

Sagnik Basuray

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

740
citations

623188

14
h-index

610482

24
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31
all docs

31
docs citations

31
times ranked

946
citing authors

#	ARTICLE	IF	CITATIONS
1	A Versatile Self-Assembly Approach toward High Performance Nanoenergetic Composite Using Functionalized Graphene. <i>Langmuir</i> , 2014, 30, 6556-6564.	1.6	91
2	Induced dipoles and dielectrophoresis of nanocolloids in electrolytes. <i>Physical Review E</i> , 2007, 75, 060501.	0.8	83
3	Metal-Organic Framework-Based Microfluidic Impedance Sensor Platform for Ultrasensitive Detection of Perfluorooctanesulfonate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10503-10514.	4.0	77
4	Shear and AC Field Enhanced Carbon Nanotube Impedance Assay for Rapid, Sensitive, and Mismatch-Discriminating DNA Hybridization. <i>ACS Nano</i> , 2009, 3, 1823-1830.	7.3	74
5	A rapid field-use assay for mismatch number and location of hybridized DNAs. <i>Lab on A Chip</i> , 2010, 10, 828.	3.1	62
6	Probing the Sorption of Perfluorooctanesulfonate Using Mesoporous Metal-Organic Frameworks from Aqueous Solutions. <i>Inorganic Chemistry</i> , 2019, 58, 8339-8346.	1.9	51
7	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS ₂ Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1801286.	7.8	35
8	Designing a sensitive and quantifiable nanocolloid assay with dielectrophoretic crossover frequencies. <i>Biomicrofluidics</i> , 2010, 4, 013205.	1.2	30
9	Plasmonic gratings with nano-protrusions made by glancing angle deposition for single-molecule super-resolution imaging. <i>Nanoscale</i> , 2016, 8, 12189-12201.	2.8	29
10	Statistical analysis of undergraduate chemical engineering curricula of United States of America universities: Trends and observations. <i>Education for Chemical Engineers</i> , 2017, 20, 1-10.	2.8	22
11	Ionic conductivity enhancement of sputtered gold nanoparticle-in-ionic liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 792-803.	5.2	21
12	Improving the sensitivity of electrochemical sensors through a complementary luminescent mode: A new spectroelectrochemical approach. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 663-674.	4.0	21
13	Dynamic double layer effects on ac-induced dipoles of dielectric nanocolloids. <i>Biomicrofluidics</i> , 2010, 4, 022801.	1.2	20
14	A Nanomembrane-Based Nucleic Acid Sensing Platform for Portable Diagnostics. <i>Topics in Current Chemistry</i> , 2011, 304, 153-169.	4.0	20
15	Experimental determination and computational prediction of the mixing efficiency of a simple, continuous, serpentine-channel microdevice. <i>Chemical Engineering Research and Design</i> , 2021, 167, 303-317.	2.7	14
16	ESSENCE – A rapid, shear-enhanced, flow-through, capacitive electrochemical platform for rapid detection of biomolecules. <i>Biosensors and Bioelectronics</i> , 2021, 182, 113163.	5.3	14
17	Effect of electrode configuration on the sensitivity of nucleic acid detection in a non-planar, flow-through, porous interdigitated electrode. <i>Biomicrofluidics</i> , 2019, 13, 064118.	1.2	13
18	Universal method for fabricating PDMS microfluidic device using SU8, 3D printing and soft lithography. <i>Technology</i> , 2020, 08, 50-57.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Communicationâ€™ Electrochemical Impedance Signature of a Non-Planar, Interdigitated, Flow-Through, Porous, Carbon-Based Microelectrode. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1669-B1672.	1.3	11
20	A compact low-cost low-maintenance open architecture mask aligner for fabrication of multilayer microfluidics devices. <i>Biomicrofluidics</i> , 2018, 12, 044119.	1.2	10
21	Plasmonic nano-protrusions: hierarchical nanostructures for single-molecule Raman spectroscopy. <i>Nanotechnology</i> , 2017, 28, 025302.	1.3	9
22	Enhanced DNA Detection Through the Incorporation of Nanocones and Cavities Into a Plasmonic Grating Sensor Platform. <i>IEEE Sensors Journal</i> , 2016, 16, 3403-3408.	2.4	8
23	Identification and separation of DNAâ€™hybridized nanocolloids by Taylor cone harmonics. <i>Electrophoresis</i> , 2009, 30, 3236-3241.	1.3	5
24	Cell Sequence and Mitosis Affect Fibroblast Directional Decision-Making During Chemotaxis in Microfluidic Mazes. <i>Cellular and Molecular Bioengineering</i> , 2018, 11, 483-494.	1.0	5
25	Enhanced fluorescence through the incorporation of nanocones/gaps into a plasmonic gratings sensor platform. , 2014, , .		2
26	Sensitive and Selective Determination of multiple Diagnostic Targets using a Modular, ASSURED POC Platform called ESSENCE. , 2022, , .		1
27	Erratum â€™ Universal method for fabricating PDMS microfluidic device using SU8, 3D printing and soft lithography. <i>Systematic Bioscience and Engineering</i> , 0, , 1-1.	0.0	0
28	A Novel Non-Planar, Interdigitated Microelectrode Array with a Porous, Flow-through Working Electrode for Highly Sensitive and Selective Detection of Various Chem/Bio-Molecules. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
29	Essence: A Shear-Enhanced, Flow-through, Nanoporous and Capacitive Electrode Technology with Non-Planar Interdigitated Micro-Electrodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0