

Ravindra Pratap Singh

List of Publications by Citations

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74
papers

1,192
citations

16
h-index

32
g-index

86
ext. papers

1,550
ext. citations

2.9
avg, IF

5.24
L-index

#	Paper	IF	Citations
74	Biological Approach Of Zinc Oxide Nanoparticles Formation And Its Characterization. <i>Advanced Materials Letters</i> , 2011 , 2, 313-317	2.4	160
73	Application of electrochemically prepared polypyrrole-polyvinyl sulphonate films to DNA biosensor. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1777-83	11.8	106
72	Cerium oxide nanoparticles: properties, biosynthesis and biomedical application.. <i>RSC Advances</i> , 2020 , 10, 27194-27214	3.7	82
71	Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique. <i>Talanta</i> , 2006 , 69, 918-26	6.2	76
70	Application of peptide nucleic acid towards development of nanobiosensor arrays. <i>Bioelectrochemistry</i> , 2010 , 79, 153-61	5.6	69
69	Black pepper assisted biomimetic synthesis of silver nanoparticles. <i>Journal of Alloys and Compounds</i> , 2010 , 507, L13-L16	5.7	51
68	Potentialities of selenium nanoparticles in biomedical science. <i>New Journal of Chemistry</i> , 2021 , 45, 2849-2878	3.878	41
67	Prospects of Nanobiomaterials for Biosensing. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-30	2.4	40
66	Potentialities of bioinspired metal and metal oxide nanoparticles in biomedical sciences.. <i>RSC Advances</i> , 2021 , 11, 24722-24746	3.7	30
65	Silver/Polyaniline Nanocomposite for the Electrocatalytic Hydrazine Oxidation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011 , 21, 788-792	3.2	29
64	Wigner distribution of elliptical quantum optical vortex. <i>Optics Communications</i> , 2011 , 284, 256-261	2	28
63	Tunable electrochemistry and efficient antibacterial activity of plant-mediated copper oxide nanoparticles synthesized by seed extract for agricultural utility.. <i>RSC Advances</i> , 2021 , 11, 18050-18060	3.7	25
62	Recent Applications Of Magnesium Oxide (MgO) Nanoparticles In Various Domains. <i>Advanced Materials Letters</i> , 2020 , 11, 20081543-20081543	2.4	24
61	Entanglement measure using Wigner function: Case of generalized vortex state formed by multiphoton subtraction. <i>Optics Communications</i> , 2014 , 330, 85-90	2	23
60	Polyaniline based catalase biosensor for the detection of hydrogen peroxide and azide. <i>Biotechnology and Bioprocess Engineering</i> , 2009 , 14, 443-449	3.1	23
59	Entanglement of a quantum optical elliptic vortex. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1926-1929	2.3	20
58	nanosieve using : a sensor for detection of. <i>Analytical Methods</i> , 2011 , 3, 586-592	3.2	16

57	Glutathione-s-transferase based electrochemical biosensor for the detection of captan. <i>Electrochemistry Communications</i> , 2009 , 11, 181-185	5.1	16
56	A catechol biosensor based on a gold nanoparticles encapsulated-dendrimer. <i>Analyst, The</i> , 2011 , 136, 1216-21	5	14
55	Wigner distribution of an optical vortex. <i>Journal of Modern Optics</i> , 2006 , 53, 1803-1808	1.1	14
54	Bio- Nanomaterials For Versatile Bio- Molecules Detection Technology. <i>Advanced Materials Letters</i> , 2010 , 1, 83-84	2.4	14
53	Application of Nanomaterials Toward Development of Nanobiosensors and Their Utility in Agriculture 2017 , 293-303		14
52	Analysis of direct immobilized recombinant protein G on a gold surface. <i>Ultramicroscopy</i> , 2008 , 108, 1152-6	3.6	13
51	Potential applications of peptide nucleic acid in biomedical domain. <i>Engineering Reports</i> , 2020 , 2, e12238	1.2	13
50	Quantitative liquid chromatographic determination of sanguinarine in cell culture medium and in rat urine and plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 799, 195-200	3.2	12
49	Bioinspired triangular ZnO nanoclusters synthesized by nascent leaf extract for the efficient electrochemical determination of vitamin C.. <i>RSC Advances</i> , 2021 , 11, 25752-25763	3.7	12
48	Nano-enabled wearable sensors for the Internet of Things (IoT). <i>Materials Letters</i> , 2021 , 304, 130614	3.3	12
47	Potentialities of core@shell nanomaterials for biosensor technologies. <i>Materials Letters</i> , 2022 , 306, 130912	3.12	12
46	Electrochemical DNA Biosensor For The Detection Of Sanguinarine In Adulterated Mustard Oil. <i>Advanced Materials Letters</i> , 2010 , 1, 48-54	2.4	11
45	Generating a perfect quantum optical vortex. <i>Physical Review A</i> , 2016 , 94,	2.6	10
44	Entanglement propagation of a quantum optical vortex state. <i>Optics Communications</i> , 2016 , 380, 492-498		10
43	Direct immobilization of cupredoxin azurin modified by site-directed mutagenesis on gold surface. <i>Ultramicroscopy</i> , 2008 , 108, 1390-5	3.1	9
42	Evaluation of dermal irritancy potential of benzanthrone-derived dye analogs: structure activity relationship. <i>Skin Pharmacology and Physiology</i> , 2000 , 13, 165-73	3	9
41	Nanobiosensors: Potentiality towards Bioanalysis. <i>Journal of Bioanalysis & Biomedicine</i> , 2016 , 8,	1	9
40	Prospects of Organic Conducting Polymer Modified Electrodes: Enzymosensors. <i>International Journal of Electrochemistry</i> , 2012 , 2012, 1-14	2.4	8

39	Comparative effect of benzanthrone and 3-bromobenzanthrone on hepatic xenobiotic metabolism and anti-oxidative defense system in guinea pigs. <i>Archives of Toxicology</i> , 2003 , 77, 94-9	5.8	8
38	Efficient electro-optical characteristics of bioinspired iron oxide nanoparticles synthesized by Terminalia chebula dried seed extract. <i>Materials Letters</i> , 2022 , 307, 131053	3.3	8
37	Introduction to bionanomaterials: an overview		8
36	Utility of Nanomaterials in Food Safety 2019 , 285-318		7
35	Charge storage investigation in self-assembled monolayer of redox-active recombinant azurin. <i>Current Applied Physics</i> , 2009 , 9, e71-e75	2.6	7
34	Nanofabrication of bio-self assembled monolayer and its electrochemical property for toxicant detection. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 408-12	1.3	7
33	Bionanomaterials for green bionanotechnology		7
32	Melt-quenched vanadium pentoxide-stabilized chitosan nano hybrids for efficient hydrazine detection. <i>Materials Advances</i> ,	3.3	7
31	Smart and emerging nanomaterials-based biosensor for SARS-CoV-2 detection. <i>Materials Letters</i> , 2022 , 307, 131092	3.3	6
30	A simple detection platform based on molecularly imprinted polymer for AFB1 and FuB1 mycotoxins. <i>Microchemical Journal</i> , 2021 , 171, 106730	4.8	6
29	Functional Nanomaterials for Multifarious Nanomedicine 2014 , 141-197		5
28	Biomimetic Materials Toward Application of Nanobiodevices 2012 , 741-781		5
27	Potential of Biogenic Plant-Mediated Copper and Copper Oxide Nanostructured Nanoparticles and Their Utility. <i>Nanotechnology in the Life Sciences</i> , 2019 , 115-176	1.1	5
26	Bionanomaterials		5
25	Utility and Potential Application of Nanomaterials in Medicine 2012 , 215-262		4
24	Potential of Biogenic Plant-Mediated Iron and Iron Oxide Nanoparticles and Their Utility. <i>Nanotechnology in the Life Sciences</i> , 2019 , 77-113	1.1	4
23	Nanomaterials in Bionanotechnology		4
22	Quadrature uncertainty and information entropy of quantum elliptical vortex states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 225303	2	3

21	Nanocomposites: Recent Trends, Developments and Applications 2019 , 16-47		3
20	Trends of bioderived carbonaceous materials for futuristic biomedical applications. <i>Materials Letters</i> , 2022 , 311, 131606	3.3	3
19	Potentialities of nanomaterials for the management and treatment of metabolic syndrome: A new insight. <i>Materials Today Advances</i> , 2022 , 13, 100198	7.4	3
18	Smart Nanomaterials for Biosensors, Biochips and Molecular Bioelectronics 2012 , 3-41		2
17	Introduction to Composite Materials 2021 , 1-28		2
16	Nanobiotechnology in animal production and health 2021 , 185-198		2
15	Internet of things (IoT) in nano-integrated wearable biosensor devices for healthcare applications. <i>Biosensors and Bioelectronics: X</i> , 2022 , 11, 100153	2.9	2
14	Displacement gain dependent fidelity in quantum teleportation using entangled two-mode squeezed light. <i>Optical and Quantum Electronics</i> , 2014 , 46, 1127-1137	2.4	1
13	Recent advancements of biogenic iron nanoparticles in cancer theranostics. <i>Materials Letters</i> , 2022 , 313, 131769	3.3	1
12	Utility of Nanobiosensors in Environmental Analysis and Monitoring. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 229-246	0.8	1
11	Bionanocomposite Matrices in Electrochemical Biosensors 303-321		1
10	Design and synergistic effect of nano-sized epoxy-NiCo ₂ O ₄ nanocomposites for anticorrosion applications. <i>RSC Advances</i> , 2022 , 12, 14888-14901	3.7	0
9	Natural Resources as Flame Retardants for Polyurethanes. <i>ACS Symposium Series</i> , 1-11	0.4	0
8	Smart Nanomaterials for Space and Energy Applications 2012 , 213-249		
7	Mode of Growth Mechanism of Nanocrystal Using Biomolecules 2012 , 625-648		
6	Bio-elimination of conjugated metabolites of 3-bromobenzanthrone in urine of rats and Guinea pigs. <i>Toxicology Mechanisms and Methods</i> , 2004 , 14, 345-54	3.6	
5	A sensitive method of monitoring exposure to 3-bromobenzanthrone in industrial dyestuff workers. <i>Toxicology Mechanisms and Methods</i> , 2002 , 12, 229-37	3.6	
4	Biotechnology in animal nutrition and feed utilization 2022 , 339-369		

- 3 Recent Trends, Prospects, and Challenges of Nanobiosensors in Agriculture. *Concepts and Strategies in Plant Sciences*, **2021**, 3-13 0.5
- 2 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 1.1
- 1 Future aspects of biosensor-based devices in disease detection **2022**, 423-439