

Nikhil Bhalla

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,313
citations

331670

21
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

3069
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoplasmonic biosensor for rapid detection of multiple viral variants in human serum. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131906.	7.8	32
2	Biosensors for rapid detection of bacterial pathogens in water, food and environment. <i>Environment International</i> , 2022, 166, 107357.	10.0	62
3	Nanotechnology for inflammatory bowel disease management: Detection, imaging and treatment. <i>Sensing and Bio-Sensing Research</i> , 2021, 32, 100417.	4.2	33
4	Designing magnetic nanoparticles for in vivo applications and understanding their fate inside human body. <i>Coordination Chemistry Reviews</i> , 2021, 445, 214082.	18.8	28
5	Deterministic particle assembly on nanophotonic chips. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 259-269.	9.4	0
6	Clinical evaluation of SARS-CoV-2 lung HRCT and RT-PCR Techniques: Towards risk factor based diagnosis of infectious diseases. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2699-2707.	4.1	3
7	Doping Independent Work Function and Stable Band Gap of Spinel Ferrites with Tunable Plasmonic and Magnetic Properties. <i>Nano Letters</i> , 2021, 21, 9780-9788.	9.1	22
8	Independent and grouped 3D cell rotation in a microfluidic device for bioimaging applications. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112661.	10.1	16
9	Nanophotonic-Carbohydrate Lab-on-a-Microneedle for Rapid Detection of Human Cystatin C in Finger-Prick Blood. <i>ACS Nano</i> , 2020, 14, 11939-11949.	14.6	31
10	Opportunities and Challenges for Biosensors and Nanoscale Analytical Tools for Pandemics: COVID-19. <i>ACS Nano</i> , 2020, 14, 7783-7807.	14.6	284
11	A review on MnZn ferrites: Synthesis, characterization and applications. <i>Ceramics International</i> , 2020, 46, 15740-15763.	4.8	220
12	Real-time monitoring of DNA immobilization and detection of DNA polymerase activity by a microfluidic nanoplasmonic platform. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111528.	10.1	49
13	Electrical Contact of Metals at the Nanoscale Overcomes the Oxidative Susceptibility of Silver-Based Nanobiosensors. <i>ACS Applied Nano Materials</i> , 2019, 2, 2064-2075.	5.0	16
14	Dewetting Metal Nanofilms—Effect of Substrate on Refractive Index Sensitivity of Nanoplasmonic Gold. <i>Nanomaterials</i> , 2019, 9, 1530.	4.1	27
15	Large-Scale Nanophotonic Structures for Long-Term Monitoring of Cell Proliferation. <i>Advanced Biology</i> , 2018, 2, 1700258.	3.0	13
16	Plasma-Assisted Large-Scale Nanoassembly of Metal-Insulator Bioplasmonic Mushrooms. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 219-226.	8.0	36
17	Probing specific gravity in real-time with graphene oxide plasmonics. <i>Analytical Methods</i> , 2018, 10, 290-297.	2.7	7
18	Cell biology at the interface of nanobiosensors and microfluidics. <i>Methods in Cell Biology</i> , 2018, 148, 203-227.	1.1	7

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19	Exploiting the signatures of nanoplasmonâ€“exciton coupling on proton sensitive insulatorâ€“semiconductor devices for drug discovery applications. <i>Nanoscale</i> , 2018, 10, 13320-13328.	5.6	3
20	Nanoplasmonics for Real-Time and Label-Free Monitoring of Microbial Biofilm Formation. <i>ACS Sensors</i> , 2018, 3, 1499-1509.	7.8	28
21	Nanomaterial Fungicides: In Vitro and In Vivo Antimycotic Activity of Cobalt and Nickel Nanoferrites on Phytopathogenic Fungi. <i>Global Challenges</i> , 2017, 1, 1700041.	3.6	57
22	Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures. <i>Nanoscale</i> , 2017, 9, 547-554.	5.6	19
23	Semiconductor technology in protein kinase research and drug discovery: sensing a revolution. <i>Drug Discovery Today</i> , 2017, 22, 204-209.	6.4	4
24	Raman and MÃ¶ssbauer spectroscopic studies of tungsten doped Niâ€“Zn nano ferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 679-685.	2.2	12
25	Biosensors for Screening Kinase Inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2470-2481.	2.1	0
26	Novel refractive index biosensing of microcontact printed molecules on lithium niobate. , 2016, 2016, 2095-2098.		0
27	Inexpensive and fast pathogenic bacteria screening using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2016, 85, 103-109.	10.1	33
28	Introduction to biosensors. <i>Essays in Biochemistry</i> , 2016, 60, 1-8.	4.7	858
29	Hybrid Synthetic Receptors on MOSFET Devices for Detection of Prostate Specific Antigen in Human Plasma. <i>Analytical Chemistry</i> , 2016, 88, 11486-11490.	6.5	35
30	Optimisation and Characterisation of Anti-Fouling Ternary SAM Layers for Impedance-Based Aptasensors. <i>Sensors</i> , 2015, 15, 25015-25032.	3.8	50
31	Optimisation of an electrochemical impedance spectroscopy aptasensor by exploiting quartz crystal microbalance with dissipation signals. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 369-375.	7.8	58
32	Multimodal electrochemical and nanoplasmonic biosensors using ferrocene-crowned nanoparticles for kinase drug discovery applications. <i>Electrochemistry Communications</i> , 2015, 57, 70-73.	4.7	18
33	Plasmonic ruler on field-effect devices for kinase drug discovery applications. <i>Biosensors and Bioelectronics</i> , 2015, 71, 121-128.	10.1	23
34	Protein phosphorylation detection using dual-mode field-effect devices and nanoplasmonic sensors. <i>Scientific Reports</i> , 2015, 5, 8687.	3.3	32
35	Protein phosphorylation analysis based on proton release detection: Potential tools for drug discovery. <i>Biosensors and Bioelectronics</i> , 2014, 54, 109-114.	10.1	30
36	Localized Surface Plasmon Resonance as a Biosensing Platform for Developing Countries. <i>Biosensors</i> , 2014, 4, 172-188.	4.7	142

#	ARTICLE	IF	CITATIONS
37	Electrowetting enabled magnetic particle immunoassay with on-chip magnetic washing. , 2013, , .		0
38	Microfluidic Platform for Enzyme-Linked and Magnetic Particle-Based Immunoassay. Micromachines, 2013, 4, 257-271.	2.9	17
39	Finite element analysis of MEMS square piezoresistive accelerometer designs with low crosstalk. , 2011, , .		6