

JÃ©rÃ©me Charmet

List of Publications by Year in descending order

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43
papers

1,056
citations

516710

16
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414414

32
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all docs

43
docs citations

43
times ranked

1974
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene FET Sensors for Alzheimerâ€™s Disease Protein Biomarker Clusterin Detection. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 651232.	3.5	20
2	Molecular Physical Layer for 6G in Wave-Denied Environments. <i>IEEE Communications Magazine</i> , 2021, 59, 33-39.	6.1	12
3	Label-Free Protein Analysis Using Liquid Chromatography with Gravimetric Detection. <i>Analytical Chemistry</i> , 2021, 93, 2848-2853.	6.5	10
4	High-Dimensional Metric Combining for Non-Coherent Molecular Signal Detection. <i>IEEE Transactions on Communications</i> , 2020, 68, 1479-1493.	7.8	19
5	Graphene FET Sensors for Alzheimerâ€™s Disease Protein Biomarker Clusterin Detection. , 2020, , .		2
6	Characterization of homemade UV-LED photolithography to realize high aspect ratio channels. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	5
7	Mechanism of droplet-formation in a supersonic microfluidic spray device. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	14
8	Low-Cost Microfabrication Tool Box. <i>Micromachines</i> , 2020, 11, 135.	2.9	12
9	Resolving protein mixtures using microfluidic diffusional sizing combined with synchrotron radiation circular dichroism. <i>Lab on A Chip</i> , 2019, 19, 50-58.	6.0	8
10	Design and evaluation of pneumatic micropump module for a portable polymerase chain reaction kit. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
11	3D microfluidics spray nozzle for sample processing and materials deposition. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
12	The design and impact of in-situ and operando thermal sensing for smart energy storage. <i>Journal of Energy Storage</i> , 2019, 22, 36-43.	8.1	60
13	Design and Development of a Disposable Lab-on-a-Chip for Prostate Cancer Detection. , 2019, 2019, 1579-1583.		4
14	Biophotonics of Native Silk Fibrils. <i>Macromolecular Bioscience</i> , 2018, 18, e1700295.	4.1	31
15	Microfluidics for Protein Biophysics. <i>Journal of Molecular Biology</i> , 2018, 430, 565-580.	4.2	49
16	Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. <i>Nature Communications</i> , 2018, 9, 3890.	12.8	40
17	2-Photon Lithography for Nanofluidic Lab-on-Chip Devices. <i>Biophysical Journal</i> , 2018, 114, 689a.	0.5	0
18	Enhancing the Resolution of Micro Free Flow Electrophoresis through Spatially Controlled Sample Injection. <i>Analytical Chemistry</i> , 2018, 90, 8998-9005.	6.5	29

#	ARTICLE	IF	CITATIONS
19	Combining Affinity Selection and Specific Ion Mobility for Microchip Protein Sensing. <i>Analytical Chemistry</i> , 2018, 90, 10302-10310.	6.5	16
20	Microfluidic devices fabricated using fast wafer-scale LED-lithography patterning. <i>Biomicrofluidics</i> , 2017, 11, 014113.	2.4	42
21	High operational and environmental stability of high-mobility conjugated polymer field-effect transistors through the use of molecular additives. <i>Nature Materials</i> , 2017, 16, 356-362.	27.5	345
22	Enhanced Quality Factor Label-free Biosensing with Micro-Cantilevers Integrated into Microfluidic Systems. <i>Analytical Chemistry</i> , 2017, 89, 11929-11936.	6.5	20
23	Quantifying Measurement Fluctuations from Stochastic Surface Processes on Sensors with Heterogeneous Sensitivity. <i>Physical Review Applied</i> , 2016, 5, .	3.8	4
24	Simultaneous interrogation of high-Q modes in a piezoelectric-on-silicon micromechanical resonator. <i>Sensors and Actuators A: Physical</i> , 2016, 238, 207-214.	4.1	18
25	Micromechanical piezoelectric-on-silicon BAW resonators for sensing in liquid environments. , 2015, , .		3
26	The effect of mass loading on spurious modes in micro-resonators. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	2
27	Solid on liquid deposition, a review of technological solutions. <i>Microelectronic Engineering</i> , 2015, 141, 267-279.	2.4	20
28	Tuneable bioinspired lens. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 046004.	2.9	4
29	Development of Flexible Micro-Thermo-electrochemical Generators Based on Ionic Liquids. <i>Journal of Electronic Materials</i> , 2014, 43, 3758-3764.	2.2	44
30	Observations of modal interaction in lateral bulk acoustic resonators. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	9
31	Optimizing Parylene C Adhesion for MEMS Processes: Potassium Hydroxide Wet Etching. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 855-864.	2.5	26
32	Forming nanoparticles of water-soluble ionic molecules and embedding them into polymer and glass substrates. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 267-276.	2.8	41
33	Nanoscale structure and morphology of thin films of poly(2-chloroxylylene) synthesized by the CVD method on different liquids. <i>European Polymer Journal</i> , 2011, 47, 1725-1735.	5.4	3
34	Modification of Parylene film-coated glass with TiO ₂ nanoparticles and its photocatalytic properties. <i>Surface and Coatings Technology</i> , 2011, 205, 3190-3197.	4.8	13
35	Functionalization of parylene during its chemical vapor deposition. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2952-2958.	2.3	11
36	New approach to chemical functionalization of poly(2-€chloroxylylene) thin films. <i>Journal of Applied Polymer Science</i> , 2011, 119, 1528-1531.	2.6	1

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37	Parylene nanocomposites using modified magnetic nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 124, 780-784.	4.0	10
38	Solid on liquid deposition. <i>Thin Solid Films</i> , 2010, 518, 5061-5065.	1.8	29
39	Decorating Parylene-Coated Glass with ZnO Nanoparticles for Antibacterial Applications: A Comparative Study of Sonochemical, Microwave, and Microwave-Plasma Coating Routes. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1052-1059.	8.0	59
40	Chemical Binding of Unsaturated Fluorenes to Poly(2-chloroxylylene) Thin Films. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 2052-2057.	2.2	13
41	Liquid as template for next generation micro devices. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012021.	0.4	1
42	General aspects of solid on liquid growth mechanisms. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012029.	0.4	4
43	Planar optical integrated circuits based on UV-patternable sol-gel technology. , 2003, 4876, 295.		1