

Elena Angeli

List of Publications by Year in descending order

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32
papers

578
citations

759233

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h-index

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24
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32
all docs

32
docs citations

32
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	Permeability thickness dependence of polydimethylsiloxane (PDMS) membranes. <i>Journal of Membrane Science</i> , 2015, 481, 1-8.	8.2	175
2	DNA detection with a polymeric nanochannel device. <i>Lab on A Chip</i> , 2011, 11, 2961.	6.0	48
3	Modulating DNA Translocation by a Controlled Deformation of a PDMS Nanochannel Device. <i>Scientific Reports</i> , 2012, 2, 791.	3.3	38
4	Electrical characterization and Auger depth profiling of nanogap electrodes fabricated by I2-assisted focused ion beam. <i>Applied Physics Letters</i> , 2006, 89, 173112.	3.3	36
5	DNA manipulation with elastomeric nanostructures fabricated by soft-moulding of a FIB-patterned stamp. <i>Lab on A Chip</i> , 2011, 11, 2625.	6.0	33
6	Simultaneous Electro-Optical Tracking for Nanoparticle Recognition and Counting. <i>Nano Letters</i> , 2015, 15, 5696-5701.	9.1	28
7	Nanotechnology Applications in Medicine. <i>Tumori</i> , 2008, 94, 206-215.	1.1	27
8	Engineered Kidney Tubules for Modeling Patient-Specific Diseases and Drug Discovery. <i>EBioMedicine</i> , 2018, 33, 253-268.	6.1	27
9	Conformations of DNA in Triangular Nanochannels. <i>Macromolecules</i> , 2013, 46, 4198-4206.	4.8	24
10	Stretching of DNA confined in nanochannels with charged walls. <i>Biomicrofluidics</i> , 2014, 8, 064121.	2.4	21
11	Gas permeation through rubbery polymer nano-corrugated membranes. <i>Scientific Reports</i> , 2018, 8, 6345.	3.3	19
12	Selective protein detection with a dsLNA-functionalized nanopore. <i>Biosensors and Bioelectronics</i> , 2015, 64, 219-226.	10.1	14
13	A liquid-like model for the morphology evolution of ion bombarded thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 354, 28-33.	1.4	12
14	Mechanical squeezing of an elastomeric nanochannel device: numerical simulations and ionic current characterization. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 21-30.	2.2	11
15	High-vacuum setup for permeability and diffusivity measurements by membrane techniques. <i>Vacuum</i> , 2021, 191, 110368.	3.5	9
16	Integrating Microstructured Electrospun Scaffolds in an Open Microfluidic System for in Vitro Studies of Human Patient-Derived Primary Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3649-3663.	5.2	8
17	Control of the micrometric scale morphology of silicon nanowires through ion irradiation-induced metal dewetting. <i>Solid State Communications</i> , 2016, 240, 41-45.	1.9	7
18	The Role of Surfaces in Gas Transport Through Polymer Membranes. <i>Polymers</i> , 2019, 11, 910.	4.5	7

#	ARTICLE	IF	CITATIONS
19	Increased Flexibility in Lab-on-Chip Design with a Polymer Patchwork Approach. <i>Nanomaterials</i> , 2019, 9, 1678.	4.1	7
20	Nanofluidic-Based Accumulation of Antigens for Miniaturized Immunoassay. <i>Sensors</i> , 2020, 20, 1615.	3.8	7
21	Precise 3D modulation of electro-optical parameters during neurotransmitter uncaging experiments with neurons in vitro. <i>Scientific Reports</i> , 2020, 10, 13380.	3.3	5
22	Electrical biosensing with synthetic nanopores and nanochannels. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100754.	4.8	4
23	Junction gap breakdown-based fabrication of polydimethylsiloxane ionic rectifiers. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 025004.	2.6	3
24	Low-frequency noise behavior in GaN HEMTs on silicon substrate. , 2004, , .		2
25	Ion Current Rectification in Extra-Long Nanofunnels. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3749.	2.5	2
26	Fabrication of Elastomeric Nanofluidic Devices for Manipulation of Long DNA Molecules. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009, , 134-140.	0.3	1
27	Nanofluidic Sensor for Antigen-Antibody Binding Detection. <i>Biophysical Journal</i> , 2018, 114, 19a-20a.	0.5	1
28	Nanofluidic Chips for DNA and Nanoparticles Detection and Manipulation. <i>Biophysical Journal</i> , 2019, 116, 293a.	0.5	1
29	Involvement of GABA _A receptors containing $\hat{\iota}_{\pm 6}$ subtypes in antisecretory factor activity on rat cerebellar granule cells studied by two-photon uncaging. <i>European Journal of Neuroscience</i> , 2022, 56, 4505-4513.	2.6	1
30	Two-Photon Photoactivation of Rubi-Gaba for Studying the Role of the Antisecretory Factor in the Modulation of the GABA _A Receptor in Rat Cerebellar Granule Cells In Vitro. <i>Biophysical Journal</i> , 2021, 120, 55a.	0.5	0
31	Nanotechnology for Life Sciences. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 1132-1140.	0.4	0
32	Electrophysiological study of the effects of side products of RuBi-GABA uncaging on GABA _A receptors in cerebellar granule cells. <i>Biomolecular Concepts</i> , 2022, 13, 289-297.	2.2	0