

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	Introduction to biosensors. <i>Essays in Biochemistry</i> , 2016, 60, 1-8.	4.7	858
2	Opportunities and Challenges for Biosensors and Nanoscale Analytical Tools for Pandemics: COVID-19. <i>ACS Nano</i> , 2020, 14, 7783-7807.	14.6	284
3	A review on MnZn ferrites: Synthesis, characterization and applications. <i>Ceramics International</i> , 2020, 46, 15740-15763.	4.8	220
4	Localized Surface Plasmon Resonance as a Biosensing Platform for Developing Countries. <i>Biosensors</i> , 2014, 4, 172-188.	4.7	142
5	Biosensors for rapid detection of bacterial pathogens in water, food and environment. <i>Environment International</i> , 2022, 166, 107357.	10.0	62
6	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
7	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
8	Optimisation and Characterisation of Anti-Fouling Ternary SAM Layers for Impedance-Based Aptasensors. <i>Sensors</i> , 2015, 15, 25015-25032.	3.8	50
9	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
10	Plasma-Assisted Large-Scale Nanoassembly of Metal-Insulator Bioplasmonic Mushrooms. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 219-226.	8.0	36
11	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
12	Inexpensive and fast pathogenic bacteria screening using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2016, 85, 103-109.	10.1	33
13	Nanotechnology for inflammatory bowel disease management: Detection, imaging and treatment. <i>Sensing and Bio-Sensing Research</i> , 2021, 32, 100417.	4.2	33
14	Protein phosphorylation detection using dual-mode field-effect devices and nanoplasmonic sensors. <i>Scientific Reports</i> , 2015, 5, 8687.	3.3	32
15	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
16	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
17	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
18	Nanoplasmonics for Real-Time and Label-Free Monitoring of Microbial Biofilm Formation. <i>ACS Sensors</i> , 2018, 3, 1499-1509.	7.8	28

#	ARTICLE	IF	CITATIONS
19	Designing magnetic nanoparticles for in vivo applications and understanding their fate inside human body. Coordination Chemistry Reviews, 2021, 445, 214082.	18.8	28
20	Dewetting Metal Nanofilms—Effect of Substrate on Refractive Index Sensitivity of Nanoplasmonic Gold. Nanomaterials, 2019, 9, 1530.	4.1	27
21	Plasmonic ruler on field-effect devices for kinase drug discovery applications. Biosensors and Bioelectronics, 2015, 71, 121-128.	10.1	23
22	Doping Independent Work Function and Stable Band Gap of Spinel Ferrites with Tunable Plasmonic and Magnetic Properties. Nano Letters, 2021, 21, 9780-9788.	9.1	22
23	Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures. Nanoscale, 2017, 9, 547-554.	5.6	19
24	Multimodal electrochemical and nanoplasmonic biosensors using ferrocene-crowned nanoparticles for kinase drug discovery applications. Electrochemistry Communications, 2015, 57, 70-73.	4.7	18
25	Microfluidic Platform for Enzyme-Linked and Magnetic Particle-Based Immunoassay. Micromachines, 2013, 4, 257-271.	2.9	17
26	Electrical Contact of Metals at the Nanoscale Overcomes the Oxidative Susceptibility of Silver-Based Nanobiosensors. ACS Applied Nano Materials, 2019, 2, 2064-2075.	5.0	16
27	Independent and grouped 3D cell rotation in a microfluidic device for bioimaging applications. Biosensors and Bioelectronics, 2020, 170, 112661.	10.1	16
28	Large-Scale Nanophotonic Structures for Long-Term Monitoring of Cell Proliferation. Advanced Biology, 2018, 2, 1700258.	3.0	13
29	Raman and Mössbauer spectroscopic studies of tungsten doped Ni—Zn nano ferrite. Journal of Materials Science: Materials in Electronics, 2017, 28, 679-685.	2.2	12
30	Probing specific gravity in real-time with graphene oxide plasmonics. Analytical Methods, 2018, 10, 290-297.	2.7	7
31	Cell biology at the interface of nanobiosensors and microfluidics. Methods in Cell Biology, 2018, 148, 203-227.	1.1	7
32	Finite element analysis of MEMS square piezoresistive accelerometer designs with low crosstalk. , 2011, , .		6
33	Semiconductor technology in protein kinase research and drug discovery: sensing a revolution. Drug Discovery Today, 2017, 22, 204-209.	6.4	4
34	Exploiting the signatures of nanoplasmon—exciton coupling on proton sensitive insulator—semiconductor devices for drug discovery applications. Nanoscale, 2018, 10, 13320-13328.	5.6	3
35	Clinical evaluation of SARS-CoV-2 lung HRCT and RT-PCR Techniques: Towards risk factor based diagnosis of infectious diseases. Computational and Structural Biotechnology Journal, 2021, 19, 2699-2707.	4.1	3
36	Electrowetting enabled magnetic particle immunoassay with on-chip magnetic washing. , 2013, , .		0

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37	Novel refractive index biosensing of microcontact printed molecules on lithium niobate. , 2016, 2016, 2095-2098.		0
38	Deterministic particle assembly on nanophotonic chips. Journal of Colloid and Interface Science, 2021, 603, 259-269.	9.4	0
39	Biosensors for Screening Kinase Inhibitors. Current Topics in Medicinal Chemistry, 2017, 17, 2470-2481.	2.1	0