Gaurav Sharma

List of Publications by Citations

132 papers	8,591 citations	59 h-index	90 g-index
136 ext. papers	10,343 ext. citations	6.6 avg, IF	6.9 L-index

#	Paper	IF	Citations
132	Novel development of nanoparticles to bimetallic nanoparticles and their composites: A review. *Journal of King Saud University - Science*, **2019**, 31, 257-269	3.6	275
131	Synthesis and characterization of a new starch/SnO2 nanocomposite for efficient adsorption of toxic Hg2+ metal ion. *Chemical Engineering Journal*, **2016**, 300, 306-316	14.7	274
130	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	14.7	238
129	Photodegradation of toxic dye using Gum Arabic-crosslinked-poly(acrylamide)/Ni(OH)2/FeOOH nanocomposites hydrogel. *Journal of Cleaner Production*, **2019**, 241, 118263	10.3	223
128	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	7.9	184
127	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	14.7	180
126	Fabrication, characterization and antimicrobial activity of polyaniline Th(IV) tungstomolybdophosphate nanocomposite material: Efficient removal of toxic metal ions from water. *Chemical Engineering Journal*, **2014**, 251, 413-421	14.7	178
125	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	10.3	176
124	Electrochemical synthesized copper oxide nanoparticles for enhanced photocatalytic and antimicrobial activity. *Journal of Industrial and Engineering Chemistry*, **2015**, 31, 173-184	6.3	175
123	Adsorption kinetics, isotherms, and thermodynamic studies for Hg2+ adsorption from aqueous medium using alizarin red-S-loaded amberlite IRA-400 resin. *Desalination and Water Treatment*, **2016**, 57, 18551-18559		168
122	Guar gum and its composites as potential materials for diverse applications: A review. *Carbohydrate Polymers*, **2018**, 199, 534-545	10.3	160
121	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	5.5	152
120	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	4.7	147
119	Revolution from monometallic to trimetallic nanoparticle composites, various synthesis methods and their applications: A review. *Materials Science and Engineering C*, **2017**, 71, 1216-1230	8.3	142
118	Wide spectral degradation of Norfloxacin by Ag@BiPO/BiOBr/BiFeO nano-assembly: Elucidating the photocatalytic mechanism under different light sources. *Journal of Hazardous Materials*, **2019**, 364, 429-440	12.8	142
117	Fabrication of MWCNTs/ThO2 nanocomposite and its adsorption behavior for the removal of Pb(II) metal from aqueous medium. *Desalination and Water Treatment*, **2016**, 57, 21863-21869		139
116	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	4.7	135

115	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	5.1	131
114	Nano FexZn1−xO as a tuneable and efficient photocatalyst for solar powered degradation of bisphenol A from aqueous environment. *Journal of Cleaner Production*, **2017**, 165, 1542-1556	10.3	125
113	Fabrication and characterization of Gum arabic-cl-poly(acrylamide) nanohydrogel for effective adsorption of crystal violet dye. *Carbohydrate Polymers*, **2018**, 202, 444-453	10.3	124
112	Applications of nanocomposite hydrogels for biomedical engineering and environmental protection. *Environmental Chemistry Letters*, **2018**, 16, 113-146	13.3	123
111	Modification of Hibiscus cannabinus fiber by graft copolymerization: application for dye removal. *Desalination and Water Treatment*, **2015**, 54, 3114-3121		118
110	Photoremediation of toxic dye from aqueous environment using monometallic and bimetallic quantum dots based nanocomposites. *Journal of Cleaner Production*, **2018**, 172, 2919-2930	10.3	117
109	SPION/Cyclodextrin core–shell nanostructures for oil spill remediation and organic pollutant removal from waste water. *Chemical Engineering Journal*, **2015**, 280, 175-187	14.7	114
108	Adsorptive removal of noxious cadmium ions from aqueous medium using activated carbon/zirconium oxide composite: Isotherm and kinetic modelling. *Journal of Molecular Liquids*, **2020**, 310, 113025	6	113
107	Construction of dual Z-scheme g-C3N4/Bi4Ti3O12/Bi4O5I2 heterojunction for visible and solar powered coupled photocatalytic antibiotic degradation and hydrogen production: Boosting via I−/I3− and Bi3+/Bi5+ redox mediators. *Applied Catalysis B: Environmental*, **2021**, 284, 119808	21.8	109
106	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	8.3	106
105	Magnetically recoverable ZrO2/Fe3O4/chitosan nanomaterials for enhanced sunlight driven photoreduction of carcinogenic Cr(VI) and dechlorination & mineralization of 4-chlorophenol from simulated waste water. *RSC Advances*, **2016**, 6, 13251-13263	3.7	105
104	Highly efficient Sr/Ce/activated carbon bimetallic nanocomposite for photoinduced degradation of rhodamine B. *Catalysis Today*, **2019**, 335, 437-451	5.3	102
103	High-Performance Photocatalytic Hydrogen Production and Degradation of Levofloxacin by Wide Spectrum-Responsive Ag/FeO Bridged SrTiO/g-CN Plasmonic Nanojunctions: Joint Effect of Ag and FeO. *ACS Applied Materials & Interfaces*, **2018**, 10, 40474-40490	9.5	101
102	Novel guar gum/Al2O3 nanocomposite as an effective photocatalyst for the degradation of malachite green dye. *International Journal of Biological Macromolecules*, **2016**, 87, 366-74	7.9	100
101	Fabrication and characterization of trimetallic nano-photocatalyst for remediation of ampicillin antibiotic. *Journal of Molecular Liquids*, **2018**, 260, 342-350	6	99
100	Bio-inspired and biomaterials-based hybrid photocatalysts for environmental detoxification: A review. *Chemical Engineering Journal*, **2020**, 382, 122937	14.7	98
99	Polyacrylamide/Ni0.02Zn0.98O Nanocomposite with High Solar Light Photocatalytic Activity and Efficient Adsorption Capacity for Toxic Dye Removal. *Industrial & Engineering Chemistry Research*, **2014**, 53, 15549-15560	3.9	96
98	Perovskites photovoltaic solar cells: An overview of current status. *Renewable and Sustainable Energy Reviews*, **2018**, 91, 1025-1044	16.2	95

97	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	7.9	95
96	Pectin @ zirconium (IV) silicophosphate nanocomposite ion exchanger: Photo catalysis, heavy metal separation and antibacterial activity. *Chemical Engineering Journal*, **2015**, 267, 235-244	14.7	93
95	Polyacrylamide@Zr(IV) vanadophosphate nanocomposite: Ion exchange properties, antibacterial activity, and photocatalytic behavior. *Journal of Industrial and Engineering Chemistry*, **2016**, 33, 201-208	6.3	87
94	Polyaniline zirconium (IV) silicophosphate nanocomposite for remediation of methylene blue dye from waste water. *Journal of Molecular Liquids*, **2014**, 190, 139-145	6	86
93	ZnSe-WO 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	7.9	85
92	Preparation of a novel chitosan-g-poly(acrylamide)/Zn nanocomposite hydrogel and its applications for controlled drug delivery of ofloxacin. *International Journal of Biological Macromolecules*, **2016**, 84, 340-8	7.9	83
91	Use of pectin-thorium (IV) tungstomolybdate nanocomposite for photocatalytic degradation of methylene blue. *Carbohydrate Polymers*, **2013**, 96, 277-83	10.3	83
90	Efficient photocatalytic degradation of toxic dyes from aqueous environment using gelatin-Zr(IV) phosphate nanocomposite and its antimicrobial activity. *Colloids and Surfaces B: Biointerfaces*, **2017**, 157, 456-463	6	82
89	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	4.7	81
88	Fe3O4/ZnO/Si3N4 nanocomposite based photocatalyst for the degradation of dyes from aqueous solution. *Materials Letters*, **2020**, 278, 128359	3.3	81
87	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	14.7	79
86	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	7.9	76
85	Fabrication and characterization of Fe@MoPO nanoparticles: Ion exchange behavior and photocatalytic activity against malachite green. *Journal of Molecular Liquids*, **2016**, 219, 1137-1143	6	76
84	Impact of heavy metals and nanoparticles on aquatic biota. *Environmental Chemistry Letters*, **2018**, 16, 919-946	13.3	74
83	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	7.9	74
82	Kinetics, isotherm and thermodynamic investigations for the adsorption of Co(II) ion onto crystal violet modified amberlite IR-120 resin. *Ionics*, **2015**, 21, 1453-1459	2.7	73
81	Solar-driven photodegradation of 17-β-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	3.6	72
80	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	4.4	71

79	Recent advances in nano-Fenton catalytic degradation of emerging pharmaceutical contaminants. *Journal of Molecular Liquids*, **2019**, 290, 111177	6	63
78	Lanthanum/Cadmium/Polyaniline bimetallic nanocomposite for the photodegradation of organic pollutant. *Iranian Polymer Journal (English Edition)*, **2015**, 24, 1003-1013	2.3	62
77	A cellulose acetate based nanocomposite for photocatalytic degradation of methylene blue dye under solar light. *Ionics*, **2015**, 21, 1787-1793	2.7	61
76	Combined sorptional□photocatalytic remediation of dyes by polyaniline Zr(IV) selenotungstophosphate nanocomposite. *Toxicological and Environmental Chemistry*, **2015**, 97, 526-537	1.4	61
75	Nanocomposite pectin Zr(IV) selenotungstophosphate for adsorptional/photocatalytic remediation of methylene blue and malachite green dyes from aqueous system. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 957-964	6.3	61
74	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	5.7	60
73	Liquid phase synthesis of pectin□admium sulfide nanocomposite and its photocatalytic and antibacterial activity. *Journal of Molecular Liquids*, **2014**, 196, 107-112	6	59
72	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	6.3	56
71	Fabrication of nanocomposite polyaniline zirconium(IV) silicophosphate for photocatalytic and antimicrobial activity. *Journal of Alloys and Compounds*, **2014**, 588, 668-675	5.7	55
70	Pectin-c rosslinked -guar gum/SPION nanocomposite hydrogel for adsorption of m-cresol and o-chlorophenol. *Sustainable Chemistry and Pharmacy*, **2017**, 6, 96-106	3.9	55
69	Synthesis, characterization and antibacterial activity of cellulose acetate-tin (IV) phosphate nanocomposite. *Carbohydrate Polymers*, **2014**, 103, 221-7	10.3	54
68	Preparation, characterization, and ion exchange behavior of nanocomposite polyaniline zirconium(IV) selenotungstophosphate for the separation of toxic metal ions. *Ionics*, **2015**, 21, 1045-1055	2.7	53
67	Characterization of keratin microparticles from feather biomass with potent antioxidant and anticancer activities. *International Journal of Biological Macromolecules*, **2017**, 104, 189-196	7.9	52
66	Preparation, characterization and antimicrobial activity of biopolymer based nanocomposite ion exchanger pectin zirconium(IV) selenotungstophosphate: Application for removal of toxic metals. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 4482-4490	6.3	51
65	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	5.1	49
64	Rapid visible and solar photocatalytic Cr(VI) reduction and electrochemical sensing of dopamine using solution combustion synthesized ZnO□e2O3 nano heterojunctions: Mechanism Elucidation. *Ceramics International*, **2020**, 46, 12255-12268	5.1	49
63	Atrazine removal using chitin-cl-poly(acrylamide-co-itaconic acid) nanohydrogel: Isotherms and pH responsive nature. *Carbohydrate Polymers*, **2020**, 241, 116258	10.3	47
62	Niosome-based hydrogel of resveratrol for topical applications: An effective therapy for pain related disorder(s). *Biomedicine and Pharmacotherapy*, **2017**, 88, 480-487	7.5	46

61	Silicate glass matrix@CuO/CuVO p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. *Journal of Hazardous Materials*, **2021**, 402, 123790	12.8	45
60	Aerogels and metal□rganic frameworks for environmental remediation and energy production. *Environmental Chemistry Letters*, **2018**, 16, 797-820	13.3	44
59	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
58	ZnO:CNT assisted charge transport in PTB7:PCBM blend organic solar cell. *Journal of Alloys and Compounds*, **2018**, 748, 216-222	5.7	42
57	Algal biochar reinforced trimetallic nanocomposite as adsorptional/photocatalyst for remediation of malachite green from aqueous medium. *Journal of Molecular Liquids*, **2019**, 275, 499-509	6	42
56	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	6	42
55	In-situ crosslinked hydrogel based on amidated pectin/oxidized chitosan as potential wound dressing for skin repairing. *Carbohydrate Polymers*, **2021**, 251, 117005	10.3	40
54	A multifunctional nanocomposite pectin thorium(IV) tungstomolybdate for heavy metal separation and photoremediation of malachite green. *Desalination and Water Treatment*, **2016**, 57, 19443-19455		39
53	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	6	37
52	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	6.7	36
51	Polyamine-modified magnetic graphene oxide surface: Feasible adsorbent for removal of dyes. *Journal of Molecular Liquids*, **2019**, 289, 111118	6	36
50	Carbon nitride, metal nitrides, phosphides, chalcogenides, perovskites and carbides nanophotocatalysts for environmental applications. *Environmental Chemistry Letters*, **2019**, 17, 655-682	13.3	32
49	Remediation of anionic dye from aqueous system using bio-adsorbent prepared by microwave activation. *Environmental Technology (United Kingdom)*, **2018**, 39, 917-930	2.6	30
48	Synthesis, characterization and analytical application of cellulose acetate-tin (IV) molybdate nanocomposite ion exchanger: binary separation of heavy metal ions and antimicrobial activity. *Ionics*, **2015**, 21, 2069-2078	2.7	29
47	Preparation and characterization of pH-responsive guar gum microspheres. *International Journal of Biological Macromolecules*, **2013**, 62, 636-41	7.9	29
46	Solar active nano-Zn1□MgxFe2O4 as a magnetically separable sustainable photocatalyst for degradation of sulfadiazine antibiotic. *Journal of Molecular Liquids*, **2019**, 294, 111574	6	26
45	Fabrication of oxidized graphite supported La2O3/ZrO2 nanocomposite for the photoremediation of toxic fast green dye. *Journal of Molecular Liquids*, **2019**, 277, 738-748	6	23
44	Utilizing recycled LiFePO from batteries in combination with B@CN and CuFeO as sustainable nano-junctions for high performance degradation of atenolol. *Chemosphere*, **2018**, 209, 457-469	8.4	22

43	Carboxymethyl cellulose structured nano-adsorbent for removal of methyl violet from aqueous solution: isotherm and kinetic analyses. *Cellulose*, **2020**, 27, 3677-3691	5.5	21
42	Synthesis of polyaniline based composite material and its analytical applications for the removal of highly toxic Hg2+ metal ion: Antibacterial activity against E. coli. *Korean Journal of Chemical Engineering*, **2017**, 34, 1970-1979	2.8	21
41	Turmeric/polyvinyl alcohol Th(IV) phosphate electrospun fibers: Synthesis, characterization and antimicrobial studies. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 68, 407-414	5.3	20
40	Graphene oxide supported La/Co/Ni trimetallic nano-scale systems for photocatalytic remediation of 2-chlorophenol. *Journal of Molecular Liquids*, **2019**, 294, 111605	6	19
39	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	6.7	19
38	Emerging novel polymeric adsorbents for removing dyes from wastewater: A comprehensive review and comparison with other adsorbents. *Environmental Research*, **2021**, 201, 111534	7.9	19
37	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	6	18
36	Nickel sulphide nano-composite assisted hole transport in thin film polymer solar cells. *Solar Energy* , **2020**, 195, 310-317	6.8	18
35	Designing of bentonite based nanocomposite hydrogel for the adsorptive removal and controlled release of ampicillin. *Journal of Molecular Liquids*, **2020**, 319, 114166	6	16
34	Exclusion of Organic Dye Using Neoteric Activated Carbon Prepared from Cornulaca monacantha Stem: Equilibrium and Thermodynamics Studies. *Materials Science Forum*, **2016**, 875, 1-15	0.4	16
33	Ag0-Ag2O embedded nanocomposite hydrogel for adsorption-coupled-photocatalytic removal of triclosan. *Materials Letters*, **2020**, 276, 128169	3.3	15
32	AgO/MgO/FeO@Si3N4 nanocomposite with robust adsorption capacity for tetracycline antibiotic removal from aqueous system. *Advanced Powder Technology*, **2020**, 31, 4310-4318	4.6	15
31	Gum Acacia-cl-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	3.9	14
30	Solid-state synthesis strategy of hierarchically-structured BiOCl desert-roses for the selective detection of C2H5OH. *Journal of Alloys and Compounds*, **2019**, 778, 532-541	5.7	14
29	Synthesis, Characterization and Environmental Applications of a New Bio-Composite Gelatin-Zr(IV) Phosphate. *Journal of Polymers and the Environment*, **2018**, 26, 1415-1424	4.5	13
28	Facile fabrication of chitosan-cl-poly(AA)/ZrPO4 nanocomposite for remediation of rhodamine B and antimicrobial activity. *Journal of King Saud University - Science*, **2020**, 32, 1359-1365	3.6	13
27	Fabrication, Characterization and Cytotoxicity of Guar Gum/Copper Oxide Nanocomposite: Efficient Removal of Organic Pollutant. *Materials Science Forum*, **2016**, 842, 88-102	0.4	12
26	Environmental friendly and robust Mg0.5-xCuxZn0.5Fe2O4 spinel nanoparticles for visible light driven degradation of Carbamazepine: Band shift driven by dopants. *Materials Letters*, **2021**, 284, 129005	3.3	12

25	Highly Efficient Polydopamine-coated Poly(methyl methacrylate) Nanofiber Supported Platinum?nickel Bimetallic Catalyst for Formaldehyde Oxidation at Room Temperature. *Polymers*, **2019**, 11,	4.5	11
24	Fe/La/Zn nanocomposite with graphene oxide for photodegradation of phenylhydrazine. *Journal of Molecular Liquids*, **2019**, 285, 362-374	6	11
23	Sodium Dodecyl Sulphate-Supported Nanocomposite as Drug Carrier System for Controlled Delivery of Ondansetron. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	11
22	Electrospun ferric ceria nanofibers blended with MWCNTs for high-performance electrochemical detection of uric acid. *Ceramics International*, **2020**, 46, 9050-9064	5.1	11
21	Preparation and Characterization of Gum Acacia/Ce(IV)MoPO4 Nanocomposite Ion Exchanger for Photocatalytic Degradation of Methyl Violet Dye. *Journal of Inorganic and Organometallic Polymers and Materials*, **2019**, 29, 1171-1183	3.2	10
20	A biopolymer-based hybrid cation exchanger pectin cerium(IV) iodate: synthesis, characterization, and analytical applications. *Desalination and Water Treatment*, **2014**, 1-8		10
19	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	4.6	10
18	Photocatalytic degradation of environmental pollutant using nickel and cerium ions substituted Co0.6Zn0.4Fe2O4 nanoferrites. *Earth Systems and Environment*, **2021**, 5, 399	7.5	10
17	Recent Advances in Hydrophobic Modification of Nanocellulose. *Current Organic Chemistry*, **2021**, 25, 417-436	1.7	9
16	Tin (IV) phosphate/poly(gelatin-cl-alginate) nanocomposite: Photocatalysis and fabrication of potentiometric sensor forPb (II). *Materials Today Communications*, **2018**, 14, 282-293	2.5	8
15	Microwave induced synthesis of graft copolymer of binary vinyl monomer mixtures onto delignified Grewia optiva fiber: application in dye removal. *Frontiers in Chemistry*, **2014**, 2, 59	5	8
14	Facile Fabrication of Hierarchical rGO/PANI@PtNi Nanocomposite via Microwave-Assisted Treatment for Non-Enzymatic Detection of Hydrogen Peroxide. *Nanomaterials*, **2019**, 9,	5.4	7
13	Visibly Active FeO/ZnO@PANI Magnetic Nano-photocatalyst for the Degradation of 3-Aminophenol. *Topics in Catalysis*, **2020**, 63, 1302-1313	2.3	6
12	Environmental Pollution Remediation via Photocatalytic Degradation of Sulfamethoxazole from Waste Water Using Sustainable Ag2S/Bi2S3/g-C3N4 Nano-Hybrids. *Earth Systems and Environment*,1	7.5	4
11	Graft Copolymerization of Acrylonitrile and Ethyl Acrylate onto Pinus Roxburghii Wood Surface Enhanced Physicochemical Properties and Antibacterial Activity. *Journal of Chemistry*, **2020**, 2020, 1-16	2.3	3
10	Competition between Physical Cross-Linking and Phase Transition Temperature in Blends Based on Poly(N-isopropylacrylamide-co-N-ethylacrylamide) Copolymers and Carboxymethyl Cellulose. *Macromolecular Chemistry and Physics*, **2020**, 221, 2000081	2.6	3
9	Activated Carbon as Superadsorbent and Sustainable Material for Diverse Applications. *Adsorption Science and Technology*, **2022**, 2022, 1-21	3.6	3
8	Fabrication and Characterization of Xanthan Gum-cl-poly(acrylamide-co-alginic acid) Hydrogel for Adsorption of Cadmium Ions from Aqueous Medium.. *Gels*, **2021**, 8,	4.2	3

7	Metallic and bimetallic phosphides-based nanomaterials for photocatalytic hydrogen production and water detoxification: a review. *Environmental Chemistry Letters*,1	13.3	2
6	ESTIMATION OF ARSENIC(III) IN ORGANIC ARSINES AND ITS COMPLEXES USING POTASSIUM BROMATE AND POTASSIUM IODATE AS OXIDANTS. *Journal of the Chilean Chemical Society*, **2016**, 61, 2940-2948	2.5	2
5	Trimetallic@Cyclodextrin Nanocomposite: Photocatalyst for Degradation of Amoxicillin and Catalyst for Esterification Reactions. *Journal of Chemistry*, **2021**, 2021, 1-14	2.3	2
4	Effect of Cross-Linker in Poly(N-Isopropyl Acrylamide)-Grafted-Gelatin Gels Prepared by Microwave-Assisted Synthesis. *ChemistrySelect*, **2019**, 4, 10346-10351	1.8	1
3	Sol–gel synthesis of polyacrylamide-stannic arsenate nanocomposite ion exchanger: binary separations and enhanced photo-catalytic activity. *SN Applied Sciences*, **2019**, 1, 1	1.8	0
2	Fabrication and Characterization of Polysorbate/Ironmolybdophosphate Nanocomposite: Ion Exchange Properties and pH-responsive Drug Carrier System for Methylcobalamin. *Current Analytical Chemistry*, **2020**, 16, 138-148	1.7	0
1	Ag2O–Al2O3–ZrO2 Trimetallic Nanocatalyst for High Performance Photodegradation of Nicosulfuron Herbicide. *Topics in Catalysis*, **2020**, 63, 1272-1285	2.3	0