

Mu Naushad

List of Publications by Year in Descending Order

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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.

462
papers

21,317
citations

77
h-index

126
g-index

476
ext. papers

26,120
ext. citations

6.3
avg, IF

7.88
L-index

#	Paper	IF	Citations
462	ZnO-based heterostructures as photocatalysts for hydrogen generation and depollution: a review. <i>Environmental Chemistry Letters</i> , 2022 , 20, 1047	13.3	6
461	Eco-friendly synthesis of cobalt-zinc ferrites using quince extract for adsorption and catalytic applications: An approach towards environmental remediation.. <i>Chemosphere</i> , 2022 , 294, 133565	8.4	3
460	Amine-amide functionalized graphene oxide sheets as bifunctional adsorbent for the removal of polar organic pollutants.. <i>Journal of Hazardous Materials</i> , 2022 , 429, 128308	12.8	3
459	Biopolymer mixture-entrapped modified graphene oxide for sustainable treatment of heavy metal contaminated real surface water. <i>Journal of Water Process Engineering</i> , 2022 , 46, 102631	6.7	3
458	Sustainable green nanoadsorbents for remediation of pharmaceuticals from water and wastewater: A critical review. <i>Environmental Research</i> , 2022 , 204, 112243	7.9	9
457	Generation of novel n-p-n (CeO-PPy-ZnO) heterojunction for photocatalytic degradation of micro-organic pollutants. <i>Environmental Pollution</i> , 2022 , 292, 118375	9.3	11
456	Controlled synthesis of porous Zn/Fe based layered double hydroxides: Synthesis mechanism, and ciprofloxacin adsorption. <i>Separation and Purification Technology</i> , 2022 , 278, 119481	8.3	9
455	Accelerated charge transfer in well-designed S-scheme Fe@TiO/Boron carbon nitride heterostructures for high performance tetracycline removal and selective photo-reduction of CO greenhouse gas into CH fuel. <i>Chemosphere</i> , 2022 , 287, 132301	8.4	11
454	Chemical analysis of low carbon content coals and their applications as dye adsorbent. <i>Chemosphere</i> , 2022 , 287, 132286	8.4	3
453	Modified TiO ₂ nanotubes-zeolite composite photocatalyst: Characteristics, microstructure and applicability for degrading triclocarban. <i>Chemosphere</i> , 2022 , 287, 132278	8.4	1
452	Adsorption of cationic dyes onto carrageenan and itaconic acid-based superabsorbent hydrogel: Synthesis, characterization and isotherm analysis. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126729	12.8	25
451	Applications of artificial intelligence in water treatment for optimization and automation of adsorption processes: Recent advances and prospects. <i>Chemical Engineering Journal</i> , 2022 , 427, 130011	14.7	27
450	Activated Carbon as Superadsorbent and Sustainable Material for Diverse Applications. <i>Adsorption Science and Technology</i> , 2022 , 2022, 1-21	3.6	3
449	Fabrication of hydroxyapatite embedded cerium-organic frameworks for fluoride capture from water. <i>Journal of Molecular Liquids</i> , 2022 , 354, 118830	6	4
448	Rationally designed and hierarchically structured functionalized aluminium organic frameworks incorporated chitosan hybrid beads for defluoridation of water.. <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	1
447	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
446	Evaluation of photocatalytic performances of PEG and PVP capped zinc sulfide nanoparticles towards organic environmental pollutant in presence of sunlight.. <i>Chemosphere</i> , 2022 , 298, 134281	8.4	1

445	Development and characterization of hydroxyapatite layered lanthanum organic frameworks by template method for defluoridation of water.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 228-238	8.3	3
444	Remediation of wastewater containing 4-nitrophenol using ionic liquid stabilized nanoparticles: Synthesis, characterizations and applications. <i>Chemosphere</i> , 2022 , 303, 135173	8.4	0
443	Production of carbon-based adsorbents from lignocellulosic biomass 2022 , 169-192		1
442	Polyvinyl Alcohol Polymer Functionalized Graphene Oxide Decorated with Gadolinium Oxide for Sequestration of Radionuclides from Aqueous Medium: Characterization, Mechanism, and Environmental Feasibility Studies. <i>Polymers</i> , 2021 , 13,	4.5	6
441	The Physical Modeling Analysis of Fate and Transport of Silver Nanoparticles Dispersed by Water Flow. <i>Journal of Chemistry</i> , 2021 , 2021, 1-9	2.3	0
440	Eco-friendly design of functionalized graphene oxide incorporated alginate beads for selective fluoride retention. <i>Diamond and Related Materials</i> , 2021 , 121, 108747	3.5	2
439	A comprehensive review on the removal of noxious pollutants using carrageenan based advanced adsorbents. <i>Chemosphere</i> , 2021 , 289, 133100	8.4	4
438	Emerging contaminants of high concern for the environment: Current trends and future research.. <i>Environmental Research</i> , 2021 , 207, 112609	7.9	23
437	Precipitation of (Mg/Fe-CTAB) - Layered double hydroxide nanoparticles onto sewage sludge for producing novel sorbent to remove Congo red and methylene blue dyes from aqueous environment. <i>Chemosphere</i> , 2021 , 132693	8.4	1
436	Green Synthesis of Metal and Metal Oxide Nanoparticles:Principles of Green Chemistry and Raw Materials. <i>Magnetochemistry</i> , 2021 , 7, 145	3.1	10
435	Visible light-driven photocatalytic rapid degradation of organic contaminants engaging manganese dioxide-incorporated iron oxide three dimensional nanoflowers. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 2347-2347	9.3	4
434	Covalent Organic Frameworks: Synthesis, Properties and Applications-An Overview. <i>Polymers</i> , 2021 , 13,	4.5	10
433	Green synthesis, structure, cations distribution and bonding characteristics of superparamagnetic cobalt-zinc ferrites nanoparticles for Pb(II) adsorption and magnetic hyperthermia applications. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115375	6	28
432	Synthesis and characterization of CuO doped lithium magnesium borate glasses for thermoluminescence dosimetry. <i>Optik</i> , 2021 , 231, 166369	2.5	1
431	Photocatalytic degradation of environmental pollutant using nickel and cerium ions substituted Co _{0.6} Zn _{0.4} Fe ₂ O ₄ nanoferrites. <i>Earth Systems and Environment</i> , 2021 , 5, 399	7.5	10
430	Fabrication of magnetic nanoparticles supported ionic liquid catalyst for transesterification of vegetable oil to produce biodiesel. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115648	6	3
429	Hospital wastewater as a source of environmental contamination: An overview of management practices, environmental risks, and treatment processes. <i>Journal of Water Process Engineering</i> , 2021 , 41, 101990	6.7	19
428	Robust magnetic ZnO-FeO Z-scheme heterojunctions with in-built metal-redox for high performance photo-degradation of sulfamethoxazole and electrochemical dopamine detection. <i>Environmental Research</i> , 2021 , 197, 111074	7.9	25

427	Utilization of AgO-AlO-ZrO decorated onto rGO as adsorbent for the removal of Congo red from aqueous solution. <i>Environmental Research</i> , 2021 , 197, 111179	7.9	14
426	Design and synthesis of amine grafted graphene oxide encapsulated chitosan hybrid beads for defluoridation of water. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1843-1851	7.9	5
425	Cement kiln dust-sand permeable reactive barrier for remediation of groundwater contaminated with dissolved benzene. <i>Separation Science and Technology</i> , 2021 , 56, 870-883	2.5	6
424	High removal of emerging contaminants from wastewater by activated carbons derived from the shell of cashew of Para. <i>Carbon Letters</i> , 2021 , 31, 13-28	2.3	14
423	Design and development of amine functionalized iron based metal organic frameworks for selective fluoride removal from water environment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104563	6.8	26
422	Silicate glass matrix@CuO/CuVO p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123790	12.8	45
421	Fabrication of amino functionalized benzene-1,4-dicarboxylic acid facilitated cerium based metal organic frameworks for efficient removal of fluoride from water environment. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 384-395	4.2	15
420	Environmental friendly and robust Mg _{0.5} -xCu _x Zn _{0.5} Fe ₂ O ₄ spinel nanoparticles for visible light driven degradation of Carbamazepine: Band shift driven by dopants. <i>Materials Letters</i> , 2021 , 284, 129005-3	3.3	12
419	Facile ball-milling synthesis of CeO ₂ /g-C ₃ N ₄ Z-scheme heterojunction for synergistic adsorption and photodegradation of methylene blue: Characteristics, kinetics, models, and mechanisms. <i>Chemical Engineering Journal</i> , 2021 , 420, 127719	14.7	38
418	Construction of dual Z-scheme g-C ₃ N ₄ /Bi ₄ Ti ₃ O ₁₂ /Bi ₄ O ₅ I ₂ heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via Bi ³⁺ and Bi ⁵⁺ redox mediators. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119808	21.8	109
417	Development of a polymeric nanocomposite as a high performance adsorbent for Pb(II) removal from water medium: Equilibrium, kinetic and antimicrobial activity. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124816	12.8	28
416	Superficial development of Lewis zirconium ion cross-linked gelatin/kaolin hybrid composite for nutrients remediation. <i>Journal of Molecular Liquids</i> , 2021 , 324, 114982	6	0
415	Development of triaminotriazine functionalized graphene oxide capped chitosan porous composite beads for nutrients remediation towards water purification. <i>International Journal of Biological Macromolecules</i> , 2021 , 170, 13-23	7.9	7
414	Analysis of degradation pathways and intermediates products for ciprofloxacin using a highly porous photocatalyst. <i>Chemical Engineering Journal</i> , 2021 , 417, 127969	14.7	17
413	Metal/metal oxide nanocomposites for bactericidal effect: A review. <i>Chemosphere</i> , 2021 , 272, 128607	8.4	21
412	Coronavirus 2 (SARS-CoV-2) in water environments: Current status, challenges and research opportunities. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101735	6.7	14
411	Smart polymeric composite membranes for wastewater treatment 2021 , 313-350		3
410	Nitrogen-doped carbon quantum dots (N-CQDs)/Co ₃ O ₄ nanocomposite for high performance supercapacitor. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101252	3.6	11

409 Smart polymer coatings for membrane antifouling applications **2021**, 415-450

408 Adsorptional-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic acid-co-acrylamide)/zirconium tungstate nanocomposite hydrogel. *Journal of Hazardous Materials*, **2021**, 416, 125714 12.8 43

407 Recent technologies for nutrient removal and recovery from wastewaters: A review. *Chemosphere*, **2021**, 277, 130328 8.4 18

406 Incorporation of trimetallic nanoparticles to the SiO₂ matrix for the removal of methylene blue dye from aqueous medium. *Journal of Molecular Liquids*, **2021**, 336, 116274 6 13

405 Design and fabrication of sulfonic acid functionalized graphene oxide for enriched fluoride adsorption. *Diamond and Related Materials*, **2021**, 117, 108446 3.5 7

404 An environmental approach for the photodegradation of toxic pollutants from wastewater using silver nanoparticles decorated titania-reduced graphene oxide. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105622 6.8 8

403 Design and synthesis of amine functionalized graphene oxide for enhanced fluoride removal. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105384 6.8 8

402 Green synthesis for novel sorbent of sand coated with (Ca/Al)-layered double hydroxide for the removal of toxic dye from aqueous environment. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105342 6.8 6

401 Trimetallic@Cyclodextrin Nanocomposite: Photocatalyst for Degradation of Amoxicillin and Catalyst for Esterification Reactions. *Journal of Chemistry*, **2021**, 2021, 1-14 2.3 2

400 Global soil pollution by toxic elements: Current status and future perspectives on the risk assessment and remediation strategies - A review. *Journal of Hazardous Materials*, **2021**, 417, 126039 12.8 50

399 High interfacial charge carrier separation in Fe₃O₄ modified SrTiO₃/Bi₄O₅I₂ robust magnetic nano-heterojunction for rapid photodegradation of diclofenac under simulated solar-light. *Journal of Cleaner Production*, **2021**, 315, 128137 10.3 10

398 Fabrication of lanthanum linked trimesic acid as porous metal organic frameworks for effective nitrate and phosphate adsorption. *Journal of Solid State Chemistry*, **2021**, 302, 122446 3.3 10

397 Engineered nanoparticles for removal of pollutants from wastewater: Current status and future prospects of nanotechnology for remediation strategies. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106160 6.8 20

396 Recent advances on nickel nano-ferrite: A review on processing techniques, properties and diverse applications. *Chemical Engineering Research and Design*, **2021**, 175, 182-208 5.5 11

395 Effect of seasonal variation on the occurrences of high-risk pharmaceutical in drain-laden surface water: A risk analysis of Yamuna River. *Science of the Total Environment*, **2021**, 794, 148484 10.2 12

394 Photocatalytic degradation of dyes using rutile TiO₂ synthesized by reverse micelle and low temperature methods: real-time monitoring of the degradation kinetics. *Journal of Molecular Liquids*, **2021**, 342, 117407 6 4

393 Nanostructured magnetic inverse spinel Ni_{0.5}Zn ferrite as environmental friendly visible light driven photo-degradation of levofloxacin. *Chemical Engineering Research and Design*, **2021**, 175, 85-101 5.5 13

392 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 14.7 17

391	Green approach and strategies for wastewater treatment using bioelectrochemical systems: A critical review of fundamental concepts, applications, mechanism, and future trends. <i>Chemosphere</i> , 2021 , 285, 131373	8.4	5
390	Pharmaceutical pollutant as sacrificial agent for sustainable synergistic water treatment and hydrogen production via novel Z- scheme Bi7O9I3/B4C heterojunction photocatalysts. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117652	6	4
389	Application of smart polymers in nanomedicine 2021 , 215-233		
388	Fabrication and Characterization of Xanthan Gum-cl-poly(acrylamide-co-alginate acid) Hydrogel for Adsorption of Cadmium Ions from Aqueous Medium.. <i>Gels</i> , 2021 , 8,	4.2	3
387	Fabrication of Highly Porous Polymeric Nanocomposite for the Removal of Radioactive U(VI) and Eu(III) Ions from Aqueous Solution. <i>Polymers</i> , 2020 , 12,	4.5	8
386	Fabrication of Z-scheme photocatalysts g-CN/AgPO/chitosan for the photocatalytic degradation of ciprofloxacin. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3864-3872	7.9	21
385	Comparative and Equilibrium Studies on Anionic and Cationic Dyes Removal by Nano-Alumina-Doped Catechol Formaldehyde Composite. <i>Journal of Chemistry</i> , 2020 , 2020, 1-15	2.3	5
384	Microfabrication of Triazine Functionalized Graphene Oxide Anchored Alginate Bead System for Effective Nutrients Removal. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2712-2724	2.8	12
383	Adsorption of Sr(II) ions and salicylic acid onto magnetic magnesium-zinc ferrites: isotherms and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 26681-26693	5.1	47
382	Development of Multivalent Metal-Ion-Fabricated Fumaric Acid-Based Metal-Organic Frameworks for Defluorination of Water. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2990-3001	2.8	37
381	LaTiO2N/Bi2S3 Z-scheme nano heterostructures modified by rGO with high interfacial contact for rapid photocatalytic degradation of tetracycline. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113300	6	18
380	Photocatalytic degradation of bisphenol-A with g-C3N4/MoS2-PANI nanocomposite: Kinetics, main active species, intermediates and pathways. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113339	6	34
379	Kinetic Model for pH Variation Resulted from Interaction of Aqueous Solution Contaminated with Nickel Ions and Cement Kiln Dust. <i>Journal of Chemistry</i> , 2020 , 2020, 1-11	2.3	8
378	Fabrication of magnetic polymeric resin for the removal of toxic metals from aqueous medium: Kinetics and adsorption mechanisms. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101284	6.7	18
377	Visibly Active FeO/ZnO@PANI Magnetic Nano-photocatalyst for the Degradation of 3-Aminophenol. <i>Topics in Catalysis</i> , 2020 , 63, 1302-1313	2.3	6
376	Ag0-Ag2O embedded nanocomposite hydrogel for adsorption-coupled-photocatalytic removal of triclosan. <i>Materials Letters</i> , 2020 , 276, 128169	3.3	15
375	NiMnCr layered double hydroxide-carbon spheres modified Ni foam: An efficient positive electrode for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 396, 125370	14.7	13
374	Constructing Z-scheme LaTiO2N/g-C3N4@Fe3O4 magnetic nano heterojunctions with promoted charge separation for visible and solar removal of indomethacin. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101391	6.7	19

373	Atrazine removal using chitin-cl-poly(acrylamide-co-itaconic acid) nanohydrogel: Isotherms and pH responsive nature. <i>Carbohydrate Polymers</i> , 2020 , 241, 116258	10.3	47
372	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020 , 138, 105646	12.9	112
371	Graft Copolymerization of Acrylonitrile and Ethyl Acrylate onto Pinus Roxburghii Wood Surface Enhanced Physicochemical Properties and Antibacterial Activity. <i>Journal of Chemistry</i> , 2020 , 2020, 1-16	2.3	3
370	Carboxymethyl cellulose structured nano-adsorbent for removal of methyl violet from aqueous solution: isotherm and kinetic analyses. <i>Cellulose</i> , 2020 , 27, 3677-3691	5.5	21
369	Application of a Liquid Biphasic Flotation (LBF) System for Protein Extraction from <i>Persicaria Tenulla</i> Leaf. <i>Processes</i> , 2020 , 8, 247	2.9	3
368	Waste foundry sand/MgFe-layered double hydroxides composite material for efficient removal of Congo red dye from aqueous solution. <i>Scientific Reports</i> , 2020 , 10, 2042	4.9	73
367	Environmental remediation of synthetic leachate produced from sanitary landfills using low-cost composite sorbent. <i>Environmental Technology and Innovation</i> , 2020 , 18, 100680	7	13
366	Removal of Cd(II) ion from aqueous environment using triaminotriethoxysilane grafted oxidized activated carbon synthesized via activation and subsequent silanization. <i>Environmental Technology and Innovation</i> , 2020 , 18, 100686	7	17
365	Fabrication of highly porous N/S doped carbon embedded with CuO/CuS nanoparticles for NH ₃ gas sensing. <i>Materials Letters</i> , 2020 , 268, 127515	3.3	8
364	A sustainable approach to utilize olive pips for the sorption of lead ions: Numerical modeling with aid of artificial neural network. <i>Sustainable Chemistry and Pharmacy</i> , 2020 , 15, 100220	3.9	14
363	N/S-doped carbon embedded with AgNPs as a highly efficient catalyst for the reduction of toxic organic pollutants. <i>Materials Letters</i> , 2020 , 264, 127310	3.3	17
362	Contrasting effects of biochar and hydrothermally treated coal gangue on leachability, bioavailability, speciation and accumulation of heavy metals by rapeseed in copper mine tailings. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 191, 110244	7	31
361	Rapid visible and solar photocatalytic Cr(VI) reduction and electrochemical sensing of dopamine using solution combustion synthesized ZnO/Fe ₂ O ₃ nano heterojunctions: Mechanism Elucidation. <i>Ceramics International</i> , 2020 , 46, 12255-12268	5.1	49
360	Graphitic Carbon Nitride-Nickel Catalyst: From Material Characterization to Efficient Ethanol Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7244-7255	8.3	20
359	Adsorptive removal of noxious cadmium ions from aqueous medium using activated carbon/zirconium oxide composite: Isotherm and kinetic modelling. <i>Journal of Molecular Liquids</i> , 2020 , 310, 113025	6	113
358	Functional nanomaterial in energy and environmental science 2020 , 1-23		
357	Synthesis of composite sorbent for the treatment of aqueous solutions contaminated with methylene blue dye. <i>Water Science and Technology</i> , 2020 , 81, 1494-1506	2.2	3
356	Green Photocatalyst for Diverse Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 1-18	0.8	1

355	Synthesis of a Novel Composite Sorbent Coated with Siderite Nanoparticles and its Application for Remediation of Water Contaminated with Congo Red Dye. <i>International Journal of Environmental Research</i> , 2020 , 14, 177-191	2.9	16
354	Magnetic graphene/chitosan nanocomposite: A promising nano-adsorbent for the removal of 2-naphthol from aqueous solution and their kinetic studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 159, 530-538	7.9	33
353	CeO ₂ /g-C ₃ N ₄ /V ₂ O ₅ ternary nano hetero-structures decorated with CQDs for enhanced photo-reduction capabilities under different light sources: Dual Z-scheme mechanism. <i>Journal of Alloys and Compounds</i> , 2020 , 838, 155692	5.7	60
352	Predominant mechanisms for the removal of nickel metal ion from aqueous solution using cement kiln dust. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101033	6.7	18
351	Pollutants inducing epigenetic changes and diseases. <i>Environmental Chemistry Letters</i> , 2020 , 18, 325-343	13.3	47
350	Preparation of chitosan based magnetic nanocomposite for tetracycline adsorption: Kinetic and thermodynamic studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 147, 258-267	7.9	69
349	Hydrothermal fabrication of triazine-functionalized covalent organic polymer enfolded alginate biocomposite beads for Cr(VI) removal from water. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 851-863	4.2	14
348	Effective adsorption of antidiabetic pharmaceutical (metformin) from aqueous medium using graphene oxide nanoparticles: Equilibrium and statistical modelling. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112426	6	79
347	Waterworks sludge-filter sand permeable reactive barrier for removal of toxic lead ions from contaminated groundwater. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101112	6.7	126
346	Carbon quantum dots and reduced graphene oxide modified self-assembled S@C ₃ N ₄ /B@C ₃ N ₄ metal-free nano-photocatalyst for high performance degradation of chloramphenicol. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112356	6	37
345	Utilization of waste polyethylene terephthalate bottles to develop metal-organic frameworks for energy applications: A clean and feasible approach. <i>Journal of Cleaner Production</i> , 2020 , 248, 119251	10.3	31
344	Synthesis of NiOx@NPC composite for high-performance supercapacitor via waste PET plastic-derived Ni-MOF. <i>Composites Part B: Engineering</i> , 2020 , 183, 107655	10	46
343	Functionalized MoS ₂ /polyurethane sponge: An efficient scavenger for oil in water. <i>Separation and Purification Technology</i> , 2020 , 238, 116420	8.3	20
342	Low cost and quick time absorption of organic dye pollutants under ambient condition using partially exfoliated graphite. <i>Journal of Water Process Engineering</i> , 2020 , 34, 101078	6.7	18
341	Excellent adsorptive performance of a new nanocomposite for removal of toxic Pb(II) from aqueous environment: Adsorption mechanism and modeling analysis. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121896	12.8	66
340	Facile fabrication of chitosan-cl-poly(AA)/ZrPO ₄ nanocomposite for remediation of rhodamine B and antimicrobial activity. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1359-1365	3.6	13
339	Chitosan polymer complex derived nanocomposite (AgNPs/NSC) for electrochemical non-enzymatic glucose sensor. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 763-772	7.9	35
338	Water quality assessment of shallow aquifer based on Canadian Council of Ministers of the environment index and its impact on irrigation of Mathura District, Uttar Pradesh. <i>Journal of King Saud University - Science</i> , 2020 , 32, 1218-1225	3.6	19

337	Fabrication of MoS ₂ /ZnS embedded in N/S doped carbon for the photocatalytic degradation of pesticide. <i>Materials Letters</i> , 2020 , 263, 127271	3.3	59
336	Process intensification and comparison of bioethanol production from food industry waste (potatoes) by ultrasonic assisted acid hydrolysis and enzymatic hydrolysis: Statistical modelling and optimization. <i>Biomass and Bioenergy</i> , 2020 , 142, 105752	5.3	17
335	Efficient removal of antidepressant Flupentixol using graphene oxide/cellulose nanogel composite: Particle swarm algorithm based artificial neural network modelling and optimization. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114371	6	10
334	Birnessite-type manganese dioxide nanoparticles embedded with nitrogen-doped carbon for high-performance supercapacitor. <i>Journal of Energy Storage</i> , 2020 , 32, 101952	7.8	9
333	Self-nitrogen doped carbons aerogel derived from waste cigarette butts (cellulose acetate) for the adsorption of BPA: Kinetics and adsorption mechanisms. <i>Journal of King Saud University - Science</i> , 2020 , 32, 3351-3358	3.6	8
332	Designing of bentonite based nanocomposite hydrogel for the adsorptive removal and controlled release of ampicillin. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114166	6	16
331	Development of watermelon rind derived activated carbon/manganese ferrite nanocomposite for cleaner desalination by capacitive deionization. <i>Journal of Cleaner Production</i> , 2020 , 272, 122626	10.3	16
330	Humic acid coated sand as a novel sorbent in permeable reactive barrier for environmental remediation of groundwater polluted with copper and cadmium ions. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101373	6.7	15
329	Fabrication of CoP based nanocomposite as an electrocatalyst for oxygen- and hydrogen-evolving energy conversion reactions. <i>Materials Letters</i> , 2020 , 278, 128351	3.3	3
328	Mg _{0.5} Ni _x Zn _{0.5-x} Fe ₂ O ₄ spinel as a sustainable magnetic nano-photocatalyst with dopant driven band shifting and reduced recombination for visible and solar degradation of Reactive Blue-19. <i>Advanced Powder Technology</i> , 2020 , 31, 4585-4597	4.6	10
327	Gum Acacia-cl-poly(acrylamide)@carbon nitride Nanocomposite Hydrogel for Adsorption of Ciprofloxacin and its Sustained Release in Artificial Ocular Solution. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000274	3.9	14
326	Fe ₃ O ₄ /ZnO/Si ₃ N ₄ nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. <i>Materials Letters</i> , 2020 , 278, 128359	3.3	81
325	Synthesis and characterization cobalt phosphate embedded with N doped carbon for water splitting ORR and OER. <i>Journal of King Saud University - Science</i> , 2020 , 32, 2826-2830	3.6	3
324	Facile fabrication of tunable porous zirconium fumarate based metal organic frameworks in the retention of nutrients from water. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 2856-2870	4.3	9
323	Ag ₂ O/Al ₂ O ₃ /ZrO ₂ Trimetallic Nanocatalyst for High Performance Photodegradation of Nicosulfuron Herbicide. <i>Topics in Catalysis</i> , 2020 , 63, 1272-1285	2.3	0
322	AgO/MgO/FeO@Si ₃ N ₄ nanocomposite with robust adsorption capacity for tetracycline antibiotic removal from aqueous system. <i>Advanced Powder Technology</i> , 2020 , 31, 4310-4318	4.6	15
321	Fabrication of starch-salicylaldehyde based polymer nanocomposite (PNC) for the removal of pollutants from contaminated water. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2731-2738	7.9	7
320	Fe ₃ O ₄ mediated Z-scheme BiVO ₄ /Cr ₂ V ₄ O ₁₃ strongly coupled nano-heterojunction for rapid degradation of fluoxetine under visible light. <i>Materials Letters</i> , 2020 , 281, 128650	3.3	12

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6	Efficient photocatalytic degradation of toxic dyes using nanostructured TiO ₂ /polyaniline nanocomposite108, 322-328		30
5	Adsorptive removal of Pb(II) metal from aqueous medium using biogenically synthesized and magnetically recoverable core-shell structured AM@Cu/Fe ₃ O ₄ nanocomposite111, 278-285		8
4	Adsorptive removal of toxic Methylene Blue and Acid Orange 7 dyes from aqueous medium using cobalt-zinc ferrite nano-adsorbents150, 374-385		82
3	Removal of highly toxic Cd(II) metal ions from aqueous medium using magnetic nanocomposite: adsorption kinetics, isotherm and thermodynamics181, 355-361		7
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