Ravindra Pratap Singh

List of Publications by Year
in descending order

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77 papers	2,077 citations	257101 24 h-index	264894 42 g-index
87 all docs	87 docs citations	87 times ranked	1801 citing authors

#	Article	IF	Citations
1	Biological approach of zinc oxide nanoparticles formation and its characterization. Advanced Materials Letters, 2011, 2, 313-317.	0.3	201
2	Cerium oxide nanoparticles: properties, biosynthesis and biomedical application. RSC Advances, 2020, 10, 27194-27214.	1.7	189
3	Application of electrochemically prepared polypyrroleâ€“polyvinyl sulphonate films to DNA biosensor. Biosensors and Bioelectronics, 2006, 21, 1777-1783.	5.3	126
4	Potentialities of selenium nanoparticles in biomedical science. New Journal of Chemistry, 2021, 45, 2849-2878.	1.4	101
5	Potentialities of bioinspired metal and metal oxide nanoparticles in biomedical sciences. RSC Advances, 2021, 11, 24722-24746.	1.7	88
6	Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique. Talanta, 2006, 69, 918-926.	2.9	81
7	Application of peptide nucleic acid towards development of nanobiosensor arrays. Bioelectrochemistry, 2010, 79, 153-161.	2.4	81
8	Plant-soil-microbes: A tripartite interaction for nutrient acquisition and better plant growth for sustainable agricultural practices. Environmental Research, 2022, 214, 113821.	3.7	81
9	Recent Applications of Magnesium Oxide (MgO) Nanoparticles in various domains. Advanced Materials Letters, 2020, 11, 1-10.	0.3	62
10	Tunable electrochemistry and efficient antibacterial activity of plant-mediated copper oxide nanoparticles synthesized by Annona squamosa seed extract for agricultural utility. RSC Advances, 2021, 11, 18050-18060.	1.7	60
11	Black pepper assisted biomimetic synthesis of silver nanoparticles. Journal of Alloys and Compounds, 2010, 507, L13-L16.	2.8	58
12	Prospects of Nanobiomaterials for Biosensing. International Journal of Electrochemistry, 2011, 2011, 1-30.	2.4	53
13	Nano-enabled wearable sensors for the Internet of Things (IoT). Materials Letters, 2021, 304, 130614.	1.3	45
14	Bioinspired triangular ZnO nanoclusters synthesized by Argyreia nervosa nascent leaf extract for the efficient electrochemical determination of vitamin C. RSC Advances, 2021, 11, 25752-25763.	1.7	40
15	Internet of things (IoT) in nano-integrated wearable biosensor devices for healthcare applications. Biosensors and Bioelectronics: X, 2022, 11, 100153.	0.9	38
16	Silver/Polyaniline Nanocomposite for the Electrocatalytic Hydrazine Oxidation. Journal of Inorganic and Organometallic Polymers and Materials, 2011, 21, 788-792.	1.9	35
17	Potential applications of peptide nucleic acid in biomedical domain. Engineering Reports, 2020, 2, e12238.	0.9	31
18	Preparation, antibacterial activity, and electrocatalytic detection of hydrazine based on biogenic CuFeO₂/PANI nanocomposites synthesized using Aloe barbadensis miller. New Journal of Chemistry, 2022, 46, 8805-8816.	1.4	30

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19	Wigner distribution of elliptical quantum optical vortex. Optics Communications, 2011, 284, 256-261.	1.0	29
20	Entanglement measure using Wigner function: Case of generalized vortex state formed by multiphoton subtraction. Optics Communications, 2014, 330, 85-90.	1.0	28
21	Melt-quenched vanadium pentoxide-stabilized chitosan nanohybrids for efficient hydrazine detection. Materials Advances, 2021, 2, 6665-6675.	2.6	28
22	Efficient electro-optical characteristics of bioinspired iron oxide nanoparticles synthesized by Terminalia chebula dried seed extract. Materials Letters, 2022, 307, 131053.	1.3	28
23	Smart and emerging nanomaterials-based biosensor for SARS-CoV-2 detection. Materials Letters, 2022, 307, 131092.	1.3	28
24	Polyaniline based catalase biosensor for the detection of hydrogen peroxide and azide. Biotechnology and Bioprocess Engineering, 2009, 14, 443-449.	1.4	26
25	A simple detection platform based on molecularly imprinted polymer for AFB1 and FuB1 mycotoxins. Microchemical Journal, 2021, 171, 106730.	2.3	25
26	Potentialities of core@shell nanomaterials for biosensor technologies. Materials Letters, 2022, 306, 130912.	1.3	25
27	Potentialities of nanomaterials for the management and treatment of metabolic syndrome: A new insight. Materials Today Advances, 2022, 13, 100198.	2.5	25
28	Recent advancements of biogenic iron nanoparticles in cancer theranostics. Materials Letters, 2022, 313, 131769.	1.3	21
29	Glutathione-s-transferase based electrochemical biosensor for the detection of captan. Electrochemistry Communications, 2009, 11, 181-185.	2.3	20
30	Entanglement of a quantum optical elliptic vortex. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1926-1929.	0.9	20
31	Bionanomaterials for green bionanotechnology. , 0, , .		18
32	Wigner distribution of an optical vortex. Journal of Modern Optics, 2006, 53, 1803-1808.	0.6	17
33	Silver nanosieve using 1,2-benzenedicarboxylic acid: a sensor for detection of hydrogen peroxide. Analytical Methods, 2011, 3, 586.	1.3	16
34	Analysis of direct immobilized recombinant protein G on a gold surface. Ultramicroscopy, 2008, 108, 1152-1156.	0.8	15
35	Generating a perfect quantum optical vortex. Physical Review A, 2016, 94, .	1.0	15
36	Application of Nanomaterials Toward Development of Nanobiosensors and Their Utility in Agriculture. , 2017, , 293-303.		15

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37	Bio- Nanomaterials For Versatile Bio- Molecules Detection Technology. Advanced Materials Letters, 2010, 1, 83-84.	0.3	15
38	Trends of bioderived carbonaceous materials for futuristic biomedical applications. Materials Letters, 2022, 311, 131606.	1.3	15
39	Quantitative liquid chromatographic determination of sanguinarine in cell culture medium and in rat urine and plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 799, 195-200.	1.2	14
40	Prospects of Organic Conducting Polymer Modified Electrodes: Enzymosensors. International Journal of Electrochemistry, 2012, 2012, 1-14.	2.4	14
41	Current Scenario of Nanomaterials in the Environmental, Agricultural, and Biomedical Fields. , 2021, , 129-158.		14
42	Comparative effect of benzanthrone and 3-bromobenzanthrone on hepatic xenobiotic metabolism and anti-oxidative defense system in guinea pigs. Archives of Toxicology, 2003, 77, 94-99.	1.9	12
43	Entanglement propagation of a quantum optical vortex state. Optics Communications, 2016, 380, 492-498.	1.0	12
44	Electrochemical DNA Biosensor For The Detection Of Sanguinarine In Adulterated Mustard Oil. Advanced Materials Letters, 2010, 1, 48-54.	0.3	11
45	Introduction to bionanomaterials: an overview. , 0, , .		10
46	Evaluation of Dermal Irritancy Potential of Benzanthrone-Derived Dye Analogs: Structure Activity Relationship. Skin Pharmacology and Physiology, 2000, 13, 165-173.	1.1	9
47	Direct immobilization of cupredoxin azurin modified by site-directed mutagenesis on gold surface. Ultramicroscopy, 2008, 108, 1390-1395.	0.8	9
48	Utility of Nanomaterials in Food Safety. , 2019, , 285-318.		9
49	Nanobiosensors: Potentiality towards Bioanalysis. Journal of Bioanalysis & Biomedicine, 2016, 8, .	0.1	9
50	Nanofabrication of Bio-Self Assembled Monolayer and Its Electrochemical Property for Toxicant Detection. Journal of Nanoscience and Nanotechnology, 2011, 11, 408-412.	0.9	8
51	Potential of Biogenic Plant-Mediated Copper and Copper Oxide Nanostructured Nanoparticles and Their Utility. Nanotechnology in the Life Sciences, 2019, , 115-176.	0.4	8
52	Design and synergistic effect of nano-sized epoxy-NiCo₂O₄nanocomposites for anticorrosion applications. RSC Advances, 2022, 12, 14888-14901.	1.7	8
53	Charge storage investigation in self-assembled monolayer of redox-active recombinant azurin. Current Applied Physics, 2009, 9, e71-e75.	1.1	7
54	Nanomaterials in Bionanotechnology. , 0, , .		7

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55	Introduction to Composite Materials. , 2021, , 1-28.		5
56	Introduction to Nanomaterials. , 2021, , 1-35.		5
57	Recent Trends, Prospects, and Challenges of Nanobiosensors in Agriculture. Concepts and Strategies in Plant Sciences, 2021, , 3-13.	0.6	4
58	Utility of Nanobiosensors in Environmental Analysis and Monitoring. Environmental Chemistry for A Sustainable World, 2021, , 229-246.	0.3	4
59	Potential of Biogenic Plant-Mediated Iron and Iron Oxide Nanoparticles and Their Utility. Nanotechnology in the Life Sciences, 2019, , 77-113.	0.4	4
60	Nanocomposites: Recent Trends, Developments and Applications. , 2019, , 16-47.		4
61	Quadrature uncertainty and information entropy of quantum elliptical vortex states. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 225303.	0.7	3
62	Biogenic Synthesis Of Copper Oxide Nanoparticles: Characterization And Biosensing Application. ECS Transactions, 2022, 107, 20127-20133.	0.3	3
63	Displacement gain dependent fidelity in quantum teleportation using entangled two-mode squeezed light. Optical and Quantum Electronics, 2014, 46, 1127-1137.	1.5	2
64	Nanobiotechnology in animal production and health. , 2021, , 185-198.		2
65	Smart Nanomaterials for Biosensors, Biochips and Molecular Bioelectronics. , 2012, , 3-41.		2
66	Conducting Polymer-Based Microbial Fuel Cells. , 2021, , 337-344.		1
67	Introduction: potentialities of bionanomaterials towards the environmental and agricultural domain. , 0, , .		1
68	Biotechnology in animal nutrition and feed utilization. , 2022, , 339-369.		1
69	Bioderived Magnetic Iron Oxide Nanoparticles from Leaf Extract of Argyreia Nervosa for Electrochemical Biosensing of Pesticide. ECS Transactions, 2022, 107, 16343-16349.	0.3	1
70	Natural Resources as Flame Retardants for Polyurethanes. ACS Symposium Series, 0, , 1-11.	0.5	1
71	A SENSITIVE METHOD OF MONITORING EXPOSURE TO 3-BROMOBENZANTHRONE IN INDUSTRIAL DYESTUFF WORKERS. Toxicology Mechanisms and Methods, 2002, 12, 229-237.	1.3	0
72	Bio-Elimination of Conjugated Metabolites of 3-Bromobenzanthrone in Urine of Rats and Guinea Pigs. Toxicology Mechanisms and Methods, 2004, 14, 345-354.	1.3	0

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73	Role of biopesticides derived from bionanomaterials for enhanced food security and sustainable agriculture. , 0, , .		0
74	Enhancement of urinary elimination of 3-bromobenzanthrone metabolites by oral supplementation of ascorbic acid in guinea pigs. Biomedical and Environmental Sciences, 2004, 17, 390-6.	0.2	0
75	Future aspects of biosensor-based devices in disease detection. , 2022, , 423-439.		0
76	Waterborne Polyurethanes for Sensors. , 2021, , 333-353.		0
77	Phytosynthesized Magnetic Iron Oxide Nanoparticle from Terminalia Chebula (Harra) Seed Extract and its Sensing Application. ECS Transactions, 2022, 107, 20041-20048.	0.3	0