

Cristina Potrich

List of Publications by Year in descending order

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56
papers

1,805
citations

304743

22
h-index

276875

41
g-index

57
all docs

57
docs citations

57
times ranked

2418
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying the Minimal Copper- and Zinc-binding Site Sequence in Amyloid- β Peptides. <i>Journal of Biological Chemistry</i> , 2008, 283, 10784-10792.	3.4	184
2	Effects of Lipid Composition on Membrane Permeabilization by Sticholysin I and II, Two Cytolysins of the Sea Anemone <i>Stichodactyla helianthus</i> . <i>Biophysical Journal</i> , 2001, 80, 2761-2774.	0.5	176
3	The effect of post-sintering treatments on the fatigue and biological behavior of Ti-6Al-4V ELI parts made by selective laser melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 295-306.	3.1	165
4	Fatigue and biological properties of Ti-6Al-4V ELI cellular structures with variously arranged cubic cells made by selective laser melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 381-394.	3.1	128
5	Sizing the Radius of the Pore Formed in Erythrocytes and Lipid Vesicles by the Toxin Sticholysin I from the Sea Anemone <i>Stichodactyla helianthus</i> . <i>Journal of Membrane Biology</i> , 2001, 183, 125-135.	2.1	108
6	Metal binding in amyloid β -peptides shows intra- and inter-peptide coordination modes. <i>European Biophysics Journal</i> , 2006, 35, 340-351.	2.2	104
7	Inter- and Intra-octarepeat Cu(II) Site Geometries in the Prion Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 11753-11759.	3.4	81
8	Interaction of ostreolysin, a cytolytic protein from the edible mushroom <i>Pleurotus ostreatus</i> , with lipid membranes and modulation by lysophospholipids. <i>FEBS Journal</i> , 2003, 270, 1199-1210.	0.2	63
9	Structure and Activity of the N-Terminal Region of the Eukaryotic Cytolysin Equinatoxin II. <i>Biochemistry</i> , 2006, 45, 1818-1828.	2.5	53
10	Lysine 77 is a Key Residue in Aggregation of Equinatoxin II, a Pore-forming Toxin from Sea Anemone <i>Actinia equina</i> . <i>Journal of Membrane Biology</i> , 2000, 173, 47-55.	2.1	43
11	Ultrasensitive detection of cancer biomarkers by nickel-based isolation of polydisperse extracellular vesicles from blood. <i>EBioMedicine</i> , 2019, 43, 114-126.	6.1	40
12	The Influence of Membrane Lipids in <i>Staphylococcus aureus</i> Gamma-Hemolysins Pore Formation. <i>Journal of Membrane Biology</i> , 2009, 227, 13-24.	2.1	37
13	Solid phase DNA extraction on PDMS and direct amplification. <i>Lab on A Chip</i> , 2011, 11, 4029.	6.0	37
14	Cytotoxic Activity of a Tumor Protease-Activated Pore-Forming Toxin. <i>Bioconjugate Chemistry</i> , 2005, 16, 369-376.	3.6	36
15	Enhanced fluorescence detection of miRNA-16 on a photonic crystal. <i>Analyst</i> , 2015, 140, 5459-5463.	3.5	31
16	XPS analysis of genomic DNA adsorbed on PEI-modified surfaces. <i>Surface and Interface Analysis</i> , 2016, 48, 611-615.	1.8	31
17	Structural Features of Distictin Affecting Peptide Biological and Biochemical Properties. <i>Biochemistry</i> , 2008, 47, 7888-7899.	2.5	29
18	Simple PDMS microdevice for biomedical applications. <i>Talanta</i> , 2019, 193, 44-50.	5.5	29

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19	Staphylococcus aureus Bicomponent \hat{I}^3 -Hemolysins, HlgA, HlgB, and HlgC, Can Form Mixed Pores Containing All Components. <i>Journal of Chemical Information and Modeling</i> , 2005, 45, 1539-1545.	5.4	25
20	<i>p</i> -Sulfonato-calix[<i>n</i>]arenes inhibit staphylococcal bicomponent leukotoxins by supramolecular interactions. <i>Biochemical Journal</i> , 2013, 450, 559-571.	3.7	24
21	OncomiR detection in circulating body fluids: a PDMS microdevice perspective. <i>Lab on A Chip</i> , 2014, 14, 4067-4075.	6.0	24
22	SPAD aptasensor for the detection of circulating protein biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 68, 500-507.	10.1	24
23	Deoxycholate as an efficient coating agent for hydrophilic silicon nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 86-92.	9.4	21
24	Innovative Silicon Microgrippers for Biomedical Applications: Design, Mechanical Simulation and Evaluation of Protein Fouling. <i>Actuators</i> , 2018, 7, 12.	2.3	21
25	AFM1 Detection in Milk by Fab [™] Functionalized Si ₃ N ₄ Asymmetric Mach [€] Zehnder Interferometric Biosensors. <i>Toxins</i> , 2019, 11, 409.	3.4	21
26	Decoding distinctive features of plasma extracellular vesicles in amyotrophic lateral sclerosis. <i>Molecular Neurodegeneration</i> , 2021, 16, 52.	10.8	19
27	3D-printed microfluidics on thin poly(methyl methacrylate) substrates for genetic applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	1.2	18
28	Genetic grafting of membrane-acting peptides to the cytotoxin dianthin augments its ability to de-stabilize lipid bilayers and enhances its cytotoxic potential as the component of transferrin-toxin conjugates. , 2000, 86, 582-589.		16
29	Organo-silane coated substrates for DNA purification. <i>Applied Surface Science</i> , 2011, 257, 10821-10827.	6.1	16
30	miRNA purification with an optimized PDMS microdevice: Toward the direct purification of low abundant circulating biomarkers. <i>Biophysical Chemistry</i> , 2017, 229, 142-150.	2.8	16
31	Effect of materials for micro-electro-mechanical systems on PCR yield. <i>European Biophysics Journal</i> , 2010, 39, 979-986.	2.2	15
32	Hemocompatibility of pyrolytic carbon in comparison with other biomaterials. <i>Diamond and Related Materials</i> , 2011, 20, 762-769.	3.9	14
33	Innovative microRNA purification based on surface properties modulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 160-168.	5.0	14
34	Internalization of staphylococcal leukotoxins that bind and divert the C5a receptor is required for intracellular Ca ²⁺ mobilization by human neutrophils. <i>Cellular Microbiology</i> , 2015, 17, 1241-1257.	2.1	14
35	Smart detection of microRNAs through fluorescence enhancement on a photonic crystal. <i>Talanta</i> , 2016, 150, 699-704.	5.5	13
36	On-chip purification and detection of hepatitis C virus RNA from human plasma. <i>Biophysical Chemistry</i> , 2016, 208, 54-61.	2.8	12

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37	Exploring a new approach for regenerative medicine: Ti-doped polycrystalline diamond layers as bioactive platforms for osteoblast-like cells growth. <i>Applied Surface Science</i> , 2021, 540, 148334.	6.1	11
38	Fabrication of a MEMS-based separation module for liquid chromatography. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 181-186.	7.8	10
39	EPR and FTIR studies reveal the importance of highly ordered sterol-enriched membrane domains for osteolysin activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 891-902.	2.6	10
40	A new silanizing agent tailored to surface bio-functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 166-173.	5.0	10
41	Primary cortical neurons on PMCS TiO ₂ films towards bio-hybrid memristive device: A morpho-functional study. <i>Biophysical Chemistry</i> , 2017, 229, 115-122.	2.8	9
42	Prototyping a memristive-based device to analyze neuronal excitability. <i>Biophysical Chemistry</i> , 2019, 253, 106212.	2.8	8
43	A Micro Polymerase Chain Reaction Module for Integrated and Portable DNA Analysis Systems. <i>Journal of Sensors</i> , 2011, 2011, 1-7.	1.1	7
44	Rapid Nickel-based Isolation of Extracellular Vesicles from Different Biological Fluids. <i>Bio-protocol</i> , 2020, 10, e3512.	0.4	7
45	One-shot genetic analysis in monolithic Silicon/Pyrex microdevices. <i>Biomedical Microdevices</i> , 2012, 14, 1103-1113.	2.8	6
46	Bio-functional surfaces for the immunocapture of AGO2-bound microRNAs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 746-753.	5.0	6
47	Photofabrication of polymeric biomicrofluidics: New insights into material selection. <i>Materials Science and Engineering C</i> , 2020, 106, 110166.	7.3	5
48	Cell transfer of information via miR-loaded exosomes: a biophysical approach. <i>European Biophysics Journal</i> , 2017, 46, 803-811.	2.2	4
49	PDMS-Based Microdevices for the Capture of MicroRNA Biomarkers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3867.	2.5	4
50	Functionalization of TiO ₂ sol-gel derived films for cell confinement. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111787.	5.0	2
51	On-Chip Purification of Tetracyclines Based on Copper Ions Interaction. <i>Sensors</i> , 2021, 21, 7236.	3.8	2
52	Enhancing miRNAs Capture on Polydimethylsiloxane Surface with Nanostructuring. <i>Journal of Nanomedicine & Nanotechnology</i> , 2017, 08, .	1.1	1
53	Human Blood Platelets Adsorption on Polymeric Materials for Liquid Biopsy. <i>Sensors</i> , 2022, 22, 4788.	3.8	1
54	The Making of a µon-Chip PCR in Real-Time for Food Quality Control. <i>BioNanoScience</i> , 2013, 3, 123-131.	3.5	0

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55	Biofunctional Surfaces for Smart Entrapment of Polysomes. Applied Sciences (Switzerland), 2021, 11, 776.	2.5	0
56	Tuning Surface Properties via Plasma Treatments for the Improved Capture of MicroRNA Biomarkers. Materials, 2022, 15, 2641.	2.9	0