

JÃ©rÃ©me Charmet

List of Publications by Year in descending order

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43
papers

1,056
citations

516710

16
h-index

414414

32
g-index

43
all docs

43
docs citations

43
times ranked

1974
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Microfluidics for Protein Biophysics. <i>Journal of Molecular Biology</i> , 2018, 430, 565-580.	4.2	49
5	Development of Flexible Micro-Thermo-electrochemical Generators Based on Ionic Liquids. <i>Journal of Electronic Materials</i> , 2014, 43, 3758-3764.	2.2	44
6	Microfluidic devices fabricated using fast wafer-scale LED-lithography patterning. <i>Biomicrofluidics</i> , 2017, 11, 014113.	2.4	42
7	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
8	Microfluidic deposition for resolving single-molecule protein architecture and heterogeneity. <i>Nature Communications</i> , 2018, 9, 3890.	12.8	40
9	Biophotonics of Native Silk Fibrils. <i>Macromolecular Bioscience</i> , 2018, 18, e1700295.	4.1	31
10	Solid on liquid deposition. <i>Thin Solid Films</i> , 2010, 518, 5061-5065.	1.8	29
11	Enhancing the Resolution of Micro Free Flow Electrophoresis through Spatially Controlled Sample Injection. <i>Analytical Chemistry</i> , 2018, 90, 8998-9005.	6.5	29
12	Optimizing Parylene C Adhesion for MEMS Processes: Potassium Hydroxide Wet Etching. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 855-864.	2.5	26
13	Solid on liquid deposition, a review of technological solutions. <i>Microelectronic Engineering</i> , 2015, 141, 267-279.	2.4	20
14	Graphene FET Sensors for Alzheimer's Disease Protein Biomarker Clusterin Detection. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 651232.	3.5	20
15	Enhanced Quality Factor Label-free Biosensing with Micro-Cantilevers Integrated into Microfluidic Systems. <i>Analytical Chemistry</i> , 2017, 89, 11929-11936.	6.5	20
16	High-Dimensional Metric Combining for Non-Coherent Molecular Signal Detection. <i>IEEE Transactions on Communications</i> , 2020, 68, 1479-1493.	7.8	19
17	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
18	Combining Affinity Selection and Specific Ion Mobility for Microchip Protein Sensing. <i>Analytical Chemistry</i> , 2018, 90, 10302-10310.	6.5	16

#	ARTICLE	IF	CITATIONS
19	Mechanism of droplet-formation in a supersonic microfluidic spray device. Applied Physics Letters, 2020, 116, .	3.3	14
20	Chemical Binding of Unsaturated Fluorenes to Poly(2-chloroxylylene) Thin Films. Macromolecular Chemistry and Physics, 2009, 210, 2052-2057.	2.2	13
21	Modification of Parylene film-coated glass with TiO2 nanoparticles and its photocatalytic properties. Surface and Coatings Technology, 2011, 205, 3190-3197.	4.8	13
22	Molecular Physical Layer for 6G in Wave-Denied Environments. IEEE Communications Magazine, 2021, 59, 33-39.	6.1	12
23	Low-Cost Microfabrication Tool Box. Micromachines, 2020, 11, 135.	2.9	12
24	Functionalization of parylene during its chemical vapor deposition. Journal of Polymer Science Part A, 2011, 49, 2952-2958.	2.3	11
25	Parylene nanocomposites using modified magnetic nanoparticles. Materials Chemistry and Physics, 2010, 124, 780-784.	4.0	10
26	Label-Free Protein Analysis Using Liquid Chromatography with Gravimetric Detection. Analytical Chemistry, 2021, 93, 2848-2853.	6.5	10
27	Observations of modal interaction in lateral bulk acoustic resonators. Applied Physics Letters, 2014, 105, .	3.3	9
28	Resolving protein mixtures using microfluidic diffusional sizing combined with synchrotron radiation circular dichroism. Lab on A Chip, 2019, 19, 50-58.	6.0	8
29	Characterization of homemade UV-LED photolithography to realize high aspect ratio channels. AIP Conference Proceedings, 2020, , .	0.4	5
30	General aspects of solid on liquid growth mechanisms. Journal of Physics: Conference Series, 2009, 182, 012029.	0.4	4
31	Tuneable bioinspired lens. Bioinspiration and Biomimetics, 2015, 10, 046004.	2.9	4
32	Quantifying Measurement Fluctuations from Stochastic Surface Processes on Sensors with Heterogeneous Sensitivity. Physical Review Applied, 2016, 5, .	3.8	4
33	Design and Development of a Disposable Lab-on-a-Chip for Prostate Cancer Detection. , 2019, 2019, 1579-1583.		4
34	Nanoscale structure and morphology of thin films of poly(2-chloroxylylene) synthesized by the CVD method on different liquids. European Polymer Journal, 2011, 47, 1725-1735.	5.4	3
35	Micromechanical piezoelectric-on-silicon BAW resonators for sensing in liquid environments. , 2015, , .		3
36	The effect of mass loading on spurious modes in micro-resonators. Applied Physics Letters, 2015, 107, .	3.3	2

#	ARTICLE	IF	CITATIONS
37	Design and evaluation of pneumatic micropump module for a portable polymerase chain reaction kit. AIP Conference Proceedings, 2019, , .	0.4	2
38	Graphene FET Sensors for Alzheimerâ€™s Disease Protein Biomarker Clusterin Detection. , 2020, , .		2
39	Planar optical integrated circuits based on UV-patternable sol-gel technology. , 2003, 4876, 295.		1
40	Liquid as template for next generation micro devices. Journal of Physics: Conference Series, 2009, 182, 012021.	0.4	1
41	New approach to chemical functionalization of poly(2â€™chloroxylylene) thin films. Journal of Applied Polymer Science, 2011, 119, 1528-1531.	2.6	1
42	2-Photon Lithography for Nanofluidic Lab-on-Chip Devices. Biophysical Journal, 2018, 114, 689a.	0.5	0
43	3D microfluidics spray nozzle for sample processing and materials deposition. AIP Conference Proceedings, 2019, , .	0.4	0