

Jay Singh

List of Publications by Year in descending order

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75
papers

3,739
citations

101543

36
h-index

128289

60
g-index

75
all docs

75
docs citations

75
times ranked

4939
citing authors

#	ARTICLE	IF	CITATIONS
1	Potentialities of core@shell nanomaterials for biosensor technologies. <i>Materials Letters</i> , 2022, 306, 130912.	2.6	25
2	Voltage holding and self-discharge phenomenon in ZnO-Co ₃ O ₄ core-shell heterostructure for binder-free symmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 427, 131895.	12.7	46
3	Efficient electro-optical characteristics of bioinspired iron oxide nanoparticles synthesized by <i>Terminalia chebula</i> dried seed extract. <i>Materials Letters</i> , 2022, 307, 131053.	2.6	28
4	Smart and emerging nanomaterials-based biosensor for SARS-CoV-2 detection. <i>Materials Letters</i> , 2022, 307, 131092.	2.6	28
5	A highly efficient nanostructured Au@La ₂ O ₃ based platform for dopamine detection. <i>Materials Letters</i> , 2022, 308, 131231.	2.6	18
6	Trends of bioderived carbonaceous materials for futuristic biomedical applications. <i>Materials Letters</i> , 2022, 311, 131606.	2.6	15
7	Potentialities of nanomaterials for the management and treatment of metabolic syndrome: A new insight. <i>Materials Today Advances</i> , 2022, 13, 100198.	5.2	25
8	Phase modulation kinetics in TiO ₂ by manipulating pH: A dynamic of photoactivity at different combination of phase and pH. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164019.	5.5	8
9	Bioinspired quantum dots for cancer therapy: A mini-review. <i>Materials Letters</i> , 2022, 313, 131742.	2.6	22
10	Recent advancements of biogenic iron nanoparticles in cancer theranostics. <i>Materials Letters</i> , 2022, 313, 131769.	2.6	21
11	Preparation, antibacterial activity, and electrocatalytic detection of hydrazine based on biogenic CuFeO ₂ /PANI nanocomposites synthesized using <i>Aloe barbadensis miller</i> . <i>New Journal of Chemistry</i> , 2022, 46, 8805-8816.	2.8	30
12	Autonomous self-optimizing defects by refining energy levels through hydrogenation in CeO ₂ polymorphism: a walking mobility of oxygen vacancy with enhanced adsorption capabilities and photocatalytic stability. <i>New Journal of Chemistry</i> , 2022, 46, 5869-5880.	2.8	15
13	Phytosynthesized Magnetic Iron Oxide Nanoparticle from <i>Terminalia Chebula</i> (Harra) Seed Extract and its Sensing Application. <i>ECS Transactions</i> , 2022, 107, 20041-20048.	0.5	0
14	Bioderived Magnetic Iron Oxide Nanoparticles from Leaf Extract of <i>Argyrea Nervosa</i> for Electrochemical Biosensing of Pesticide. <i>ECS Transactions</i> , 2022, 107, 16343-16349.	0.5	1
15	Biogenic Synthesis Of Copper Oxide Nanoparticles: Characterization And Biosensing Application. <i>ECS Transactions</i> , 2022, 107, 20127-20133.	0.5	3
16	Preparation and Characterization of Nanohybrid La ₂ O ₃ -K Complexes for Electrochemical Study. <i>ECS Transactions</i> , 2022, 107, 15771-15776.	0.5	1
17	Internet of things (IoT) in nano-integrated wearable biosensor devices for healthcare applications. <i>Biosensors and Bioelectronics: X</i> , 2022, 11, 100153.	1.7	38
18	Design and synergistic effect of nano-sized epoxy-NiCo ₂ O ₄ nanocomposites for anticorrosion applications. <i>RSC Advances</i> , 2022, 12, 14888-14901.	3.6	8

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19	Plant-soil-microbes: A tripartite interaction for nutrient acquisition and better plant growth for sustainable agricultural practices. <i>Environmental Research</i> , 2022, 214, 113821.	7.5	81
20	Nanomaterials for Energy Storage Applications. <i>Clean Energy Production Technologies</i> , 2021, , 135-156.	0.5	1
21	Melt-quenched vanadium pentoxide-stabilized chitosan nanohybrids for efficient hydrazine detection. <i>Materials Advances</i> , 2021, 2, 6665-6675.	5.4	28
22	Tunable electrochemistry and efficient antibacterial activity of plant-mediated copper oxide nanoparticles synthesized by <i>Annona squamosa</i> seed extract for agricultural utility. <i>RSC Advances</i> , 2021, 11, 18050-18060.	3.6	60
23	Bioinspired triangular ZnO nanoclusters synthesized by <i>Argyrea nervosa</i> nascent leaf extract for the efficient electrochemical determination of vitamin C. <i>RSC Advances</i> , 2021, 11, 25752-25763.	3.6	40
24	Rapid Electrochemical Quantification for In Vitro Release Trait of Ophthalmic Drug Loaded within Mucoadhesive Metal Organic Framework (MOF). <i>ChemistrySelect</i> , 2021, 6, 3006-3012.	1.5	5
25	Carboxymethyl cellulose stabilized lead sulfide nanocrystals: Synthesis, characterization and catalytic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 620, 126572.	4.7	6
26	Nano-enabled wearable sensors for the Internet of Things (IoT). <i>Materials Letters</i> , 2021, 304, 130614.	2.6	45
27	Potentialities of bioinspired metal and metal oxide nanoparticles in biomedical sciences. <i>RSC Advances</i> , 2021, 11, 24722-24746.	3.6	88
28	Bi-enzyme functionalized electro-chemically reduced transparent graphene oxide platform for triglyceride detection. <i>Biomaterials Science</i> , 2019, 7, 1598-1606.	5.4	32
29	Recent advances in carbon based nanosystems for cancer theranostics. <i>Biomaterials Science</i> , 2017, 5, 901-952.	5.4	172
30	Bismuth oxide nanorods based immunosensor for mycotoxin detection. <i>Materials Science and Engineering C</i> , 2017, 70, 564-571.	7.3	44
31	Recent advances in mycotoxins detection. <i>Biosensors and Bioelectronics</i> , 2016, 81, 532-545.	10.1	237
32	Label-free piezoelectric immunosensor decorated with gold nanoparticles: Kinetic analysis and biosensing application. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 804-814.	7.8	54
33	Nanostructured SnO ₂ encapsulated guar-gum hybrid nanocomposites for electrocatalytic determination of hydrazine. <i>Materials Science and Engineering C</i> , 2016, 58, 432-441.	7.3	43
34	SnO ₂ quantum dots decorated on RGO: a superior sensitive, selective and reproducible performance for a H ₂ and LPG sensor. <i>Nanoscale</i> , 2015, 7, 11971-11979.	5.6	92
35	Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. <i>AIP Advances</i> , 2015, 5, .	1.3	43
36	A novel electrochemical piezoelectric label free immunosensor for aflatoxin B1 detection in groundnut. <i>Food Control</i> , 2015, 52, 60-70.	5.5	83

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37	Efficient water soluble nanostructured ZnO grafted O-carboxymethyl chitosan/curcumin-nanocomposite for cancer therapy. <i>Process Biochemistry</i> , 2015, 50, 678-688.	3.7	81
38	Recent advances in graphene and its metal-oxide hybrid nanostructures for lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 4820-4868.	5.6	169
39	Improved production of reducing sugars from rice straw using crude cellulase activated with Fe ₃ O ₄ /Alginate nanocomposite. <i>Bioresource Technology</i> , 2015, 183, 262-266.	9.6	86
40	Electrochemical piezoelectric reusable immunosensor for aflatoxin B1 detection. <i>Biochemical Engineering Journal</i> , 2015, 103, 103-113.	3.6	37
41	Consequence of pH variation on the dielectric properties of Cr-doped lithium ferrite nanoparticles synthesized by the sol-gel method. <i>Journal of Alloys and Compounds</i> , 2015, 645, 171-177.	5.5	25
42	Hexagonal Ceria Located at the Interface of Anatase/Rutile TiO ₂ Superstructure Optimized for High Activity under Combined UV and Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23899-23909.	3.1	36
43	Preparation and characterization of self-assembled layer by layer NiCo ₂ O ₄ -reduced graphene oxide nanocomposite with improved electrocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2014, 590, 266-276.	5.5	109
44	Influence of crystal size on the electron-phonon coupling in ZnO nanocrystals investigated by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2014, 72, 90-96.	2.2	38
45	Novel conducting lithium ferrite/chitosan nanocomposite: Synthesis, characterization, magnetic and dielectric properties. <i>Current Applied Physics</i> , 2014, 14, 980-990.	2.4	10
46	A dual enzyme functionalized nanostructured thulium oxide based interface for biomedical application. <i>Nanoscale</i> , 2014, 6, 1195-1208.	5.6	56
47	Synthesis, magnetic and Mössbauer spectroscopic studies of Cr doped lithium ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 591, 174-180.	5.5	42
48	Optical properties of carbon nanodots synthesized by laser induced fragmentation of graphite powder suspended in water. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 150-153.	4.0	3
49	In situ grafted nanostructured ZnO/carboxymethyl cellulose nanocomposites for efficient delivery of curcumin to cancer. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	63
50	Effect of Nickel-Cobaltite Nanoparticles on Production and Thermostability of Cellulases from Newly Isolated Thermotolerant <i>Aspergillus fumigatus</i> NS (Class: Eurotiomycetes). <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1092-1103.	2.9	58
51	The implications of recent advances in carboxymethyl chitosan based targeted drug delivery and tissue engineering applications. <i>Journal of Controlled Release</i> , 2014, 186, 54-87.	9.9	207
52	Preparation of sulfonated poly(ether-ether-ketone) functionalized ternary graphene/AuNPs/chitosan nanocomposite for efficient glucose biosensor. <i>Process Biochemistry</i> , 2013, 48, 1724-1735.	3.7	54
53	Quantum dots based platform for application to fish freshness biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 627-633.	7.8	19
54	A highly efficient rare earth metal oxide nanorods based platform for aflatoxin detection. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4493.	5.8	63

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55	Bienzyme-Functionalized Monodispersed Biocompatible Cuprous Oxide/Chitosan Nanocomposite Platform for Biomedical Application. Journal of Physical Chemistry B, 2013, 117, 141-152.	2.6	60
56	Optical and electro-catalytic studies of nanostructured thulium oxide for vitamin C detection. Journal of Alloys and Compounds, 2013, 578, 405-412.	5.5	15
57	Highly Efficient Bienzyme Functionalized Biocompatible Nanostructured Nickel Ferrite-Chitosan Nanocomposite Platform for Biomedical Application. Journal of Physical Chemistry C, 2013, 117, 8491-8502.	3.1	65
58	Electro-optical and magnetic properties of monodispersed colloidal Cu ₂ O nanoparticles. Journal of Alloys and Compounds, 2013, 555, 123-130.	5.5	29
59	Biomedical applications of carboxymethyl chitosans. Carbohydrate Polymers, 2013, 91, 452-466.	10.2	267
60	Tin Oxide Quantum Dot Based DNA Sensor for Pathogen Detection. Journal of Nanoscience and Nanotechnology, 2013, 13, 1671-1678.	0.9	20
61	Recent Progress in Antimicrobial Applications of Nanostructured Materials. Journal of Nanopharmaceutics and Drug Delivery, 2013, 1, 4-17.	0.3	4
62	Ring like self assembled Ni nanoparticles based biosensor for food toxin detection. Applied Physics Letters, 2012, 100, .	3.3	65
63	Nanostructured nickel oxide film for application to fish freshness biosensor. Applied Physics Letters, 2012, 101, .	3.3	16
64	Synthesis of superparamagnetic bare Fe ₃ O ₄ nanostructures and core/shell (Fe ₃ O ₄ /alginate) nanocomposites. Carbohydrate Polymers, 2012, 89, 821-829.	10.2	96
65	Synthesis, Growth Mechanism and Characterization of Single Crystalline γ -Fe ₂ O ₃ Spherical Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 6248-6257.	0.9	7
66	A novel ternary NiFe ₂ O ₄ /CuO/FeO-chitosan nanocomposite as a cholesterol biosensor. Process Biochemistry, 2012, 47, 2189-2198.	3.7	79
67	Antibacterial and Physicochemical Behavior of Prepared Chitosan/pyridine-3,5-di-carboxylic Acid Complex for Biomedical Applications. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 246-253.	2.2	15
68	Nanostructured nickel oxide-chitosan film for application to cholesterol sensor. Applied Physics Letters, 2011, 98, .	3.3	102
69	Preparation and properties of hybrid monodispersed magnetic γ -Fe ₂ O ₃ based chitosan nanocomposite film for industrial and biomedical applications. International Journal of Biological Macromolecules, 2011, 48, 170-176.	7.5	73
70	Biocompatible self-assembled monolayer platform based on (3-glycidoxypropyl)trimethoxysilane for total cholesterol estimation. Analytical Methods, 2011, 3, 2237.	2.7	33
71	In-situ synthesis of magnetic (NiFe ₂ O ₄ /CuO/FeO) nanocomposites. Journal of Solid State Chemistry, 2010, 183, 2669-2674.	2.9	15
72	Preparation, Antibacterial and Physicochemical Behavior of Chitosan/Ofloxacin Complexes. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 59, 793-807.	3.4	35

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73	Investigation on magnetic properties of γ -Fe ₂ O ₃ nanoparticles synthesized under surfactant-free condition by hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2010, 500, 206-210.	5.5	46
74	Preparation, circular dichroism induced helical conformation and optical property of chitosan acid salt complexes for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2009, 45, 384-392.	7.5	54
75	Natural Resources as Flame Retardants for Polyurethanes. <i>ACS Symposium Series</i> , 0, , 1-11.	0.5	1