

Suman Singh

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,560
citations

257450

24
h-index

189892

50
g-index

62
all docs

62
docs citations

62
times ranked

3372
citing authors

#	ARTICLE	IF	CITATIONS
1	Zirconium metal organic framework based opto-electrochemical sensor for nitrofurazone detection. <i>Journal of Electroanalytical Chemistry</i> , 2022, 909, 116124.	3.8	18
2	White graphene quantum dots as electrochemical sensing platform for ferritin. <i>Faraday Discussions</i> , 2021, 227, 204-212.	3.2	22
3	Advancement in biosensors for inflammatory biomarkers of SARS-CoV-2 during 2019â€“2020. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112703.	10.1	32
4	Amine-Functionalized Graphene Quantum Dots for Fluorescence-Based Immunosensing of Ferritin. <i>ACS Applied Nano Materials</i> , 2021, 4, 7416-7425.	5.0	24
5	Advancements in 2D Materials Based Biosensors for Oxidative Stress Biomarkers. <i>ACS Applied Bio Materials</i> , 2021, 4, 5944-5960.	4.6	17
6	Sensitive impedimetric detection of troponin I with metalâ€“organic framework composite electrode. <i>RSC Advances</i> , 2021, 11, 2167-2174.	3.6	19
7	Particle size reduction of RDX by sequential application of solventâ€“antisolvent recrystallization and mechanical methods. <i>Journal of Energetic Materials</i> , 2020, 38, 309-325.	2.0	9
8	Label-free approach for electrochemical ferritin sensing using biosurfactant stabilized tungsten disulfide quantum dots. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111979.	10.1	27
9	Copper Based Organic Framework Modified Electrode for Selective and Sensitive Detection of Ciprofloxacin. <i>Electroanalysis</i> , 2020, 32, 2442-2451.	2.9	19
10	Microfluidic-Based Electrochemical Immunosensing of Ferritin. <i>Biosensors</i> , 2020, 10, 91.	4.7	29
11	Highly Sensitive Optical Detection of <i>Escherichia coli</i> Using Terbium-Based Metalâ€“Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48198-48205.	8.0	50
12	Lysine-Functionalized Tungsten Disulfide Quantum Dots as Artificial Enzyme Mimics for Oxidative Stress Biomarker Sensing. <i>ACS Omega</i> , 2020, 5, 1927-1937.	3.5	10
13	Magnetically retrievable Ce-doped Fe ₃ O ₄ nanoparticles as scaffolds for the removal of azo dyes. <i>RSC Advances</i> , 2019, 9, 23129-23141.	3.6	37
14	<p>Development of biosurfactant-based graphene quantum dot conjugate as a novel and fluorescent theranostic tool for cancer<p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 809-818.	6.7	45
15	Electrochemical detection and photocatalytic performance of MoS ₂ /TiO ₂ nanocomposite against pharmaceutical contaminant: Paracetamol. <i>Sensing and Bio-Sensing Research</i> , 2019, 24, 100288.	4.2	32
16	Polydopamine functionalized hydrogel beads as magnetically separable antibacterial materials. <i>RSC Advances</i> , 2019, 9, 13444-13457.	3.6	15
17	Electro-deposition of bactericidal and corrosion-resistant hydroxyapatite nanoslabs. <i>RSC Advances</i> , 2019, 9, 11170-11178.	3.6	14
18	Application of aqueous phase CdSe quantum dots for formaldehyde sensing. <i>International Journal of Nanoparticles</i> , 2019, 11, 1.	0.3	0

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19	Size Reduction of HNS to Nanoscale by in Tandem Application of Chemo-mechanical methods. Propellants, Explosives, Pyrotechnics, 2019, 44, 301-312.	1.6	7
20	Enhanced hydrothermal stability of Cu MOF by post synthetic modification with amino acids. Vacuum, 2019, 164, 449-457.	3.5	75
21	An electrochemical aptasensor based on gold nanoparticles and graphene oxide doped poly(3,4-ethylenedioxythiophene) nanocomposite for detection of MUC1. Journal of Electroanalytical Chemistry, 2018, 813, 102-108.	3.8	51
22	Effect of cellulose beads on shear-thickening behavior in concentrated polymer dispersions. Colloid and Polymer Science, 2018, 296, 883-893.	2.1	13
23	Emerging biosensor platforms for the assessment of water-borne pathogens. Analyst, The, 2018, 143, 359-373.	3.5	69
24	Biocompatible gadolinium oxide nanoparticles as efficient agent against pathogenic bacteria. Journal of Colloid and Interface Science, 2018, 529, 496-504.	9.4	22
25	Ultrasonication assisted fabrication of l-lysine functionalized gadolinium oxide nanoparticles and its biological acceptability. Ultrasonics Sonochemistry, 2018, 49, 53-62.	8.2	6
26	Cadmium chalcogenide derived fluorescent quanta-sensor for melamine detection. Sensors and Actuators B: Chemical, 2018, 273, 505-510.	7.8	13
27	Electrochemical sensing and remediation of 4-nitrophenol using bio-synthesized copper oxide nanoparticles. Chemical Engineering Journal, 2017, 313, 283-292.	12.7	152
28	Molybdenum disulfide quantum dot based highly sensitive impedimetric immunoassay for prostate specific antigen. Mikrochimica Acta, 2017, 184, 4647-4654.	5.0	21
29	Photocatalytic and antibacterial biomimetic ZnO nanoparticles. Analytical Methods, 2017, 9, 4776-4782.	2.7	27
30	Organic-inorganic hybrid matrix for electrochemical biosensing of tyrosine. Materials Research Bulletin, 2017, 94, 520-527.	5.2	3
31	Core-shell nanostructures: an insight into their synthetic approaches. , 2017, , 35-50.		5
32	Micro-EDM multiple parameter optimization for Cp titanium. International Journal of Advanced Manufacturing Technology, 2017, 89, 897-904.	3.0	38
33	Developments in the Electrochemical Bionanosensors for the Predictive Diagnosis of Prostate and Breast Cancer. , 2017, , 253-278.		1
34	A label-free electrochemical immunosensor for the detection of cardiac marker using graphene quantum dots (GQDs). Biosensors and Bioelectronics, 2016, 86, 548-556.	10.1	139
35	Structural Characterization of Silver-Hydroxyapatite Nanocomposite: A Bone Repair Biomaterial. Materials Today: Proceedings, 2016, 3, 2113-2120.	1.8	16
36	Impedometric phenol sensing using graphenated electrochip. Sensors and Actuators B: Chemical, 2016, 237, 318-328.	7.8	24

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37	Musculoskeletal-based finite element analysis of femur after total hip replacement. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 553-560.	1.8	7
38	Gold nanoparticles-reduced graphene oxide based electrochemical immunosensor for the cardiac biomarker myoglobin. Mikrochimica Acta, 2016, 183, 1729-1738.	5.0	73
39	Effect of capping agents on optical and antibacterial properties of cadmium selenide quantum dots. Bulletin of Materials Science, 2015, 38, 1247-1252.	1.7	12
40	Chemical phase analysis of seed mediated synthesized anisotropic silver nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	1
41	Influence of a PbS layer on the optical and electronic properties of ZnO@PbS core-shell nanorod thin films. Journal of Materials Chemistry C, 2015, 3, 6086-6093.	5.5	15
42	Green synthesis of multi-shaped silver nanoparticles: optical, morphological and antibacterial properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 3638-3648.	2.2	52
43	Preparation and coating of nano-ceramic on orthopaedic implant material using electrostatic spray deposition. Materials and Design, 2015, 88, 278-286.	7.0	31
44	In-Situ Electrochemical Synthesis Of Prussian Blue Composite With Gold Nanoparticles And Its Application In Hydrogen Peroxide Biosensor. Advanced Materials Letters, 2015, 6, 760-767.	0.6	1
45	Synthesis of Novel Multiple Shaped Silver Nanoparticles Incorporated Hydroxyapatite anocomposite for Orthopaedic Body Implants. Advanced Science Letters, 2014, 20, 1297-1302.	0.2	6
46	Structural, thermal, zeta potential and electrical properties of disaccharide reduced silver nanoparticles. Journal of Materials Science: Materials in Electronics, 2014, 25, 3747-3752.	2.2	61
47	Light harvesting efficiency of hybrid nano-composite for photovoltaic application. Solar Energy Materials and Solar Cells, 2014, 128, 231-239.	6.2	10
48	Conjugation of nano and quantum materials with bovine serum albumin (BSA) to study their biological potential. Journal of Luminescence, 2013, 141, 53-59.	3.1	16
49	Sol-gel based composite of gold nanoparticles as matrix for tyrosinase for amperometric catechol biosensor. Sensors and Actuators B: Chemical, 2013, 182, 161-169.	7.8	53
50	One step electrochemical synthesis of gold-nanoparticles-polypyrrole composite for application in catechin electrochemical biosensor. Analytical Methods, 2013, 5, 1024.	2.7	57
51	Luminescent behavior of cadmium sulfide quantum dots for gallic acid estimation. Nanotechnology, 2013, 24, 115602.	2.6	17
52	Isotherm behavior studies of silica nanoparticles: Role of surfactant concentration and particle size. , 2012, , .		1
53	Sensing behavior study of silica-coated Ag nanoparticles deposited on glassy carbon toward nitrobenzene. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	21
54	Sensing behavior of silica-coated Au nanoparticles towards nitrobenzene. Gold Bulletin, 2012, 45, 75-81.	2.4	19

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55	Synthesis, Characterization and Application of Silica-Gold Nano-Composites. AIP Conference Proceedings, 2011, , .	0.4	3
56	Application of conducting poly(aniline-co-pyrrole) film to cholesterol biosensor. Journal of Applied Polymer Science, 2007, 105, 3211-3219.	2.6	23
57	Immobilization of cholesterol esterase and cholesterol oxidase onto sol-gel films for application to cholesterol biosensor. Analytica Chimica Acta, 2007, 582, 335-343.	5.4	71
58	Sensors—An effective approach for the detection of explosives. Journal of Hazardous Materials, 2007, 144, 15-28.	12.4	437
59	Covalent immobilization of cholesterol esterase and cholesterol oxidase on polyaniline films for application to cholesterol biosensor. Analytica Chimica Acta, 2006, 568, 126-132.	5.4	122
60	Cholesterol biosensor based on cholesterol esterase, cholesterol oxidase and peroxidase immobilized onto conducting polyaniline films. Sensors and Actuators B: Chemical, 2006, 115, 534-541.	7.8	191
61	Preparation and characterization of an enzyme electrode based on cholesterol esterase and cholesterol oxidase immobilized onto conducting polypyrrole films. Journal of Applied Polymer Science, 2004, 91, 3769-3773.	2.6	20
62	Amperometric cholesterol biosensor based on immobilized cholesterol esterase and cholesterol oxidase on conducting polypyrrole films. Analytica Chimica Acta, 2004, 502, 229-234.	5.4	139