

# 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  
g-index

31  
all docs

31  
docs citations

31  
times ranked

946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitive and Selective Determination of multiple Diagnostic Targets using a Modular, ASSURED POC Platform called ESSENCE. , 2022, , .		1
2	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
3	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
4	Metal–Organic Framework-Based Microfluidic Impedance Sensor Platform for Ultrasensitive Detection of Perfluorooctanesulfonate. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10503-10514.	4.0	77
5	Universal method for fabricating PDMS microfluidic device using SU8, 3D printing and soft lithography. <i>Technology</i> , 2020, 08, 50-57.	1.4	12
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	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
8	Communication – 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
9	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
10	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
11	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
12	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
13	Theoretical and Experimental Insight into the Mechanism for Spontaneous Vertical Growth of ReS <sub>2</sub> Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1801286.	7.8	35
14	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
15	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
16	Plasmonic nano-protrusions: hierarchical nanostructures for single-molecule Raman spectroscopy. <i>Nanotechnology</i> , 2017, 28, 025302.	1.3	9
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Enhanced fluorescence through the incorporation of nanocones/gaps into a plasmonic gratings sensor platform. , 2014, , .		2
20	Ionic conductivity enhancement of sputtered gold nanoparticle-in-ionic liquid electrolytes. Journal of Materials Chemistry A, 2014, 2, 792-803.	5.2	21
21	A Versatile Self-Assembly Approach toward High Performance Nanoenergetic Composite Using Functionalized Graphene. Langmuir, 2014, 30, 6556-6564.	1.6	91
22	A Nanomembrane-Based Nucleic Acid Sensing Platform for Portable Diagnostics. Topics in Current Chemistry, 2011, 304, 153-169.	4.0	20
23	Dynamic double layer effects on ac-induced dipoles of dielectric nanocolloids. Biomicrofluidics, 2010, 4, 022801.	1.2	20
24	Designing a sensitive and quantifiable nanocolloid assay with dielectrophoretic crossover frequencies. Biomicrofluidics, 2010, 4, 013205.	1.2	30
25	A rapid field-use assay for mismatch number and location of hybridized DNAs. Lab on A Chip, 2010, 10, 828.	3.1	62
26	Identification and separation of DNA- $\epsilon$ hybridized nanocolloids by Taylor cone harmonics. Electrophoresis, 2009, 30, 3236-3241.	1.3	5
27	Shear and AC Field Enhanced Carbon Nanotube Impedance Assay for Rapid, Sensitive, and Mismatch-Discriminating DNA Hybridization. ACS Nano, 2009, 3, 1823-1830.	7.3	74
28	Induced dipoles and dielectrophoresis of nanocolloids in electrolytes. Physical Review E, 2007, 75, 060501.	0.8	83
29	Erratum "Universal method for fabricating PDMS microfluidic device using SU8, 3D printing and soft lithography. Systematic Bioscience and Engineering, 0, , 1-1.	0.0	0