

# 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	Sensors“An effective approach for the detection of explosives. Journal of Hazardous Materials, 2007, 144, 15-28.	12.4	437
2	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
3	Electrochemical sensing and remediation of 4-nitrophenol using bio-synthesized copper oxide nanoparticles. Chemical Engineering Journal, 2017, 313, 283-292.	12.7	152
4	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
5	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
6	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
7	Enhanced hydrothermal stability of Cu MOF by post synthetic modification with amino acids. Vacuum, 2019, 164, 449-457.	3.5	75
8	Gold nanoparticles-reduced graphene oxide based electrochemical immunosensor for the cardiac biomarker myoglobin. Mikrochimica Acta, 2016, 183, 1729-1738.	5.0	73
9	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
10	Emerging biosensor platforms for the assessment of water-borne pathogens. Analyst, The, 2018, 143, 359-373.	3.5	69
11	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
12	One step electrochemical synthesis of gold-nanoparticles“polypyrrole composite for application in catechin electrochemical biosensor. Analytical Methods, 2013, 5, 1024.	2.7	57
13	Sol“gel based composite of gold nanoparticles as matix for tyrosinase for amperometric catechol biosensor. Sensors and Actuators B: Chemical, 2013, 182, 161-169.	7.8	53
14	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
15	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
16	Highly Sensitive Optical Detection of <i>Escherichia coli</i> Using Terbium-Based Metal“Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 48198-48205.	8.0	50
17	&lt;p&gt;Development of biosurfactant-based graphene quantum dot conjugate as a novel and fluorescent theranostic tool for cancer&lt;p&gt;. International Journal of Nanomedicine, 2019, Volume 14, 809-818.	6.7	45
18	Micro-EDM multiple parameter optimization for Cp titanium. International Journal of Advanced Manufacturing Technology, 2017, 89, 897-904.	3.0	38

#	ARTICLE	IF	CITATIONS
19	Magnetically retrievable Ce-doped Fe <sub>3</sub> O <sub>4</sub> nanoparticles as scaffolds for the removal of azo dyes. RSC Advances, 2019, 9, 23129-23141.	3.6	37
20	Electrochemical detection and photocatalytic performance of MoS <sub>2</sub> /TiO <sub>2</sub> nanocomposite against pharmaceutical contaminant: Paracetamol. Sensing and Bio-Sensing Research, 2019, 24, 100288.	4.2	32
21	Advancement in biosensors for inflammatory biomarkers of SARS-CoV-2 during 2019â€“2020. Biosensors and Bioelectronics, 2021, 171, 112703.	10.1	32
22	Preparation and coating of nano-ceramic on orthopaedic implant material using electrostatic spray deposition. Materials and Design, 2015, 88, 278-286.	7.0	31
23	Microfluidic-Based Electrochemical Immunosensing of Ferritin. Biosensors, 2020, 10, 91.	4.7	29
24	Photocatalytic and antibacterial biomimetic ZnO nanoparticles. Analytical Methods, 2017, 9, 4776-4782.	2.7	27
25	Label-free approach for electrochemical ferritin sensing using biosurfactant stabilized tungsten disulfide quantum dots. Biosensors and Bioelectronics, 2020, 151, 111979.	10.1	27
26	Impedometric phenol sensing using graphenated electrochip. Sensors and Actuators B: Chemical, 2016, 237, 318-328.	7.8	24
27	Amine-Functionalized Graphene Quantum Dots for Fluorescence-Based Immunosensing of Ferritin. ACS Applied Nano Materials, 2021, 4, 7416-7425.	5.0	24
28	Application of conducting poly(aniline-co-pyrrole) film to cholesterol biosensor. Journal of Applied Polymer Science, 2007, 105, 3211-3219.	2.6	23
29	Biocompatible gadolinium oxide nanoparticles as efficient agent against pathogenic bacteria. Journal of Colloid and Interface Science, 2018, 529, 496-504.	9.4	22
30	White graphene quantum dots as electrochemical sensing platform for ferritin. Faraday Discussions, 2021, 227, 204-212.	3.2	22
31	Sensing behavior study of silica-coated Ag nanoparticles deposited on glassy carbon toward nitrobenzene. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	21
32	Molybdenum disulfide quantum dot based highly sensitive impedimetric immunoassay for prostate specific antigen. Mikrochimica Acta, 2017, 184, 4647-4654.	5.0	21
33	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
34	Sensing behavior of silica-coated Au nanoparticles towards nitrobenzene. Gold Bulletin, 2012, 45, 75-81.	2.4	19
35	Copper Based Organic Framework Modified Electrode for Selective and Sensitive Detection of Ciprofloxacin. Electroanalysis, 2020, 32, 2442-2451.	2.9	19
36	Sensitive impedimetric detection of troponin I with metal-organic framework composite electrode. RSC Advances, 2021, 11, 2167-2174.	3.6	19

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37	Zirconium metal organic framework based opto-electrochemical sensor for nitrofurazone detection. <i>Journal of Electroanalytical Chemistry</i> , 2022, 909, 116124.	3.8	18
38	Luminescent behavior of cadmium sulfide quantum dots for gallic acid estimation. <i>Nanotechnology</i> , 2013, 24, 115602.	2.6	17
39	Advancements in 2D Materials Based Biosensors for Oxidative Stress Biomarkers. <i>ACS Applied Bio Materials</i> , 2021, 4, 5944-5960.	4.6	17
40	Conjugation of nano and quantum materials with bovine serum albumin (BSA) to study their biological potential. <i>Journal of Luminescence</i> , 2013, 141, 53-59.	3.1	16
41	Structural Characterization of Silver-Hydroxyapatite Nanocomposite: A Bone Repair Biomaterial. <i>Materials Today: Proceedings</i> , 2016, 3, 2113-2120.	1.8	16
42	Influence of a PbS layer on the optical and electronic properties of ZnO@PbS core-shell nanorod thin films. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6086-6093.	5.5	15
43	Polydopamine functionalized hydrogel beads as magnetically separable antibacterial materials. <i>RSC Advances</i> , 2019, 9, 13444-13457.	3.6	15
44	Electro-deposition of bactericidal and corrosion-resistant hydroxyapatite nanoslabs. <i>RSC Advances</i> , 2019, 9, 11170-11178.	3.6	14
45	Effect of cellulose beads on shear-thickening behavior in concentrated polymer dispersions. <i>Colloid and Polymer Science</i> , 2018, 296, 883-893.	2.1	13
46	Cadmium chalcogenide derived fluorescent quanta-sensor for melamine detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 505-510.	7.8	13
47	Effect of capping agents on optical and antibacterial properties of cadmium selenide quantum dots. <i>Bulletin of Materials Science</i> , 2015, 38, 1247-1252.	1.7	12
48	Light harvesting efficiency of hybrid nano-composite for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 231-239.	6.2	10
49	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
50	Particle size reduction of RDX by sequential application of solvent-antisolvent recrystallization and mechanical methods. <i>Journal of Energetic Materials</i> , 2020, 38, 309-325.	2.0	9
51	Musculoskeletal-based finite element analysis of femur after total hip replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 553-560.	1.8	7
52	Size Reduction of HNS to Nanoscale by in Tandem Application of Chemo-mechanical methods. <i>Propellants, Explosives, Pyrotechnics</i> , 2019, 44, 301-312.	1.6	7
53	Synthesis of Novel Multiple Shaped Silver Nanoparticles Incorporated Hydroxyapatite anocomposite for Orthopaedic Body Implants. <i>Advanced Science Letters</i> , 2014, 20, 1297-1302.	0.2	6
54	Ultrasonication assisted fabrication of l-lysine functionalized gadolinium oxide nanoparticles and its biological acceptability. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 53-62.	8.2	6

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55	Core-shell nanostructures: an insight into their synthetic approaches. , 2017, , 35-50.		5
56	Synthesis, Characterization and Application of Silica-Gold Nano-Composites. AIP Conference Proceedings, 2011, , .	0.4	3
57	Organic-inorganic hybrid matrix for electrochemical biosensing of tyrosine. Materials Research Bulletin, 2017, 94, 520-527.	5.2	3
58	Isotherm behavior studies of silica nanoparticles: Role of surfactant concentration and particle size. , 2012, , .		1
59	Chemical phase analysis of seed mediated synthesized anisotropic silver nanoparticles. AIP Conference Proceedings, 2015, , .	0.4	1
60	Developments in the Electrochemical Bionanosensors for the Predictive Diagnosis of Prostate and Breast Cancer. , 2017, , 253-278.		1
61	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
62	Application of aqueous phase CdSe quantum dots for formaldehyde sensing. International Journal of Nanoparticles, 2019, 11, 1.	0.3	0