Amit Kumar

List of Publications by Year
in descending order

247	13,369	18482 62	29157 104
papers	citations	h-index	g-index

262	262	262	12409
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel development of nanoparticles to bimetallic nanoparticles and their composites: A review. Journal of King Saud University - Science, 2019, 31, 257-269.	3.5	431
2	The ins and outs of microorganismâ€“electrode electron transfer reactions. Nature Reviews Chemistry, 2017, 1, .	30.2	385
3	Quaternary magnetic BiOCl/g-C3N4/Cu2O/Fe3O4 nano-junction for visible light and solar powered degradation of sulfamethoxazole from aqueous environment. Chemical Engineering Journal, 2018, 334, 462-478.	12.7	311
4	Guar gum and its composites as potential materials for diverse applications: A review. Carbohydrate Polymers, 2018, 199, 534-545.	10.2	283
5	<scp>DNA</scp> barcoding: an efficient tool to overcome authentication challenges in the herbal market. Plant Biotechnology Journal, 2016, 14, 8-21.	8.3	255
6	Construction of dual Z-scheme g-C3N4/Bi4Ti3O12/Bi4O5I2 heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via Iâ^'/I3â^' and Bi3+/Bi5+ redox mediators. Applied Catalysis B: Environmental, 2021, 284, 119808.	20.2	252
7	Biochar-templated g-C3N4/Bi2O2CO3/CoFe2O4 nano-assembly for visible and solar assisted photo-degradation of paraquat, nitrophenol reduction and CO2 conversion. Chemical Engineering Journal, 2018, 339, 393-410.	12.7	241
8	Magnetic polymer nanocomposites for environmental and biomedical applications. Colloid and Polymer Science, 2014, 292, 2025-2052.	2.1	228
9	Sustainable nano-hybrids of magnetic biochar supported g-C 3 N 4 /FeVO 4 for solar powered degradation of noxious pollutants- Synergism of adsorption, photocatalysis & photo-ozonation. Journal of Cleaner Production, 2017, 165, 431-451.	9.3	219
10	Fabrication and characterization of chitosan-crosslinked-poly(alginic acid) nanohydrogel for adsorptive removal of Cr(VI) metal ion from aqueous medium. International Journal of Biological Macromolecules, 2017, 95, 484-493.	7.5	217
11	Applications of nanocomposite hydrogels for biomedical engineering and environmental protection. Environmental Chemistry Letters, 2018, 16, 113-146.	16.2	207
12	Bio-inspired and biomaterials-based hybrid photocatalysts for environmental detoxification: A review. Chemical Engineering Journal, 2020, 382, 122937.	12.7	201
13	Photocatalytic degradation of highly toxic dyes using chitosan-g-poly(acrylamide)/ZnS in presence of solar irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 329, 61-68.	3.9	196
14	Revolution from monometallic to trimetallic nanoparticle composites, various synthesis methods and their applications: A review. Materials Science and Engineering C, 2017, 71, 1216-1230.	7.3	195
15	Wide spectral degradation of Norfloxacin by Ag@BiPO4/BiOBr/BiFeO3 nano-assembly: Elucidating the photocatalytic mechanism under different light sources. Journal of Hazardous Materials, 2019, 364, 429-440.	12.4	193
16	Efficient removal of coomassie brilliant blue R-250 dye using starch/poly(alginic acid-cl-acrylamide) nanohydrogel. Chemical Engineering Research and Design, 2017, 109, 301-310.	5.6	183
17	Fabrication and characterization of Gum arabic-cl-poly(acrylamide) nanohydrogel for effective adsorption of crystal violet dye. Carbohydrate Polymers, 2018, 202, 444-453.	10.2	174
18	Solar photocatalytic activity of nano-ZnO supported on activated carbon or brick grain particles: Role of adsorption in dye degradation. Applied Catalysis A: General, 2014, 486, 159-169.	4.3	164

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19	Two analytical methods for time-fractional nonlinear coupled Boussinesqâ€“Burgerâ€™s equations arise in propagation of shallow water waves. Nonlinear Dynamics, 2016, 85, 699-715.	5.2	164
20	Facile hetero-assembly of superparamagnetic Fe3O4/BiVO4 stacked on biochar for solar photo-degradation of methyl paraben and pesticide removal from soil. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 337, 118-131.	3.9	158
21	Nano Fe x Zn 1â^'x O as a tuneable and efficient photocatalyst for solar powered degradation of bisphenol A from aqueous environment. Journal of Cleaner Production, 2017, 165, 1542-1556.	9.3	157
22	Integrated bioprocess for conversion of gaseous substrates to liquids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3773-3778.	7.1	156
23	Highly efficient Sr/Ce/activated carbon bimetallic nanocomposite for photoinduced degradation of rhodamine B. Catalysis Today, 2019, 335, 437-451.	4.4	155
24	Fabrication and characterization of novel Fe0@Guar gum-crosslinked-soya lecithin nanocomposite hydrogel for photocatalytic degradation of methyl violet dye. Separation and Purification Technology, 2019, 211, 895-908.	7.9	152
25	Photoremediation of toxic dye from aqueous environment using monometallic and bimetallic quantum dots based nanocomposites. Journal of Cleaner Production, 2018, 172, 2919-2930.	9.3	140
26	High-Performance Photocatalytic Hydrogen Production and Degradation of Levofloxacin by Wide Spectrum-Responsive Ag/Fe₃O₄ Bridged SrTiO₃/g-C₃N₄ Plasmonic Nanojunctions: Joint Effect of Ag and Fe₃O₄. ACS Applied Materials & Interfaces, 2018, 10, 40474-40490.	8.0	140
27	SPION/Î²-cyclodextrin coreâ€“shell nanostructures for oil spill remediation and organic pollutant removal from waste water. Chemical Engineering Journal, 2015, 280, 175-187.	12.7	137
28	Removal of malachite green and methylene blue by Fe0.01Ni0.01Zn0.98O/polyacrylamide nanocomposite using coupled adsorption and photocatalysis. Applied Catalysis B: Environmental, 2014, 147, 340-352.	20.2	135
29	Impact of heavy metals and nanoparticles on aquatic biota. Environmental Chemistry Letters, 2018, 16, 919-946.	16.2	127
30	Highly visible active Ag2CrO4/Ag/BiFeO3@RGO nano-junction for photoreduction of CO2 and photocatalytic removal of ciprofloxacin and bromate ions: The triggering effect of Ag and RGO. Chemical Engineering Journal, 2019, 370, 148-165.	12.7	126
31	Recent advances in nano-Fenton catalytic degradation of emerging pharmaceutical contaminants. Journal of Molecular Liquids, 2019, 290, 111177.	4.9	120
32	Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic. Journal of Molecular Liquids, 2018, 260, 342-350.	4.9	119
33	Biodegradable and conducting hydrogels based on Guar gum polysaccharide for antibacterial and dye removal applications. Journal of Environmental Management, 2015, 162, 37-45.	7.8	117
34	Magnetically recoverable ZrO₂/Fe₃O₄/chitosan nanomaterials for enhanced sunlight driven photoreduction of carcinogenic Cr(<scp>vi</scp>) and dechlorination & mineralization of 4-chlorophenol from simulated waste water. RSC Advances, 2016, 6, 13251-13263.	3.6	115
35	Fe3O4/ZnO/Si3N4 nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. Materials Letters, 2020, 278, 128359.	2.6	115
36	Polyacrylamide/Ni_{0.02}Zn_{0.98}O Nanocomposite with High Solar Light Photocatalytic Activity and Efficient Adsorption Capacity for Toxic Dye Removal. Industrial & Engineering Chemistry Research, 2014, 53, 15549-15560.	3.7	113

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37	Efficient removal of toxic phosphate anions from aqueous environment using pectin based quaternary amino anion exchanger. International Journal of Biological Macromolecules, 2018, 106, 1-10.	7.5	112
38	Polyacrylamide@Zr(IV) vanadophosphate nanocomposite: Ion exchange properties, antibacterial activity, and photocatalytic behavior. Journal of Industrial and Engineering Chemistry, 2016, 33, 201-208.	5.8	102
39	Adsorptional-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2021, 416, 125714.	12.4	102
40	ZnSe-WO3 nano-hetero-assembly stacked on Gum ghatti for photo-degradative removal of Bisphenol A: Symbiose of adsorption and photocatalysis. International Journal of Biological Macromolecules, 2017, 104, 1172-1184.	7.5	101
41	Microwave assisted fabrication of La/Cu/Zr/carbon dots trimetallic nanocomposites with their adsorptional vs photocatalytic efficiency for remediation of persistent organic pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 347, 235-243.	3.9	100
42	Guar gum-crosslinked-Soya lecithin nanohydrogel sheets as effective adsorbent for the removal of thiophanate methyl fungicide. International Journal of Biological Macromolecules, 2018, 114, 295-305.	7.5	100
43	Visible photodegradation of ibuprofen and 2,4-D in simulated waste water using sustainable metal free-hybrids based on carbon nitride and biochar. Journal of Environmental Management, 2019, 231, 1164-1175.	7.8	100
44	CeO2/g-C3N4/V2O5 ternary nano hetero-structures decorated with CQDs for enhanced photo-reduction capabilities under different light sources: Dual Z-scheme mechanism. Journal of Alloys and Compounds, 2020, 838, 155692.	5.5	96
45	Silicate glass matrix@Cu2O/Cu2V2O7 p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. Journal of Hazardous Materials, 2021, 402, 123790.	12.4	95
46	Sodium Hydroxide Production from Seawater Desalination Brine: Process Design and Energy Efficiency. Environmental Science & Technology, 2018, 52, 5949-5958.	10.0	94
47	Magnetic Cellulose Nanocrystal Based Anisotropic Polylactic Acid Nanocomposite Films: Influence on Electrical, Magnetic, Thermal, and Mechanical Properties. ACS Applied Materials & Interfaces, 2016, 8, 18393-18409.	8.0	93
48	Facile synthesis of mesoporous NiFe 2 O 4 /CNTs nanocomposite cathode material for high performance asymmetric pseudocapacitors. Applied Surface Science, 2018, 433, 1100-1112.	6.1	92
49	Lithium Recovery from Oil and Gas Produced Water: A Need for a Growing Energy Industry. ACS Energy Letters, 2019, 4, 1471-1474.	17.4	92
50	Fabrication and characterization of Fe@MoPO nanoparticles: Ion exchange behavior and photocatalytic activity against malachite green. Journal of Molecular Liquids, 2016, 219, 1137-1143.	4.9	90
51	Solar-driven photodegradation of 17-Î²-estradiol and ciprofloxacin from waste water and CO₂ conversion using sustainable coal-char/polymeric-g-C₃N₄/RGO metal-free nano-hybrids. New Journal of Chemistry, 2017, 41, 10208-10224.	2.8	90
52	Molecular Basis of Enrofloxacin Translocation through OmpF, an Outer Membrane Channel of Escherichia coli - When Binding Does Not Imply Translocation. Journal of Physical Chemistry B, 2010, 114, 5170-5179.	2.6	88
53	Rapid visible and solar photocatalytic Cr(VI) reduction and electrochemical sensing of dopamine using solution combustion synthesized ZnOâ€“Fe2O3 nano heterojunctions: Mechanism Elucidation. Ceramics International, 2020, 46, 12255-12268.	4.8	87
54	Solar-Fenton removal of malachite green with novel Fe0-activated carbon nanocomposite. Applied Catalysis A: General, 2014, 476, 9-18.	4.3	81

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55	Fabrication and characterization of sodium dodecyl sulphate@ironsilicophosphate nanocomposite: Ion exchange properties and selectivity for binary metal ions. Materials Chemistry and Physics, 2017, 193, 129-139.	4.0	79
56	Utilization of Desalination Brine for Sodium Hydroxide Production: Technologies, Engineering Principles, Recovery Limits, and Future Directions. ACS Sustainable Chemistry and Engineering, 2017, 5, 11147-11162.	6.7	79
57	Pectin-c rosslinked -guar gum/SPION nanocomposite hydrogel for adsorption of m-cresol and o-chlorophenol. Sustainable Chemistry and Pharmacy, 2017, 6, 96-106.	3.3	78
58	Efficiency of ISSR and RAPD markers in genetic divergence analysis and conservation management of Justicia adhatoda L., a medicinal plant. Plant Systematics and Evolution, 2014, 300, 1409-1420.	0.9	76
59	Atrazine removal using chitin-cl-poly(acrylamide-co-itaconic acid) nanohydrogel: Isotherms and pH responsive nature. Carbohydrate Polymers, 2020, 241, 116258.	10.2	74
60	Zero valent iron-brick grain nanocomposite for enhanced solar-Fenton removal of malachite green. Separation and Purification Technology, 2014, 133, 429-437.	7.9	70
61	Lanthanum/Cadmium/Polyaniline bimetallic nanocomposite for the photodegradation of organic pollutant. Iranian Polymer Journal (English Edition), 2015, 24, 1003-1013.	2.4	70
62	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye. Nanotechnology for Environmental Engineering, 2017, 2, 1.	3.3	70
63	ZnO-based heterostructures as photocatalysts for hydrogen generation and depollution: a review. Environmental Chemistry Letters, 2022, 20, 1047-1081.	16.2	68
64	Direct electrosynthesis of sodium hydroxide and hydrochloric acid from brine streams. Nature Catalysis, 2019, 2, 106-113.	34.4	65
65	Adsorptional removal of methylene blue by guar gumâ€“cerium (IV) tungstate hybrid cationic exchanger. Carbohydrate Polymers, 2014, 101, 684-691.	10.2	64
66	Assessment of landslide hazards induced by extreme rainfall event in Jammu and Kashmir Himalaya, northwest India. Geomorphology, 2017, 284, 72-87.	2.6	64
67	Synthesis and characterization of a new nanocomposite cation exchanger polyacrylamide Ce(IV) silicophosphate: Photocatalytic and antimicrobial applications. Journal of Industrial and Engineering Chemistry, 2014, 20, 3596-3603.	5.8	63
68	Fabrication of nanocomposite polyaniline zirconium(IV) silicophosphate for photocatalytic and antimicrobial activity. Journal of Alloys and Compounds, 2014, 588, 668-675.	5.5	62
69	Combined sorptionalâ€“photocatalytic remediation of dyes by polyaniline Zr(IV) selenotungstophosphate nanocomposite. Toxicological and Environmental Chemistry, 2015, 97, 526-537.	1.2	62
70	Algal biochar reinforced trimetallic nanocomposite as adsorptional/photocatalyst for remediation of malachite green from aqueous medium. Journal of Molecular Liquids, 2019, 275, 499-509.	4.9	62
71	Twoâ€Ðimensional Layered Materials as Catalyst Supports. ChemNanoMat, 2018, 4, 28-40.	2.8	61
72	Metals Recovery from Seawater Desalination Brines: Technologies, Opportunities, and Challenges. ACS Sustainable Chemistry and Engineering, 2021, 9, 7704-7712.	6.7	60

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73	Carbon quantum dots and reduced graphene oxide modified self-assembled S@C3N4/B@C3N4 metal-free nano-photocatalyst for high performance degradation of chloramphenicol. Journal of Molecular Liquids, 2020, 300, 112356.	4.9	59
74	Preparation of BSA-ZnWO₄Nanocomposites with Enhanced Adsorptional Photocatalytic Activity for Methylene Blue Degradation. International Journal of Photoenergy, 2013, 2013, 1-7.	2.5	58
75	Robust magnetic ZnO-Fe2O3 Z-scheme hetereojunctions with in-built metal-redox for high performance photo-degradation of sulfamethoxazole and electrochemical dopamine detection. Environmental Research, 2021, 197, 111074.	7.5	58
76	Aerogels and metalâ€“organic frameworks for environmental remediation and energy production. Environmental Chemistry Letters, 2018, 16, 797-820.	16.2	57
77	Recent advances on nickel nano-ferrite: A review on processing techniques, properties and diverse applications. Chemical Engineering Research and Design, 2021, 175, 182-208.	5.6	57
78	A novel nanocomposite of polyaniline and Fe0.01Ni0.01Zn0.98O: Photocatalytic, electrical and antibacterial properties. Journal of Alloys and Compounds, 2013, 578, 249-256.	5.5	56
79	Molecular Simulations Reveal the Mechanism and the Determinants for Ampicillin Translocation through OmpF. Journal of Physical Chemistry B, 2010, 114, 9608-9616.	2.6	54
80	Honeycomb structured activated carbon synthesized from Pinus roxburghii cone as effective bioadsorbent for toxic malachite green dye. Journal of Water Process Engineering, 2019, 32, 100931.	5.6	53
81	Optimal positioning of dynamic wireless charging infrastructure in a road network for battery electric vehicles. Transportation Research, Part D: Transport and Environment, 2020, 85, 102385.	6.8	53
82	Particle size characteristics of suspended sediment transported in meltwater from the Gangotri Glacier, central Himalaya â€" An indicator of subglacial sediment evacuation. Geomorphology, 2010, 122, 140-152.	2.6	52
83	Synthesis and characterization of novel Fe@ZnO nanosystem. Journal of Alloys and Compounds, 2013, 578, 235-241.	5.5	52
84	Assessment and review of hydrometeorological aspects for cloudburst and flash flood events in the third pole region (Indian Himalaya). Polar Science, 2018, 18, 5-20.	1.2	52
85	Carbon nitride, metal nitrides, phosphides, chalcogenides, perovskites and carbides nanophotocatalysts for environmental applications. Environmental Chemistry Letters, 2019, 17, 655-682.	16.2	51
86	Ice-dams, outburst floods, and movement heterogeneity of glaciers, Karakoram. Global and Planetary Change, 2019, 180, 100-116.	3.5	50
87	Nanostructured magnetic inverse spinel Niâ€“Zn ferrite as environmental friendly visible light driven photo-degradation of levofloxacin. Chemical Engineering Research and Design, 2021, 175, 85-101.	5.6	50
88	Solar active nano-Zn1â^'xMgxFe2O4 as a magnetically separable sustainable photocatalyst for degradation of sulfadiazine antibiotic. Journal of Molecular Liquids, 2019, 294, 111574.	4.9	48
89	Facile fabrication of Zr2Ni1Cu7 trimetallic nano-alloy and its composite with Si3N4 for visible light assisted photodegradation of methylene blue. Journal of Molecular Liquids, 2018, 272, 170-179.	4.9	46
90	Laccase-assisted surface functionalization of lignocellulosics. Journal of Molecular Catalysis B: Enzymatic, 2014, 102, 48-58.	1.8	43

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91	The hazardous 2017â€“2019 surge and river damming by Shispare Glacier, Karakoram. Scientific Reports, 2020, 10, 4685.	3.3	43
92	Climatic control on extreme sediment transfer from Dokriani Glacier during monsoon, Garhwal Himalaya (India). Journal of Earth System Science, 2014, 123, 109-120.	1.3	42
93	A multifunctional nanocomposite pectin thorium(IV) tungstomolybdate for heavy metal separation and photoremediation of malachite green. Desalination and Water Treatment, 2016, 57, 19443-19455.	1.0	42
94	Determination of water quality of Ganga River System in Himalayan region, referencing indexing techniques. Arabian Journal of Geosciences, 2020, 13, 1.	1.3	42
95	Review on polycyclic aromatic hydrocarbons (PAHs) migration from wastewater. Journal of Contaminant Hydrology, 2021, 236, 103715.	3.3	42
96	Acceleration of photo-reduction and oxidation capabilities of Bi4O5I2/SPION@calcium alginate by metallic Ag: Wide spectral removal of nitrate and azithromycin. Chemical Engineering Journal, 2021, 423, 130173.	12.7	41
97	Nickel sulphide nano-composite assisted hole transport in thin film polymer solar cells. Solar Energy, 2020, 195, 310-317.	6.1	39
98	Meltwater storage and delaying characteristics of Gangotri Glacier (Indian Himalayas) during ablation season. Hydrological Processes, 2011, 25, 159-166.	2.6	38
99	Tracing isotopic signatures (ÎD and Î18O) in precipitation and glacier melt over Chorabari Glacierâ€“Hydroclimatic inferences for the Upper Ganga Basin (UGB), Garhwal Himalaya. Journal of Hydrology: Regional Studies, 2018, 15, 68-89.	2.4	38
100	Pectin-guar gum-zinc oxide nanocomposite enhances human lymphocytes cytotoxicity towards lung and breast carcinomas. Materials Science and Engineering C, 2018, 90, 494-503.	7.3	38
101	Evolution of debris flow and moraine failure in the Gangotri Glacier region, Garhwal Himalaya: Hydro-geomorphological aspects. Geomorphology, 2019, 333, 152-166.	2.6	38
102	Carboxymethyl cellulose structured nano-adsorbent for removal of methyl violet from aqueous solution: isotherm and kinetic analyses. Cellulose, 2020, 27, 3677-3691.	4.9	38
103	Utilization of Ag2Oâ€“Al2O3â€“ZrO2 decorated onto rGO as adsorbent for the removal of Congo red from aqueous solution. Environmental Research, 2021, 197, 111179.	7.5	38
104	Characterization of suspended sediment in Meltwater from Glaciers of Garhwal Himalaya. Hydrological Processes, 2014, 28, 969-979.	2.6	37
105	Assessment of Heavy Metals Toxicity and Ecological Impact on Surface Water Quality Using HPI in Ganga River. INAE Letters, 2018, 3, 123-129.	1.0	37
106	Higher efficiency of <scp>ISSR</scp> markers over plastid psbAâ€trnH region in resolving taxonomical status of genus Ocimum L.. Ecology and Evolution, 2016, 6, 7671-7682.	1.9	36
107	Routing aspects of electric vehicle drivers and their effects on network performance. Transportation Research, Part D: Transport and Environment, 2016, 46, 246-266.	6.8	36
108	Water Quality and Planktonic Composition of River Henwal (India) Using Comprehensive Pollution Index and Biotic-Indices. , 2020, 5, 541-553.		36

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109	Surface functionalization of coconut fibers by enzymatic biografting of syringaldehyde for the development of biocomposites. RSC Advances, 2015, 5, 76844-76851.	3.6	35
110	Chemical composition, genetic diversity, antibacterial, antifungal and antioxidant activities of camphor-basil (Ocimum kilimandscharicum Guerke). Industrial Crops and Products, 2018, 118, 246-258.	5.2	35
111	Designing of bentonite based nanocomposite hydrogel for the adsorptive removal and controlled release of ampicillin. Journal of Molecular Liquids, 2020, 319, 114166.	4.9	35
112	Intramolecular relaxation dynamics in semiflexible dendrimers. Journal of Chemical Physics, 2011, 134, 214901.	3.0	34
113	Guaran-based biodegradable and conducting interpenetrating polymer network composite hydrogels for adsorptive removal of methylene blue dye. Polymer Degradation and Stability, 2015, 122, 52-65.	5.8	34
114	Local surface plasmon resonance assisted energy harvesting in thin film organic solar cells. Journal of Alloys and Compounds, 2021, 856, 158172.	5.5	33
115	Dynamics of Semiflexible Dendrimers in Dilute Solutions. Macromolecules, 2010, 43, 7378-7385.	4.8	32
116	Thermo-mechanically stable sustainable polymer based solid electrolyte membranes for direct methanol fuel cell applications. Journal of Membrane Science, 2017, 526, 348-354.	8.2	32
117	Enhanced CO₂ Adsorption and Separation in Ionic-Liquid-Impregnated Mesoporous Silica MCM-41: A Molecular Simulation Study. Journal of Physical Chemistry C, 2018, 122, 8216-8227.	3.1	32
118	Mg0.5NixZn0.5-xFe2O4 spinel as a sustainable magnetic nano-photocatalyst with dopant driven band shifting and reduced recombination for visible and solar degradation of Reactive Blue-19. Advanced Powder Technology, 2020, 31, 4585-4597.	4.1	32
119	Comparative study on seasonal variation in hydro-chemical parameters of Ganga River water using comprehensive pollution index (CPI) at Rishikesh, (Uttarakhand) India. , 0, 118, 87-95.		32
120	A Perspective on Rishiganga-Dhauliganga Flash Flood in the Nanda Devi Biosphere Reserve, Garhwal Himalaya, India. Journal of the Geological Society of India, 2021, 97, 335-338.	1.1	31
121	Molar volume, viscosity and conductance studies of some alkali metal chlorides in aqueous ascorbic acid. Journal of Molecular Liquids, 2009, 150, 39-42.	4.9	30
122	Cellulose Nanocrystal Templated Graphene Nanoscrolls for High Performance Supercapacitors and Hydrogen Storage: An Experimental and Molecular Simulation Study. Scientific Reports, 2018, 8, 3886.	3.3	30
123	Graphene oxide supported La/Co/Ni trimetallic nano-scale systems for photocatalytic remediation of 2-chlorophenol. Journal of Molecular Liquids, 2019, 294, 111605.	4.9	30
124	Integrated Valorization of Desalination Brine through NaOH Recovery: Opportunities and Challenges. Angewandte Chemie - International Edition, 2019, 58, 6502-6511.	13.8	30
125	LaTiO2N/Bi2S3 Z-scheme nano heterostructures modified by rGO with high interfacial contact for rapid photocatalytic degradation of tetracycline. Journal of Molecular Liquids, 2020, 311, 113300.	4.9	30
126	Facile and One-Step in Situ Synthesis of Pure Phase Mesoporous Li₂MnSiO₄/CNTs Nanocomposite for Hybrid Supercapacitors. ACS Applied Energy Materials, 2020, 3, 2450-2464.	5.1	30

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127	Hydroclimatic influence on particle size distribution of suspended sediments evacuated from debris-covered Chorabari Glacier, upper Mandakini catchment, central Himalaya. Geomorphology, 2016, 265, 45-67.	2.6	29
128	Hydrometeorological assessments and suspended sediment delivery from a central Himalayan glacier in the upper Ganga basin. International Journal of Sediment Research, 2018, 33, 493-509.	3.5	29
129	Topographic and climatic influence on seasonal snow cover: Implications for the hydrology of ungauged Himalayan basins, India. Journal of Hydrology, 2020, 585, 124716.	5.4	29
130	Utilizing recycled LiFePO4 from batteries in combination with B@C3N4 and CuFe2O4 as sustainable nano-junctions for high performance degradation of atenolol. Chemosphere, 2018, 209, 457-469.	8.2	29
131	Investigation of structural and magnetic properties of thermal plasma-synthesized Fe1â^'xNi alloy nanoparticles. Journal of Alloys and Compounds, 2016, 663, 30-40.	5.5	28
132	Conformational transitions in semiflexible dendrimers induced by bond orientations. Journal of Chemical Physics, 2012, 137, 124903.	3.0	27
133	Gum Acaciaâ€clâ€poly(acrylamide)@carbon nitride Nanocomposite Hydrogel for Adsorption of Ciprofloxacin and its Sustained Release in Artificial Ocular Solution. Macromolecular Materials and Engineering, 2020, 305, 2000274.	3.6	27
134	Electrospun ferric ceria nanofibers blended with MWCNTs for high-performance electrochemical detection of uric acid. Ceramics International, 2020, 46, 9050-9064.	4.8	26
135	AgO/MgO/FeO@Si3N4 nanocomposite with robust adsorption capacity for tetracycline antibiotic removal from aqueous system. Advanced Powder Technology, 2020, 31, 4310-4318.	4.1	26
136	A fractional model to describe the Brownian motion of particles and its analytical solution. Advances in Mechanical Engineering, 2015, 7, 168781401561887.	1.6	25
137	The development of antibacterial and hydrophobic functionalities in natural fibers for fiber-reinforced composite materials. Journal of Environmental Chemical Engineering, 2016, 4, 1743-1752.	6.7	25
138	Surface functionalization of lignin constituent of coconut fibers via laccase-catalyzed biografting for development of antibacterial and hydrophobic properties. Journal of Cleaner Production, 2016, 113, 176-182.	9.3	25
139	Character-based DNA barcoding for authentication and conservation of IUCN Red listed threatened species of genus Decalepis (Apocynaceae). Scientific Reports, 2017, 7, 14910.	3.3	25
140	Fabrication of oxidized graphite supported La2O3/ZrO2 nanocomposite for the photoremediation of toxic fast green dye. Journal of Molecular Liquids, 2019, 277, 738-748.	4.9	25
141	Ag0-Ag2O embedded nanocomposite hydrogel for adsorption-coupled-photocatalytic removal of triclosan. Materials Letters, 2020, 276, 128169.	2.6	25
142	Constructing Z-scheme LaTiO2N/g-C3N4@Fe3O4 magnetic nano heterojunctions with promoted charge separation for visible and solar removal of indomethacin. Journal of Water Process Engineering, 2020, 36, 101391.	5.6	25
143	Analysis of Climate and Melt-runoff in Dunagiri Glacier of Garhwal Himalaya (India). Water Resources Management, 2014, 28, 3035-3055.	3.9	24
144	A day-to-day dynamical model for the evolution of path flows under disequilibrium of traffic networks with fixed demand. Transportation Research Part B: Methodological, 2015, 80, 235-256.	5.9	24

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145	Hydroclimatic significance of stable isotopes in precipitation from glaciers of <scp>Garhwal Himalaya</scp>, <scp>Upper Ganga Basin</scp> (<scp>UGB</scp>), <scp>India</scp>. Hydrological Processes, 2018, 32, 1874-1893.	2.6	24
146	Evaluation of single and multilocus DNA barcodes towards species delineation in complex tree genus Terminalia. PLoS ONE, 2017, 12, e0182836.	2.5	24
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