

Vanish Kumar

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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.

75
papers

2,641
citations

31
h-index

50
g-index

80
ext. papers

3,639
ext. citations

9
avg, IF

6.07
L-index

#	Paper	IF	Citations
75	Production of bioplastic through food waste valorization. <i>Environment International</i> , 2019 , 127, 625-644	12.9	200
74	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. <i>Environment International</i> , 2018 , 119, 1-19	12.9	143
73	Biogenic synthesis of copper oxide nanoparticles using plant extract and its prodigious potential for photocatalytic degradation of dyes. <i>Environmental Research</i> , 2019 , 177, 108569	7.9	134
72	A review of the applications of Schiff bases as optical chemical sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 116, 74-91	14.6	132
71	Metal-organic frameworks (MOFs): potential and challenges for capture and abatement of ammonia. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22877-22896	13	112
70	Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 205-222	11.8	112
69	Environmental impacts of nanomaterials. <i>Journal of Environmental Management</i> , 2018 , 225, 261-271	7.9	97
68	Photocatalytic degradation of bisphenol A in aqueous media: A review. <i>Journal of Environmental Management</i> , 2018 , 213, 189-205	7.9	95
67	Graphene quantum dots FRET based sensor for early detection of heart attack in human. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 495-9	11.8	86
66	Graphene and its nanocomposites as a platform for environmental applications. <i>Chemical Engineering Journal</i> , 2017 , 315, 210-232	14.7	79
65	Role of gold nanoparticles in advanced biomedical applications. <i>Nanoscale Advances</i> , 2020 , 2, 3764-3787	5.1	68
64	Photocatalytic degradation performance of various types of modified TiO ₂ against nitrophenols in aqueous systems. <i>Journal of Cleaner Production</i> , 2019 , 231, 899-912	10.3	66
63	A review of functional sorbents for adsorptive removal of arsenic ions in aqueous systems. <i>Journal of Hazardous Materials</i> , 2020 , 388, 121815	12.8	58
62	Biomolecule-embedded metal-organic frameworks as an innovative sensing platform. <i>Biotechnology Advances</i> , 2018 , 36, 467-481	17.8	56
61	Metal-organic framework (MOF)-based advanced sensing platforms for the detection of hydrogen sulfide. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 263-281	14.6	53
60	Functional hybrid nanostructure materials: Advanced strategies for sensing applications toward volatile organic compounds. <i>Coordination Chemistry Reviews</i> , 2017 , 342, 80-105	23.2	50
59	Nanomaterials-based treatment options for chromium in aqueous environments. <i>Environment International</i> , 2019 , 130, 104748	12.9	49

58	Identifying the best materials for the removal of airborne toluene based on performance metrics - A critical review. <i>Journal of Cleaner Production</i> , 2019 , 241, 118408	10.3	44
57	Nanomaterial-based immunosensors for ultrasensitive detection of pesticides/herbicides: Current status and perspectives. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112382	11.8	42
56	Potential applications of graphene-based nanomaterials as adsorbent for removal of volatile organic compounds. <i>Environment International</i> , 2020 , 135, 105356	12.9	41
55	Highly stable AgNPs prepared via a novel green approach for catalytic and photocatalytic removal of biological and non-biological pollutants. <i>Environment International</i> , 2020 , 143, 105924	12.9	41
54	Graphene materials as a superior platform for advanced sensing strategies against gaseous ammonia. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22391-22410	13	39
53	Enhanced antibacterial profile of nanoparticle impregnated cellulose foam filter paper for drinking water filtration. <i>Carbohydrate Polymers</i> , 2018 , 202, 219-226	10.3	39
52	Nanomaterials for the abatement of cadmium (II) ions from water/wastewater. <i>Nano Research</i> , 2019 , 12, 1489-1507	10	38
51	Amperometric sensing of urea using edge activated graphene nanoplatelets. <i>RSC Advances</i> , 2015 , 5, 13278-13284	3.7	38
50	The effect of manganese doping on structural, optical, and photocatalytic activity of zinc oxide nanoparticles. <i>Composites Part B: Engineering</i> , 2019 , 166, 361-370	10	38
49	Biogenic synthesis of silver nanoparticles and its photocatalytic applications for removal of organic pollutants in water. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 247-257	6.3	37
48	Adsorptive removal of an eight-component volatile organic compound mixture by Cu-, Co-, and Zr-metal-organic frameworks: Experimental and theoretical studies. <i>Chemical Engineering Journal</i> , 2020 , 397, 125391	14.7	36
47	Critical role of water stability in metal-organic frameworks and advanced modification strategies for the extension of their applicability. <i>Environmental Science: Nano</i> , 2020 , 7, 1319-1347	7.1	36
46	Mechanical properties of aluminium-graphene/carbon nanotubes (CNTs) metal matrix composites: Advancement, opportunities and perspective. <i>Materials Research Bulletin</i> , 2021 , 138, 111224	5.1	32
45	Graphene nanoplatelet/graphitized nanodiamond-based nanocomposite for mediator-free electrochemical sensing of urea. <i>Food Chemistry</i> , 2020 , 303, 125375	8.5	32
44	Advances in electrospun nanofiber fabrication for polyaniline (PANI)-based chemoresistive sensors for gaseous ammonia. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 129, 115938	14.6	30
43	Recent advances in carbon nanotube sponge-based sorption technologies for mitigation of marine oil spills. <i>Journal of Colloid and Interface Science</i> , 2020 , 570, 411-422	9.3	30
42	Nanomaterials for the sensing of narcotics: Challenges and opportunities. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 106, 84-115	14.6	30
41	Simple and Mediator-Free Urea Sensing Based on Engineered Nanodiamonds with Polyaniline Nanofibers Synthesized in Situ. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16813-16823	9.5	29

40	Metal organic frameworks as potent treatment media for odorants and volatiles in air. <i>Environmental Research</i> , 2019 , 168, 336-356	7.9	29
39	Experimental and theoretical studies of various solar control window glasses for the reduction of cooling and heating loads in buildings across different climatic regions. <i>Energy and Buildings</i> , 2018 , 173, 326-336	7	29
38	Advanced Functional Structure-Based Sensing and Imaging Strategies for Cancer Detection: Possibilities, Opportunities, Challenges, and Prospects. <i>Advanced Functional Materials</i> , 2019 , 29, 1807859	15.6	27
37	Advances in In ₂ O ₃ -based materials for the development of hydrogen sulfide sensors. <i>Chemical Engineering Journal</i> , 2021 , 404, 126472	14.7	26
36	Advances in thermocatalytic and photocatalytic techniques for the room/low temperature oxidative removal of formaldehyde in air. <i>Chemical Engineering Journal</i> , 2020 , 399, 125759	14.7	23
35	A critical review on the metal sensing capabilities of optically active nanomaterials: Limiting factors, mechanism, and performance evaluation. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 109, 227-246	14.6	23
34	Metal-organic frameworks for photocatalytic detoxification of chromium and uranium in water. <i>Coordination Chemistry Reviews</i> , 2021 , 447, 214148	23.2	23
33	Aspects of Point-of-Care Diagnostics for Personalized Health Wellness. <i>International Journal of Nanomedicine</i> , 2021 , 16, 383-402	7.3	23
32	Nanofibers synthesis of ND:PANI composite by liquid/liquid interfacial polymerization and study on the effect of NDs on growth mechanism of nanofibers. <i>European Polymer Journal</i> , 2016 , 83, 1-9	5.2	21
31	Recent Advances in Nanomaterial-Based Human Breath Analytical Technology for Clinical Diagnosis and the Way Forward. <i>Chem</i> , 2019 , 5, 3020-3057	16.2	19
30	Fabrication of ultrathin, free-standing, transparent and conductive graphene/multiwalled carbon nanotube film with superior optoelectronic properties. <i>Thin Solid Films</i> , 2015 , 595, 193-199	2.2	18
29	Utilization of metal-organic frameworks for the adsorptive removal of an aliphatic aldehyde mixture in the gas phase. <i>Nanoscale</i> , 2020 , 12, 8330-8343	7.7	16
28	Recent progress in nanomaterial-based sensing of airborne viral and bacterial pathogens. <i>Environment International</i> , 2021 , 146, 106183	12.9	15
27	Use of graphene-based structures as platforms for the trace-level detection of gaseous formaldehyde and insights into their superior sensing potentials. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 121, 115694	14.6	11
26	Recent advances and opportunities in the treatment of hydrocarbons and oils: Metal-organic frameworks-based approaches. <i>Critical Reviews in Environmental Science and Technology</i> , 2019 , 49, 587-654	11.1	9
25	Nanotwinning: Generation, properties, and application. <i>Materials and Design</i> , 2020 , 192, 108752	8.1	9
24	Eco-Toxicological and Kinetic Evaluation of TiO ₂ and ZnO Nanophotocatalysts in Degradation of Organic Dye. <i>Catalysts</i> , 2019 , 9, 871	4	9
23	Experimental and Computational Study on the Selective Interaction of Functionalized Gold Nanoparticles with Metal Ions: Sensing Prospects. <i>Langmuir</i> , 2020 , 36, 12319-12326	4	8

22	Recent advances in nanoscale materials for antibody-based cancer theranostics. <i>Biosensors and Bioelectronics</i> , 2020 , 173, 112787	11.8	6
21	Nano Electronics: A New Era of Devices. <i>Solid State Phenomena</i> , 2014 , 222, 99-116	0.4	5
20	Conducting Polymer Nanofibers based Sensors for Organic and Inorganic Gaseous Compounds. <i>Asian Journal of Atmospheric Environment</i> , 2020 , 14, 85-104	1.3	5
19	Progress, prospects, and challenges in standardization of sampling and analysis of micro- and nano-plastics in the environment. <i>Journal of Cleaner Production</i> , 2021 , 325, 129321	10.3	5
18	Nanomaterial-based aptasensors as an efficient substitute for cardiovascular disease diagnosis: Future of smart biosensors. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113617	11.8	5
17	Hydrothermal Synthesis of Cu-ZnO-/TiO ₂ -Based Engineered Nanomaterials for the Efficient Removal of Organic Pollutants and Bacteria from Water. <i>BioNanoScience</i> , 2017 , 7, 574-582	3.4	4
16	Extraction of low-toxicity nanodiamonds from carbonaceous wastes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016 , 24, 190-194	1.8	3
15	Carbon Nanotubes as Drug Delivery Vehicles. <i>Solid State Phenomena</i> , 2014 , 222, 145-158	0.4	3
14	Use of molecular imprinted polymers as sensitive/selective luminescent sensing probes for pesticides/herbicides in water and food samples.. <i>Environmental Pollution</i> , 2022 , 299, 118824	9.3	3
13	Facile and efficient colorimetric detection of cadmium ions in aqueous systems using green-synthesized gold nanoparticles. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	2
12	Effect of carbonaceous nanomaterials reinforcement on mechanical properties of aluminium metal-based nanocomposite: A review. <i>Materials Today: Proceedings</i> , 2021 , 38, 289-295	1.4	2
11	Influence of Fe(III) on the Fluorescence of Lysozyme: a Facile and Direct Method for Sensitive and Selective Sensing of Fe(III). <i>Journal of Fluorescence</i> , 2021 , 31, 1815-1821	2.4	2
10	Recent progress on hollow porous molecular imprinted polymers as sorbents of environmental samples. <i>Microchemical Journal</i> , 2021 , 171, 106848	4.8	2
9	Mixed metal (cobalt/molybdenum) based metal-organic frameworks for highly sensitive and specific sensing of arsenic (V): Spectroscopic versus paper-based approaches. <i>Chemical Engineering Journal</i> , 2021 , 426, 131243	14.7	2
8	Aluminium-Carbon Fibre Metal Matrix Composites: A Review. <i>IOP Conference Series: Materials Science and Engineering</i> , 1033 , 012057	0.4	2
7	A Novel Approach for Effective Alteration of Morphological Features of Polyaniline through Interfacial Polymerization for Versatile Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
6	Production and characterization of microalgal exopolysaccharide as a reducing and stabilizing agent for green synthesis of gold-nanoparticle: a case study with a <i>Chlorella</i> sp. from Himalayan high-altitude psychrophilic habitat. <i>Journal of Applied Phycology</i> , 1	3.2	1
5	Graphitic carbon nitride composites as electro catalysts: Applications in energy conversion/storage and sensing system. <i>Journal of Cleaner Production</i> , 2021 , 320, 128693	10.3	1

- 4 Substantial enhancement in the photocatalytic degradation of organic/inorganic pollutants in water and photoelectrochemical activity using TiO₂@Ag@LaFeO₃ core-shell nanorods. *New Journal of Chemistry*, **2022**, 46, 5321-5331 3.6 0
- 3 Development of Metal Nanoparticles Based Sensing Platform for Lead in Aqueous Samples. *Materials Proceedings*, **2021**, 4, 61 0.3
- 2 Nanomaterials-Based Immunosensors in Food Analysis **2022**, 259-318
- 1 Trends in advanced materials for sustainable environmental remediation **2022**, 1-29