reports, | 2.075 | 7 | 6 | 74 | 12.33333 | 0.34583 | 2.075 |
| 19 | Asandei, A., | 2014 | J. of Membrane Biology, | 0.726 | 5 | 5 | 15 | 3 | 0.1452 | -- |
| 20 | Asandei, A., | 2013 | Langmuir, | 1.111 | 5 | 5 | 26 | 5.2 | 0.2222 | -- |
| 21 | Mereuta, L., | 2012 | Langmuir, | 1.177 | 6 | 5.5 | 23 | 4.18182 | 0.214 | 1.177 |
| 22 | *Schiopu, I., Mereuta, L. | 2012 | Molecular BioSystems, | 1.241 | 6 | 5.5 | 6 | 1.09091 | 0.22564 | 0.6205 |
| 23 | Mereuta, L. | 2011 | PLoS ONE | 1.798 | 3 | 3 | 13 | 4.33333 | 0.59933 | 1.798 |
| 24 | *Asandei, A.,Mereuta, L. | 2011 | J. of Physical Chemistry B | 1.161 | 3 | 3 | 11 | 3.66667 | 0.387 | 0.5805 |
| 25 | Apetrei, A., | 2009 | BBA- General Subjects, | 0.883 | 3 | 3 | 18 | 6 | 0.29433 | -- |
| 26 | Mereuta, L., | 2009 | J. of Bioenerg. and Biomem. | 1.232 | 4 | 4 | 8 | 2 | 0.308 | 1.232 |
| 27 | Mereuta, L., | 2008 | BBI Research Comm. | 0.962 | 4 | 4 | 13 | 3.25 | 0.2405 | 0.962 |
| 28 | *Asandei, A.,Mereuta, L | 2008 | Biophysical Chemistry | 0.765 | 3 | 3 | 13 | 4.33333 | 0.255 | 0.3825 |
| 29 | Mereuta, L., | 2008 | JOAM | 0.11 | 3 | 3 | 1 | 0.33333 | 0.03667 | 0.11 |
| 30 | Luchian, T., | 2006 | Langmuir | 1.329 | 2 | 2 | 26 | 13 | 0.6645 | -- |
| 31 | Mereuta, L. | 2006 | Central European J. of Phys. | 0.215 | 2 | 2 | 1 | 0.5 | 0.1075 | 0.215 |
| 32 | Luchian, T., | 2006 | Bioelectrochemistry | 0.68 | 2 | 2 | 2 | 1 | 0.34 | -- |
| 33 | Mereuta, L. | 2005 | J.of cellular and molec. med. | 1.678 | 2 | 2 | 0 | 0 | 0.839 | 1.678 |
| 34 | | | | | | | | C=99 | I=10.1 | P=17.4 |
| 35 | | | | | | | | | | |

**A = 3.8**
**P = 17.4**
**I = 10**
**C = 99**
**H =15** (WebScience 448 Citations Without self-citations)

T = A + P/2 + I/2 + C/20 + h/5

**T = 3.8 + 17.4/2 + 10/2 + 99/20 + 15/5 = <u>25.45</u>**

*Lista articolelor științifice (în ordinea în care sunt afișate în tabelul de mai sus) și citările corespunzătoare:*

**1. Teaching an old dog new tricks: A lipid membrane-based electric immunosensor for real-time probing of the spike S-1 protein subunit from SARS-CoV-2; By: Asandei, A (Asandei, Alina) Mereuta, L (Mereuta, Loredana) Schiopu, I (Schiopu, Irina) Park, Y (Park, Yoonkyung) Luchian, T (Luchian, Tudor) PROTEOMICS 2021 Article Number e2100047**

**2. Single-molecule, hybridization-based strategies for short nucleic acids detection and recognition with nanopores By: Luchian, T (Luchian, Tudor) Mereuta, L (Mereuta, Loredana) Park, Y (Park, Yoonkyung) Asandei, A (Asandei, Alina) Schiopu, I (Schiopu, Irina) PROTEOMICS 2021 Article Numbere2100046**

**3. The Nanopore-Tweezing-Based, Targeted Detection of Nucleobases on Short Functionalized Peptide Nucleic Acid Sequences By: Dragomir, IS (Dragomir, Isabela S.) Asandei, A (Asandei, Alina) Schiopu, I (Schiopu, Irina) Bucataru, IC (Bucataru, Ioana C.) Mereuta, L (Mereuta, Loredana) Luchian, T (Luchian, Tudor) POLYMERS 2021Volume 13 Issue 8**

**4. SINGLE-MOLECULE DETECTION AND MANIPULATION WITH BIOLOGICAL NANOPORES By: Schiopu, I (Schiopu, Irina)Asandei, A (Asandei, Alina) Mereuta, L (Mereuta, Loredana) Dragomir, I (Dragomir, Isabela) Bucataru, C (Bucataru, Cezara)Luchian, T (Luchian, Tudor) STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA 2021 Volume66 Issue3 Page161-174**

**5. Non-Receptor-Mediated Lipid Membrane Permeabilization by the SARS-CoV-2 Spike Protein S1 Subunit By: Asandei, A (Asandei, Alina) Mereuta, L (Mereuta, Loredana) Schiopu, I (Schiopu, Irina) Park, J (Park, Jonggwan) Seo, CH (Seo, Chang Ho) Park, Y (Park, Yoonkyung) Luchian, T (Luchian, Tudor) ACS APPLIED MATERIALS & INTERFACES 2020 Volume 12 Issue50 Page 55649-55658**

1. The Inhibition of SARS-CoV-2 3CL M-pro by Graphene and Its Derivatives from Molecular Dynamics Simulations/By: Wang, JW (Wang, Jiawen) 1Yu, Y (Yu, Yi) 1Leng, TL (Leng, Tianle) 2Li, YY (Li, Youyong) 1, 3Lee, ST (Lee, Shuit-Tong) /Dec 2021 (Early Access) | ACS APPLIED MATERIALS & INTERFACES
2. Millisecond dynamic of SARS-CoV-2 spike and its interaction with ACE2 receptor and small extracellular vesicles/By: Lim, K (Lim, Keesiang) 1Nishide, G (Nishide, Goro) 2Yoshida, T (Yoshida, Takeshi) 1, 4Watanabe-Nakayama, T (Watanabe-Nakayama, Takahiro) 1Kobayashi, A (Kobayashi, Akiko) 3Hazawa, M (Hazawa, Masaharu) 1, 3Hanayama, R (Hanayama, Rikinari) 1, 4Ando, T (Ando, Toshio) 1Wong, RW (Wong, Richard W.) Dec 2021 | JOURNAL OF EXTRACELLULAR VESICLES 10 (14)
3. SAS: A Platform of Spike Antigenicity for SARS-CoV-2, By: Zhang, L (Zhang, Lu) 1, 2Cao, RF (Cao, Ruifang) 3Mao, TT (Mao, Tiantian) 1, 2Wang, Y (Wang, Yuan) 1, 2Lv, DQ (Lv, Daqing) 3Yang, LF (Yang, Liangfu) 3Tang, YY (Tang, Yuanyuan) 3Zhou, MD (Zhou, Mengdi) 1, 2Ling, YC (Ling, Yunchao) 3Zhang, GQ (Zhang, Guoqing) 3Qiu, TY (Qiu, Tianyi) 4Cao, ZW (Cao, Zhiwei)/Sep 20 2021 | FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY 9
4. The SARS-CoV-2 spike protein subunit S1 induces COVID-19-like acute lung injury in K18-hACE2 transgenic mice and barrier dysfunction in human endothelial cells/By: Biancatelli, RMLC (Biancatelli, Ruben M. L. Colunga) 1Solopov, PA (Solopov, Pavel A.) 1Sharlow, ER (Sharlow, Elizabeth R.) 2Lazo, JS (Lazo, John S.) 2Marik, PE (Marik, Paul E.) 3Catravas, JD (Catravas, John D./Aug 2021 | AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY 321 (2) , pp.L477-L484
5. A Fungal Defensin Targets the SARS-CoV-2 Spike Receptor-Binding Domain/Gao, B and Zhu, SY/Jul 2021 | JOURNAL OF FUNGI 7 (7)

6. Full-Length Computational Model of the SARS-CoV-2 Spike Protein and Its Implications for a Viral Membrane Fusion Mechanism/Nishima, W and Kulik, M/Jun 2021 | VIRUSES-BASEL 13 (6)
7. Year 2020: Science and Engineering Research Continues/Schanze, KS/Apr 7 2021 | ACS APPLIED MATERIALS & INTERFACES 13 (13) , pp.14799-14801
8. Multifunctional angiotensin converting enzyme 2, the SARS-CoV-2 entry receptor, and critical appraisal of its role in acute lung injury/Oz, M and Lorke, DE/Apr 2021 | BIOMEDICINE & PHARMACOTHERAPY 136
9. Why are we vaccinating children against COVID-19?/ By: Kostoff, RN (Kostoff, Ronald N.) Calina, D (Calina, Daniela) 1Kanduc, D (Kanduc, Darja) 2Briggs, MB (Briggs, Michael B.) Vlachoyiannopoulos, P (Vlachoyiannopoulos, Panayiotis) 3Svistunov, AA (Svistunov, Andrey A.) 4Tsatsakis, A (Tsatsakis, Aristidis)/2021 | TOXICOLOGY REPORTS 8 , pp.1665-1684

## 6. Sequence-specific detection of single-stranded DNA with a gold nanoparticle-protein nanopore approach By: Mereuta, L (Mereuta, Loredana) Asandei, A (Asandei, Alina) Dragomir, IS (Dragomir, Isabela S.) Bucataru, IC (Bucataru, Ioana C.) Park, J (Park, Jonggwan) Seo, CH (Seo, Chang Ho) Park, Y (Park, Yoonkyung) Luchian, T (Luchian, Tudor) SCIENTIFIC REPORTS 2020 Volume10Issue1

1. Nanoparticle-assisted detection of nucleic acids in a polymeric nanopore with a large pore size/By: Zhang, YW (Zhang, Youwen) 1Chen, XH (Chen, Xiaohan) 1Wang, CM (Wang, Ceming) 2Chang, HC (Chang, Hsueh-Chia) 2Guan, XY (Guan, Xiyun)/Jan 15 2022 | BIOSENSORS & BIOELECTRONICS 196
2. Colorimetric and label free detection of gelatinase positive bacteria and gelatinase activity based on aggregation and dissolution of gold nanoparticles/By: Mortezaei, M (Mortezaei, Monireh) 1Dadmehr, M (Dadmehr, Mehdi) 1Korouzhdehi, B (Korouzhdehi, Behnaz) 2Hakimi, M (Hakimi, Mohammad) 3Ramshini, H (Ramshini, Hassan) /Dec 2021 | JOURNAL OF MICROBIOLOGICAL METHODS 191
3. Recent advances in ionic current rectification based nanopore sensing: a mini-review/By: Zhang, SJ (Zhang, Shujie) 1Chen, W (Chen, Wei) 1Song, LB (Song, Laibo) 1Wang, XH (Wang, Xiaohong) 1Sun, WL (Sun, Weilun) 1Song, PY (Song, Pengyun) 1Ashraf, G (Ashraf, Ghazala) 1Liu, B (Liu, Bo) 1Zhao, YD (Zhao, Yuan-Di)/Nov 2021 | SENSORS AND ACTUATORS REPORTS 3
4. Sub-10-nm-thick SiN nanopore membranes fabricated using the SiO2 sacrificial layer process/Yanagi, I and Takeda, KI/Oct 8 2021 | NANOTECHNOLOGY 32 (41)
5. Nanomaterial-based biosensors for COVID-19 detection/By: Al-Douri, Y (Al-Douri, Yarub) 1, 2Khan, MM (Mansoob Khan, Mohammad) 3, 4Jennings, JR (Robert Jennings, James) 4, 5Abd El-Rehim, AF (Abd El-Rehim, Alaa F.)/Oct 2021 (Early Access) | CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES
6. Recent advances in biological nanopores for nanopore sequencing, sensing and comparison of functional variations in MspA mutants/By: Bhatti, H (Bhatti, Huma) 1Jawed, R (Jawed, Rohil) 2Ali, I (Ali, Irshad) 1Iqbal, K (Iqbal, Khurshid) 1Han, Y (Han, Yan) 1Lu, ZH (Lu, Zuhong) 1Liu, QJ (Liu, Quanjun) /Sep 8 2021 | RSC ADVANCES 11 (46) , pp.28996-29014
7. Biological nanopores elucidate the differences between isomers of mercaptobenzoic-capped gold clusters/By: Cox, BD (Cox, Bobby D.) 1Martin, CR (Martin, Charles R.) 1Bertino, MF (Bertino, Massimo F.) 1Reiner, JE (Reiner, Joseph E.) /Apr 7 2021 | PHYSICAL CHEMISTRY CHEMICAL PHYSICS 23 (13) , pp.7938-7947
8. A review on the role of emerging revolutionary nanotechnology in forensic investigations/ Tambo, F., Ablateye, D.N.O. 2020 Journal of Applied and Natural Science/ 12(4), pp. 582-591(scopus.com)

## 7. Nanopore-Based Protein Sequencing Using Biopores: Current Achievements and Open Challenges By: Asandei, A (Asandei, Alina) Di Muccio, G (Di Muccio, Giovanni) Schiopu, I (Schiopu, Irina) Mereuta, L (Mereuta, Loredana) Dragomir, IS (Dragomir, Isabela S.) Chinappi, M (Chinappi, Mauro) Luchian, T (Luchian, Tudor) SMALL METHODS 2020 Volume4Issue11

1. Dielectric Manipulation of Polymer Translocation Dynamics in Engineered Membrane Nanopores/Buyukdagli, S/Dec 2021 (Early Access) | LANGMUIR
2. An advanced optical-electrochemical nanopore measurement system for single-molecule analysis/By: Liu, SC (Liu, Shao-Chuang) 1Xie, BK (Xie, Bao-Kang) 1Zhong, CB (Zhong, Cheng-Bing) 1Wang, J (Wang, Jia) 1Ying, YL (Ying, Yi-Lun) 1Long, YT (Long, Yi-Tao) 1/Dec 1 2021 | REVIEW OF SCIENTIFIC INSTRUMENTS 92 (12)
3. Solid-state and polymer nanopores for protein sensing: A review/By: Meyer, N (Meyer, Nathan) 1, 2Abrao-Nemeir, I (Abrao-Nemeir, Imad) 1Janot, JM (Janot, Jean-Marc) 1Torrent, J (Torrent, Joan) 2Lepoitevin, M (Lepoitevin, Mathilde) 3Balme, S (Balme, Sebastien)Dec 2021 | ADVANCES IN COLLOID AND INTERFACE SCIENCE 298

4. Advances in electrochemical detection for probing protein aggregation/Andreescu, S and Vasilescu, A/Dec 2021 | CURRENT OPINION IN ELECTROCHEMISTRY 30
5. Enzyme Hinders HIV-1 Tat Viral Transport and Real-Time Measured with Nanopores/By: Wang, H (Wang, Han) 1, 2, 3Huang, WL (Huang, Wenli) 4Wang, YJ (Wang, Yunjiao) 1, 2Li, W (Li, Wei) 1, 2Liu, QS (Liu, Qianshan) 1, 2Yin, BH (Yin, Bohua) 1Liang, LY (Liang, Liyuan) 1, 2Wang, DQ (Wang, Deqiang) 1, 2Guan, XY (Guan, Xiyun) 4Wang, L (Wang, Liang) 1, 2, 3/Oct 22 2021 | ACS SENSORS 6 (10) , pp.3781-3788
6. Exponential Increase in an Ionic Signal: A Dominant Role of the Space Charge Effect on the Outer Surface of Nanochannels/By: Wu, XQ (Wu, Xiaoqing) 1Li, Y (Li, Yu) 1Xu, HQ (Xu, Hongquan) 1Chen, YJ (Chen, Yajie) 1Mao, HW (Mao, Haowei) 1Ma, Q (Ma, Qun) 1Du, QJ (Du, Qiujiao) 2Gao, PC (Gao, Pengcheng) 1Xia, F (Xia, Fan) /Oct 12 2021 | ANALYTICAL CHEMISTRY 93 (40) , pp.13711-13718
7. Herding cats: Label-based approaches in protein translocation through nanopore sensors for single-molecule protein sequence analysis/Motone, K; Cardozo, N and Nivala, J/Sep 24 2021 | ISCIENCE 24 (9)
8. Unveiling the Microscopic Mechanism of Current Variation in the Sensing Region of the MspA Nanopore for DNA Sequencing/By: Yu, M (Yu, Meng) 1Si, W (Si, Wei) 1Zeng, T (Zeng, Tao) 2Chen, C (Chen, Chang) 1Lin, XJ (Lin, Xiaojing) 1Ji, ZX (Ji, Zhouxiang) 2Guo, F (Guo, Fei) 2Li, YX (Li, Yuxiang) 2Sha, JJ (Sha, Jingjie) 1Dong, YL (Dong, Yuliang)/ Sep 23 2021 | JOURNAL OF PHYSICAL CHEMISTRY LETTERS 12 (37) , pp.9132-9141
9. Velocity control of protein translocation through a nanopore by tuning the fraction of benzenoid residues/By: Si, W (Si, Wei) 1Yang, HJ (Yang, Haojie) 1Wu, GS (Wu, Gensheng) 2Zhang, Y (Zhang, Yin) 1Sha, JJ (Sha, Jingjie) 1/Sep 28 2021 | Aug 2021 (Early Access) | NANOSCALE 13 (36) , pp.15352-15361
10. Towards population-scale long-read sequencing/De Coster, W; Weissensteiner, MH and Sedlazeck, FJ/Sep 2021 | May 2021 (Early Access) | NATURE REVIEWS GENETICS 22 (9) , pp.572-587
11. Recent advances in top-down proteome sample processing ahead of MS analysis/By: Nickerson, JL (Nickerson, Jessica L.) 1Baghalabadi, V (Baghalabadi, Venus) 1Rajendran, SRCK (Rajendran, Subin R. C. K.) 1, 2Jakubec, PJ (Jakubec, Philip J.) 1Said, H (Said, Hammam) 1McMillen, TS (McMillen, Teresa S.) 1Dang, ZH (Dang, Ziheng) 1Doucette, AA (Doucette, Alan A.) /May 2021 (Early Access) | MASS SPECTROMETRY REVIEWS
12. Regulating the Translocation of DNA through Poly(N-isopropylacrylamide)-Decorated Switchable Nanopores by Cononsolvency Effect/By: Yong, HS (Yong, Huaisong) 3, 4Molcrette, B (Molcrette, Bastien) 1Sperling, M (Sperling, Marcel) 2Montel, F (Montel, Fabien) 1Sommer, JU (Sommer, Jens-Uwe)/May 11 2021 | Apr 2021 (Early Access) | MACROMOLECULES 54 (9) , pp.4432-4442
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