

Sadanand Pandey

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

3,768
citations

31
h-index

60
g-index

107
ext. papers

4,918
ext. citations

5.7
avg, IF

6.68
L-index

#	Paper	IF	Citations
93	Green synthesis of biopolymer-silver nanoparticle nanocomposite: an optical sensor for ammonia detection. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 583-9	7.9	238
92	Development of a sodium alginate-based organic/inorganic superabsorbent composite hydrogel for adsorption of methylene blue. <i>Carbohydrate Polymers</i> , 2016 , 153, 34-46	10.3	217
91	Catalytic reduction of p-nitrophenol by using platinum nanoparticles stabilised by guar gum. <i>Carbohydrate Polymers</i> , 2014 , 113, 525-31	10.3	201
90	Organic-inorganic hybrid of chitosan/organoclay bionanocomposites for hexavalent chromium uptake. <i>Journal of Colloid and Interface Science</i> , 2011 , 361, 509-20	9.3	197
89	Sol-gel derived organic/inorganic hybrid materials: synthesis, characterizations and applications. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 59, 73-94	2.3	180
88	A comprehensive review on recent developments in bentonite-based materials used as adsorbents for wastewater treatment. <i>Journal of Molecular Liquids</i> , 2017 , 241, 1091-1113	6	172
87	Highly sensitive and selective chemiresistor gas/vapor sensors based on polyaniline nanocomposite: A comprehensive review. <i>Journal of Science: Advanced Materials and Devices</i> , 2016 , 1, 431-453	4.2	145
86	Green synthesis of polysaccharide/gold nanoparticle nanocomposite: an efficient ammonia sensor. <i>Carbohydrate Polymers</i> , 2013 , 94, 229-34	10.3	125
85	Fast and highly efficient catalytic degradation of dyes using Earrageenan stabilized silver nanoparticles nanocatalyst. <i>Carbohydrate Polymers</i> , 2020 , 230, 115597	10.3	121
84	Au Nanocomposite Based Chemiresistive Ammonia Sensor for Health Monitoring. <i>ACS Sensors</i> , 2016 , 1, 55-62	9.2	111
83	Preparation and characterization of xanthan gum-cl-poly(acrylic acid)/o-MWCNTs hydrogel nanocomposite as highly effective re-usable adsorbent for removal of methylene blue from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 700-714	9.3	111
82	Fast and highly efficient removal of dye from aqueous solution using natural locust bean gum based hydrogels as adsorbent. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 60-75	7.9	107
81	Removal of cadmium from aqueous solutions by adsorption using poly(acrylamide) modified guar gum/silica nanocomposites. <i>Separation and Purification Technology</i> , 2009 , 67, 251-261	8.3	101
80	Nanocomposite based flexible ultrasensitive resistive gas sensor for chemical reactions studies. <i>Scientific Reports</i> , 2013 , 3, 2082	4.9	97
79	Removal of chromium (VI) using poly(methylacrylate) functionalized guar gum. <i>Bioresource Technology</i> , 2009 , 100, 1977-82	11	88
78	Microwave-accelerated Synthesis and Characterization of Potato Starch-g-poly(acrylamide). <i>Starch/Staerke</i> , 2006 , 58, 536-543	2.3	88
77	Facile approach to synthesize chitosan based composite--Characterization and cadmium(II) ion adsorption studies. <i>Carbohydrate Polymers</i> , 2015 , 134, 646-56	10.3	87

76	Peroxydisulfate initiated synthesis of potato starch-graft-poly(acrylonitrile) under microwave irradiation. <i>EXPRESS Polymer Letters</i> , 2007 , 1, 51-58	3.4	81
75	Fast microwave-assisted green synthesis of xanthan gum grafted acrylic acid for enhanced methylene blue dye removal from aqueous solution. <i>Carbohydrate Polymers</i> , 2017 , 176, 315-326	10.3	78
74	Microwave assisted synthesis of xanthan gum-cl-poly (acrylic acid) based-reduced graphene oxide hydrogel composite for adsorption of methylene blue and methyl violet from aqueous solution. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 255-269	7.9	72
73	Sodium alginate stabilized silver nanoparticles-silica nanohybrid and their antibacterial characteristics. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 712-723	7.9	71
72	Graft copolymerization of ethylacrylate onto xanthan gum, using potassium peroxydisulfate as an initiator. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 527-35	7.9	56
71	Sequestration of methylene blue dye using sodium alginate poly(acrylic acid)@ZnO hydrogel nanocomposite: Kinetic, Isotherm, and Thermodynamic Investigations. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 60-73	7.9	48
70	Microwave synthesized xanthan gum-g-poly(ethylacrylate): an efficient Pb ²⁺ ion binder. <i>Carbohydrate Polymers</i> , 2012 , 90, 370-9	10.3	47
69	Rapid, facile microwave-assisted synthesis of xanthan gum grafted polyaniline for chemical sensor. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 89-98	7.9	42
68	Equilibrium, kinetic, and thermodynamic studies of lead ion adsorption from mine wastewater onto MoS ₂ -clinoptilolite composite. <i>Materials Today Chemistry</i> , 2020 , 18, 100376	6.2	39
67	Hydrogen sensing based on nanoporous silica-embedded ultra dense ZnO nanobundles. <i>RSC Advances</i> , 2014 , 4, 7476	3.7	38
66	Microwave-assisted green synthesis of xanthan gum grafted diethylamino ethyl methacrylate: An efficient adsorption of hexavalent chromium. <i>Carbohydrate Polymers</i> , 2019 , 222, 114989	10.3	35
65	Sol-gel derived xanthan gum/silica nanocomposite-a highly efficient cationic dyes adsorbent in aqueous system. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 596-604	7.9	34
64	Synthesis and characterization of novel saponified guar-graft-poly(acrylonitrile)/silica nanocomposite materials. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 536-544	2.9	34
63	Guar gum-grafted poly(acrylonitrile)-templated silica xerogel: nanoengineered material for lead ion removal. <i>Journal of Analytical Science and Technology</i> , 2016 , 7,	3.4	30
62	Sol-gel polycondensation of tetraethoxysilane in ethanol in presence of vinyl modified guar gum: synthesis of novel nanocompositional adsorbent materials. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 58-67	2.3	25
61	Eco Friendly Approach for Synthesis, Characterization and Biological Activities of Milk Protein Stabilized Silver Nanoparticles. <i>Polymers</i> , 2020 , 12,	4.5	24
60	Sol-gel synthesis and characterization of adsorbent and photoluminescent nanocomposites of starch and silica. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 194-201	3.9	23
59	Recent Advances in Nanotechnology-Based Diagnosis and Treatments of Human Osteosarcoma. <i>Biosensors</i> , 2021 , 11,	5.9	22

58	Implication of biofilms in the sustainability of acid mine drainage and metal dispersion near coal tailings. <i>Science of the Total Environment</i> , 2021 , 788, 147851	10.2	21
57	Synthesis and characterization of guar gum templated hybrid nano silica. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 233-40	7.9	20
56	Environmentally Safe Biosynthesis of Gold Nanoparticles Using Plant Water Extracts. <i>Nanomaterials</i> , 2021 , 11,	5.4	20
55	Synthesis, characterization, toxicity and morphology assessments of newly prepared microemulsion systems for delivery of valproic acid. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116625	6	20
54	Multi-Functionalized Nanomaterials and Nanoparticles for Diagnosis and Treatment of Retinoblastoma. <i>Biosensors</i> , 2021 , 11,	5.9	19
53	Nanotechnology in Bladder Cancer: Diagnosis and Treatment. <i>Cancers</i> , 2021 , 13,	6.6	19
52	Chromatographic resolution of racemic amino acids: chiral stationary phase derived from modified xanthan gum. <i>Carbohydrate Polymers</i> , 2013 , 92, 2201-5	10.3	18
51	Turning to Nanotechnology for Water Pollution Control: Applications of Nanocomposites. <i>Focus on Sciences</i> , 2016 , 2, 1-10		18
50	Recent Modifications of bentonite Clay for Adsorption Applications. <i>Focus on Sciences</i> , 2016 , 2, 1-10		18
49	Achieving a long-term stability by self-redox property between Fe and Mn ions in the iron-manganese spinel structured electrode in oxygen evolution reaction. <i>Applied Surface Science</i> , 2021 , 546, 149124	6.7	16
48	A Hyaluronic Acid Functionalized Self-Nano-Emulsifying Drug Delivery System (SNEDDS) for Enhancement in Ciprofloxacin Targeted Delivery against Intracellular Infection. <i>Nanomaterials</i> , 2021 , 11,	5.4	15
47	DNA Based and Stimuli-Responsive Smart Nanocarrier for Diagnosis and Treatment of Cancer: Applications and Challenges. <i>Cancers</i> , 2021 , 13,	6.6	15
46	Glutaraldehyde-cross-linked chitosan-alginate composite for organic dyes removal from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2021 , 190, 862-875	7.9	14
45	Cassia Grandis Seed Gum-graft-poly(acrylamide)-silica Hybrid: An Excellent Cadmium (II) Adsorbent. <i>Advanced Materials Letters</i> , 2015 , 6, 19-26	2.4	13
44	Manganese-Doped Zinc Oxide Nanostructures as Potential Scaffold for Photocatalytic and Fluorescence Sensing Applications. <i>Chemosensors</i> , 2020 , 8, 120	4	13
43	Recent Advancement in Visible-Light-Responsive Photocatalysts in Heterogeneous Photocatalytic Water Treatment Technology 2020 , 167-196		12
42	Adsorption Behavior of Potato Starch-silica Nanobiocomposite. <i>Advanced Materials Letters</i> , 2010 , 1, 40-47	4.4	12
41	Green synthesis of magnetic Fe ₂ O ₃ nanospheres using <i>Bridelia retusa</i> leaf extract for Fenton-like degradation of crystal violet dye. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 2227-2234	3.3	12

40	Pluronic F127/Doxorubicin microemulsions: Preparation, characterization, and toxicity evaluations. <i>Journal of Molecular Liquids</i> , 2021 , 345, 117028	6	12
39	Amino Acids, Peptides, and Proteins: Implications for Nanotechnological Applications in Biosensing and Drug/Gene Delivery. <i>Nanomaterials</i> , 2021 , 11,	5.4	11
38	Nanotechnology-based approaches for effective detection of tumor markers: A comprehensive state-of-the-art review.. <i>International Journal of Biological Macromolecules</i> , 2021 , 195, 356-383	7.9	11
37	Simulation, In Vitro, and In Vivo Cytotoxicity Assessments of Methotrexate-Loaded pH-Responsive Nanocarriers. <i>Polymers</i> , 2021 , 13,	4.5	10
36	Design of Mannose-Coated Rifampicin nanoparticles modulating the immune response and Rifampicin induced hepatotoxicity with improved oral drug delivery. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103321	5.9	9
35	Biopolymer starch-gelatin embedded with silver nanoparticleBased hydrogel composites for antibacterial application. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	8
34	Preparation of highly crystalline quaternary heterostructure catalyst for hydrogen evolution under solar light: Improved photoexcited charge separation. <i>Materials Research Bulletin</i> , 2020 , 122, 110695	5.1	8
33	Nanomaterials for the Diagnosis and Treatment of Head and Neck Cancers: A Review. <i>Materials</i> , 2021 , 14,	3.5	8
32	Emerging remediation potentiality of struvite developed from municipal wastewater for the treatment of acid mine drainage.. <i>Environmental Research</i> , 2022 , 210, 112944	7.9	8
31	Nb ₂ O ₅ /SnS ₂ heteronanostructures as efficient visible-light-harvesting materials for production of H ₂ under solar light irradiation. <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155399	5.7	7
30	Nanomaterial-based biosorbents: Adsorbent for efficient removal of selected organic pollutants from industrial wastewater. <i>Emerging Contaminants</i> , 2022 , 8, 46-58	5.8	7
29	Alumina-supported microwave synthesis of Cassia marginata seed gum-graft-polyacrylamide. <i>Journal of Applied Polymer Science</i> , 2010 , 117, n/a-n/a	2.9	6
28	Novel Perspectives towards RNA-Based Nano-Theranostic Approaches for Cancer Management.. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
27	Applications of lignin nanoparticles for cancer drug delivery: An update. <i>Materials Letters</i> , 2022 , 311, 131573	3.3	6
26	Mesoporous Fe ^{III} -doped cellulose for the efficient removal of reactive dyes. <i>Materials Advances</i> , 2022 , 3, 3278-3285	3.3	6
25	Response of Bacterial Biosorbents to Chemical Treatment as Influenced by Cell Membrane Structure and Impact on the Adsorption Behaviour of Dyes. <i>Current Science</i> , 2018 , 114, 826	2.2	5
24	F127/Cisplatin Microemulsions: In Vitro, In Vivo and Computational Studies. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3006	2.6	5
23	Theranostic Advances of Bionanomaterials against Gestational Diabetes Mellitus: A Preliminary Review. <i>Journal of Functional Biomaterials</i> , 2021 , 12,	4.8	5

22	Synthesis of gum acacia-silver nanoparticles based hydrogel composites and their comparative anti-bacterial activity. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	5
21	A Green Approach for the Synthesis of Silver Nanoparticle-Embedded Chitosan Bionanocomposite as a Potential Device for the Sustained Release of the Itraconazole Drug and Its Antibacterial Characteristics.. <i>Polymers</i> , 2022 , 14,	4.5	5
20	Chemical Nanosensors for Monitoring Environmental Pollution 2014 , 309-332		4
19	Highly efficient hydrogen evolution reaction performance and long-term stability of spherical Ni ₁₀₀ Fe alloy grown directly on a carbon paper electrode. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159265	5.7	4
18	Carbon Nanotubes in the 21st Century: An Advancement in Real Time Monitoring and Control of Environmental Water 2019 , 265-301		3
17	Active Targeted Nanoparticles for Delivery of Poly(ADP-ribose) Polymerase (PARP) Inhibitors: A Preliminary Review. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
16	Bioceramics: Silica-Based Organic-Inorganic Hybrid Materials for Medical Applications 135-161		3
15	Low power consumption pressure sensor based on carbon nanotubes 2018 ,		2
14	Synthesis, In Silico Study, and Anti-Cancer Activity of Thiosemicarbazone Derivatives. <i>Biomedicines</i> , 2021 , 9,	4.8	2
13	Potential and future prospects of biochar-based materials and their applications in removal of organic contaminants from industrial wastewater. <i>Journal of Material Cycles and Waste Management</i> , 1	3.4	2
12	Opportunities and challenges of using high-sensitivity nanobiosensors to detect long noncoding RNAs: A preliminary review.. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	2
11	Chitosan nanocarriers for microRNA delivery and detection: A preliminary review with emphasis on cancer.. <i>Carbohydrate Polymers</i> , 2022 , 290, 119489	10.3	2
10	Plasmon-Induced Hot Electron Amplification and Effective Charge Separation by Au Nanoparticles Sandwiched between Copper Titanium Phosphate Nanosheets and Improved Carbon Dioxide Conversion to Methane. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18646-18660	8.3	1
9	Amorphous Porous Mixed Oxides: A New and Highly Versatile Class of Materials 2012 , 149-181		1
8	Reduction of carcinogenic PAHs from petrodiesel engine exhaust by blending of green diesel (A new development in renewable fuels) with different biodiesel fuels. <i>Environmental Technology and Innovation</i> , 2021 , 25, 102089	7	1
7	Development of mucoadhesive thiomeric chitosan nanoparticles for the targeted ocular delivery of vancomycin against Staphylococcus aureus resistant strains. <i>Nanofabrication</i> , 2021 , 6, 16-24	4	1
6	Potassium-induced partial inhibition of lactoperoxidase: structure of the complex of lactoperoxidase with potassium ion at 2.20Å resolution. <i>Journal of Biological Inorganic Chemistry</i> , 2021 , 26, 149-159	3.7	1
5	Can nanomaterials support the diagnosis and treatment of human infertility? A preliminary review.. <i>Life Sciences</i> , 2022 , 299, 120539	6.8	1

4	Fabrication of solar-driven hierarchical ZnIn ₂ S ₄ /rGO/SnS ₂ heterojunction photocatalyst for hydrogen generation and environmental pollutant elimination. <i>Separation and Purification Technology</i> , 2022 , 121119	8.3	1
3	Recent Advances in Metal Nanoparticles for the Synthesis of N-Containing Heterocyclic Compounds. <i>Asian Journal of Chemistry</i> , 2021 , 33, 949-955	0.4	0
2	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
1	Sequestration of Organic Dyes from Wastewater Using Hydrogel Nanocomposites. <i>Springer Series in Materials Science</i> , 2022 , 201-223	0.9	