

Mallikarjuna N Nadagouda

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238
papers

13,450
citations

58
h-index

110
g-index

252
ext. papers

15,460
ext. citations

7.4
avg, IF

6.99
L-index

#	Paper	IF	Citations
238	Recent advances on chitosan-based micro- and nanoparticles in drug delivery. <i>Journal of Controlled Release</i> , 2004 , 100, 5-28	11.7	1905
237	Green synthesis of silver and palladium nanoparticles at room temperature using coffee and tea extract. <i>Green Chemistry</i> , 2008 , 10, 859	10	521
236	Degradation of bromothymol blue by greener nano-scale zero-valent iron synthesized using tea polyphenols. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8671		407
235	Microwave-assisted green synthesis of silver nanostructures. <i>Accounts of Chemical Research</i> , 2011 , 44, 469-78	24.3	380
234	The role of nanomaterials as effective adsorbents and their applications in wastewater treatment. <i>Journal of Nanostructure in Chemistry</i> , 2017 , 7, 1-14	7.6	299
233	Semi-interpenetrating polymer network microspheres of gelatin and sodium carboxymethyl cellulose for controlled release of ketorolac tromethamine. <i>Carbohydrate Polymers</i> , 2006 , 65, 243-252	10.3	284
232	Phosphate adsorption using modified iron oxide-based sorbents in lake water: Kinetics, equilibrium, and column tests. <i>Chemical Engineering Journal</i> , 2016 , 284, 1386-1396	14.7	272
231	Greener Techniques for the Synthesis of Silver Nanoparticles Using Plant Extracts, Enzymes, Bacteria, Biodegradable Polymers, and Microwaves. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 703-712	8.3	270
230	Synthesis, characterization and biocompatibility of "green" synthesized silver nanoparticles using tea polyphenols. <i>Nanoscale</i> , 2010 , 2, 763-70	7.7	270
229	Polymeric graphitic carbon nitride (g-CN)-based semiconducting nanostructured materials: Synthesis methods, properties and photocatalytic applications. <i>Journal of Environmental Management</i> , 2019 , 238, 25-40	7.9	232
228	In vitro biocompatibility of nanoscale zerovalent iron particles (NZVI) synthesized using tea polyphenols. <i>Green Chemistry</i> , 2010 , 12, 114-122	10	224
227	Synthesis of Silver and Gold Nanoparticles Using Antioxidants from Blackberry, Blueberry, Pomegranate, and Turmeric Extracts. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1717-1723	8.3	190
226	Nanosized magnesium oxide as catalyst for the rapid and green synthesis of substituted 2-amino-2-chronenes. <i>Tetrahedron</i> , 2007 , 63, 3093-3097	2.4	188
225	Polymeric hydrogels for oral insulin delivery. <i>Journal of Controlled Release</i> , 2013 , 165, 129-38	11.7	187
224	Green and controlled synthesis of gold and platinum nanomaterials using vitamin B2: density-assisted self-assembly of nanospheres, wires and rods. <i>Green Chemistry</i> , 2006 , 8, 516	10	185
223	Membrane-based separation of potential emerging pollutants. <i>Separation and Purification Technology</i> , 2019 , 210, 850-866	8.3	185
222	Visible light-sensitized S, N and C co-doped polymorphic TiO ₂ for photocatalytic destruction of microcystin-LR. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 614-621	21.8	174

221	A Greener Synthesis of Core (Fe, Cu)-Shell (Au, Pt, Pd, and Ag) Nanocrystals Using Aqueous Vitamin C. <i>Crystal Growth and Design</i> , 2007 , 7, 2582-2587	3.5	171
220	Synthesis of thermally stable carboxymethyl cellulose/metal biodegradable nanocomposites for potential biological applications. <i>Biomacromolecules</i> , 2007 , 8, 2762-7	6.9	152
219	Microwave-Assisted Chemistry: a Rapid and Sustainable Route to Synthesis of Organics and Nanomaterials. <i>Australian Journal of Chemistry</i> , 2009 , 62, 16	1.2	149
218	A review on frontiers in plasmonic nano-photocatalysts for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10453-10472	6.7	148
217	A comparative study on the basis of adsorption capacity between CNTs and activated carbon as adsorbents for removal of noxious synthetic dyes: a review. <i>Journal of Nanostructure in Chemistry</i> , 2015 , 5, 227-236	7.6	143
216	Degradation of atrazine by ZnxCu _{1-x} Fe ₂ O ₄ nanomaterial-catalyzed sulfite under UV light irradiation: Green strategy to generate SO ₄ ²⁻ . <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 380-392	21.8	141
215	Microwave-Assisted Shape-Controlled Bulk Synthesis of Noble Nanocrystals and Their Catalytic Properties. <i>Crystal Growth and Design</i> , 2007 , 7, 686-690	3.5	130
214	Polysaccharide-based micro/nanohydrogels for delivering macromolecular therapeutics. <i>Journal of Controlled Release</i> , 2014 , 193, 162-73	11.7	129
213	Polymeric micelles: Basic research to clinical practice. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 249-268	6.5	129
212	Micelles as Soil and Water Decontamination Agents. <i>Chemical Reviews</i> , 2016 , 116, 6042-74	68.1	117
211	Effects from filtration, capping agents, and presence/absence of food on the toxicity of silver nanoparticles to <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2742-50	3.8	109
210	Self-assembly of palladium nanoparticles: synthesis of nanobelts, nanoplates and nanotrees using vitamin B ₁ , and their application in carbon-carbon coupling reactions. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2026		108
209	Green Synthesis of Au Nanostructures at Room Temperature Using Biodegradable Plant Surfactants. <i>Crystal Growth and Design</i> , 2009 , 9, 4979-4983	3.5	106
208	Efficient degradation of atrazine with porous sulfurized Fe ₂ O ₃ as catalyst for peroxymonosulfate activation. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118056	21.8	104
207	Cobalt ferrite nanoparticles with controlled composition-peroxymonosulfate mediated degradation of 2-phenylbenzimidazole-5-sulfonic acid. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 266-279	21.8	102
206	Hydrothermal synthesis of photoactive nitrogen- and boron- codoped TiO ₂ nanoparticles for the treatment of bisphenol A in wastewater: Synthesis, photocatalytic activity, degradation byproducts and reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 598-611	21.8	98
205	Microwave-Assisted Shape-Controlled Bulk Synthesis of Ag and Fe Nanorods in Poly(ethylene glycol) Solutions. <i>Crystal Growth and Design</i> , 2008 , 8, 291-295	3.5	97
204	The synthesis and applications of a micro-pine-structured nanocatalyst. <i>Chemical Communications</i> , 2008 , 6318-20	5.8	96

203	Ruthenium on chitosan: a recyclable heterogeneous catalyst for aqueous hydration of nitriles to amides. <i>Green Chemistry</i> , 2014 , 16, 2122	10	95
202	Nanoscale TiO ₂ films and their application in remediation of organic pollutants. <i>Coordination Chemistry Reviews</i> , 2016 , 306, 43-64	23.2	92
201	Synthesis, characterization and low frequency AC conduction of polyaniline/niobium pentoxide composites. <i>Synthetic Metals</i> , 2006 , 156, 1139-1147	3.6	92
200	Molecular modeling on the binary blend compatibility of poly(vinyl alcohol) and poly(methyl methacrylate): an atomistic simulation and thermodynamic approach. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15611-20	3.4	91
199	Blend membranes of chitosan and poly(vinyl alcohol) in pervaporation dehydration of isopropanol and tetrahydrofuran. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 1918-1926	2.9	87
198	Magnetically retrievable catalysts for asymmetric synthesis. <i>Coordination Chemistry Reviews</i> , 2015 , 287, 137-156	23.2	85
197	Cyclodextrin-based siRNA delivery nanocarriers: a state-of-the-art review. <i>Expert Opinion on Drug Delivery</i> , 2011 , 8, 1455-68	8	83
196	Bulk Synthesis of Monodisperse Ferrite Nanoparticles at Water/Organic Interfaces under Conventional and Microwave Hydrothermal Treatment and Their Surface Functionalization. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18399-18404	3.8	83
195	Photocatalytic C-H Activation of Hydrocarbons over 3N ₄ . <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2333-2336	8.3	78
194	Selective Oxidation of Alcohols Using Photoactive 3N ₄ . <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1094-1098	8.3	77
193	A green chemistry-based classification model for the synthesis of silver nanoparticles. <i>Green Chemistry</i> , 2015 , 17, 2825-2839	10	77
192	PEG-assisted synthesis of crystal TiO ₂ nanowires with high specific surface area for enhanced photocatalytic degradation of atrazine. <i>Chemical Engineering Journal</i> , 2015 , 268, 170-179	14.7	76
191	Magnetic graphitic carbon nitride: its application in the C-H activation of amines. <i>Chemical Communications</i> , 2015 , 51, 15554-7	5.8	74
190	Novel high dielectric constant nanocomposites of polyaniline dispersed with 3 nanoparticles. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1868-1874	2.9	73
189	Magnetic 3N ₄ : A Photoactive Catalyst for the Hydrogenation of Alkenes and Alkynes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1661-1664	8.3	68
188	A comprehensive investigation of copper pitting corrosion in a drinking water distribution system. <i>Corrosion Science</i> , 2010 , 52, 1927-1938	6.8	67
187	The effect of basic pH and carbonate ion on the mechanism of photocatalytic destruction of cylindrospermopsin. <i>Water Research</i> , 2015 , 73, 353-61	12.5	65
186	Electrode materials for lithium-ion batteries. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 182-187	5.2	64

185	Membranes for dehydration of alcohols via pervaporation. <i>Journal of Environmental Management</i> , 2019 , 242, 415-429	7.9	62
184	Hydroxylation of Benzene C-H Activation Using Bimetallic CuAg@g-CN. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3637-3640	8.3	60
183	Sustainable pathway to furanics from biomass via heterogeneous organo-catalysis. <i>Green Chemistry</i> , 2017 , 19, 164-168	10	60
182	Pervaporation Separation of Water/Ethanol Mixtures Using Organic/Inorganic Nanocomposite Membranes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14731-14744	3.8	60
181	Oxidative esterification via photocatalytic C-H activation. <i>Green Chemistry</i> , 2016 , 18, 251-254	10	59
180	Carbon-coated magnetic palladium: applications in partial oxidation of alcohols and coupling reactions. <i>Green Chemistry</i> , 2014 , 16, 4333	10	58
179	Microporous alumino-phosphate (ALPO4-5) molecular sieve-loaded novel sodium alginate composite membranes for pervaporation dehydration of aqueous/organic mixtures near their azeotropic compositions?. <i>Journal of Membrane Science</i> , 2006 , 282, 473-483	9.6	56
178	The fabrication of innovative single crystal N,F-codoped titanium dioxide nanowires with enhanced photocatalytic activity for degradation of atrazine. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 550-558	21.8	55
177	Silver-based antibacterial surfaces for drinking water disinfection: an overview. <i>Current Opinion in Chemical Engineering</i> , 2014 , 3, 25-29	5.4	55
176	Controlled release of therapeutics using interpenetrating polymeric networks. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 669-88	8	54
175	An innovative zinc oxide-coated zeolite adsorbent for removal of humic acid. <i>Journal of Hazardous Materials</i> , 2016 , 313, 283-90	12.8	54
174	Visible light mediated upgrading of biomass to biofuel. <i>Green Chemistry</i> , 2016 , 18, 1327-1331	10	53
173	Prediction of physical properties of nanofiltration membranes for neutral and charged solutes. <i>Desalination</i> , 2011 , 280, 174-182	10.3	52
172	Oral insulin delivery using deoxycholic acid conjugated PEGylated polyhydroxybutyrate co-polymeric nanoparticles. <i>Nanomedicine</i> , 2015 , 10, 1569-83	5.6	50
171	Microwave-Assisted Synthesis of Crosslinked Poly(vinyl alcohol) Nanocomposites Comprising Single-Walled Carbon Nanotubes, Multi-Walled Carbon Nanotubes, and Buckminsterfullerene. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 842-847	4.8	50
170	Comparison of the pervaporation separation of a water/acetone nitrile mixture with zeolite-filled sodium alginate and poly(vinyl alcohol)/polyaniline semi-interpenetrating polymer network membranes. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1968-1978	2.9	50
169	Preparation of Novel Metallic and Bimetallic Cross-Linked Poly(vinyl alcohol) Nanocomposites under Microwave Irradiation. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 465-472	4.8	49
168	Titanium-based zeolitic imidazolate framework for chemical fixation of carbon dioxide. <i>Green Chemistry</i> , 2016 , 18, 4855-4858	10	49

167	Guar gum as platform for the oral controlled release of therapeutics. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 753-66	8	48
166	Green Synthesis of Ag and Pd Nanospheres, Nanowires, and Nanorods Using VitaminB2: Catalytic Polymerisation of Aniline and Pyrrole. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-8	3.2	47
165	Taguchi L9 (34) orthogonal array study based on methylene blue removal by single-walled carbon nanotubes-amine: Adsorption optimization using the experimental design method, kinetics, equilibrium and thermodynamics. <i>Journal of Molecular Liquids</i> , 2020 , 298, 112001	6	47
164	Nanomaterials in the environment, human exposure pathway, and health effects: A review. <i>Science of the Total Environment</i> , 2021 , 759, 143470	10.2	47
163	A 3D graphene-based biosensor as an early microcystin-LR screening tool in sources of drinking water supply. <i>Electrochimica Acta</i> , 2017 , 236, 319-327	6.7	46
162	Biomass utilization and production of biofuels from carbon neutral materials. <i>Environmental Pollution</i> , 2021 , 276, 116731	9.3	46
161	Polymeric blend nanocomposite membranes for ethanol dehydrationEffect of morphology and membrane-solvent interactions. <i>Journal of Membrane Science</i> , 2013 , 430, 321-329	9.6	43
160	Synthesis and characterization of novel polyureas based on benzimidazoline-2-one and benzimidazoline-2-thione hard segments. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 576-583	2.9	43
159	Controlled release of diclofenac sodium and ibuprofen through beads of sodium alginate and hydroxy ethyl cellulose blends. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5708-5718	2.9	43
158	Room temperature synthesis of biodiesel using sulfonated graphitic carbon nitride. <i>Scientific Reports</i> , 2016 , 6, 39387	4.9	42
157	Microplastics in the environment: Occurrence, perils, and eradication. <i>Chemical Engineering Journal</i> , 2021 , 408, 127317	14.7	42
156	Hierarchical hybrid carbon nano-structures as robust and reusable adsorbents: Kinetic studies with model dye compound. <i>Chemical Engineering Journal</i> , 2015 , 268, 197-207	14.7	40
155	UV-visible light-activated Ag-decorated, monodisperse TiO ₂ aggregates for treatment of the pharmaceutical oxytetracycline. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 11781-93	5.1	39
154	Synthesis and characterization of crosslinked polyurethane dispersions based on hydroxylated polyesters. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 368-380	2.9	39
153	Co-constructive development of a green chemistry-based model for the assessment of nanoparticles synthesis. <i>European Journal of Operational Research</i> , 2018 , 264, 472-490	5.6	38
152	Cellulose acetate-coated Al ₂ O ₃ alumina ceramic composite tubular membranes for wastewater treatment. <i>Desalination</i> , 2011 , 281, 348-353	10.3	38
151	Adsorption of Pb(2+) ions on nanosized gamma-Fe(2)O(3): formation of surface ternary complexes on ligand complexation. <i>Talanta</i> , 2003 , 60, 139-47	6.2	38
150	Identification of TiO ₂ photocatalytic destruction byproducts and reaction pathway of cylindrospermopsin. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 591-598	21.8	36

149	Sustainable Strategy Utilizing Biomass: Visible-Light-Mediated Synthesis of γ -Valerolactone. <i>ChemCatChem</i> , 2016 , 8, 690-693	5.2	35
148	Porous nitrogen-enriched carbonaceous material from marine waste: chitosan-derived carbon nitride catalyst for aerial oxidation of 5-hydroxymethylfurfural (HMF) to 2,5-furandicarboxylic acid. <i>Scientific Reports</i> , 2017 , 7, 13596	4.9	34
147	Synthesis of different biofuels from livestock waste materials and their potential as sustainable feedstocks [A review]. <i>Energy Conversion and Management</i> , 2021 , 236, 114038	10.6	34
146	Green approach to bulk and template-free synthesis of thermally stable reduced polyaniline nanofibers for capacitor applications. <i>Green Chemistry</i> , 2007 , 9, 632	10	33
145	Photocatalytic C-H Activation and Oxidative Esterification Using Pd@g-CN. <i>Catalysis Today</i> , 2018 , 309, 248-252	5.3	32
144	Room Temperature Bulk Synthesis of Silver Nanocables Wrapped with Polypyrrole. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 2106-2111	4.8	32
143	Acrylamide-grafted-acacia gum polymer matrix tablets as erosion-controlled drug delivery systems. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2245-2253	2.9	32
142	Phosphate removal using modified Bayoxide \square E33 adsorption media. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 96-107	4.2	31
141	Exploration of nanocomposite membranes composed of phosphotungstic acid in sodium alginate for separation of aqueous \square organic mixtures by pervaporation. <i>Separation and Purification Technology</i> , 2013 , 113, 64-74	8.3	31
140	Noble Metal Decoration and Alignment of Carbon Nanotubes in Carboxymethyl Cellulose. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 155-159	4.8	31
139	Adsorption of Ammonium Ions onto Multi-Walled Carbon Nanotubes. <i>Studia Universitatis Babeş-Bolyai Chimia</i> , 2017 , 62, 233-245	1	31
138	Adsorptive interaction of peroxymonosulfate with graphene and catalytic assessment via non-radical pathway for the removal of aqueous pharmaceuticals. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121340	12.8	31
137	Effect of surface properties of copper-modified commercial titanium dioxide photocatalysts on hydrogen production through photoreforming of alcohols. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28349-28362	6.7	30
136	The spatial distribution of pollutants in pipe-scale of large-diameter pipelines in a drinking water distribution system. <i>Journal of Hazardous Materials</i> , 2016 , 317, 27-35	12.8	30
135	Monitoring of 2-butanone using a Ag \square Cu bimetallic alloy nanoscale electrochemical sensor. <i>RSC Advances</i> , 2015 , 5, 44427-44434	3.7	29
134	A photoactive bimetallic framework for direct aminoformylation of nitroarenes. <i>Green Chemistry</i> , 2016 , 18, 1019-1022	10	28
133	Influence of operating parameters on surface properties of RF glow discharge oxygen plasma treated TiO \square /PET film for biomedical application. <i>Materials Science and Engineering C</i> , 2014 , 36, 309-19	8.3	28
132	Green Photocatalysis for Degradation of Organic Contaminants: A Review. <i>Current Organic Chemistry</i> , 2013 , 17, 2338-2348	1.7	28

131	Novel carbohydrate polymeric blend membranes in pervaporation dehydration of acetic acid. <i>Carbohydrate Polymers</i> , 2006 , 66, 345-351	10.3	28
130	Benign zinc oxide betaine-modified biochar nanocomposites for phosphate removal from aqueous solutions. <i>Journal of Environmental Management</i> , 2020 , 272, 111048	7.9	28
129	Robustness analysis of a green chemistry-based model for the classification of silver nanoparticles synthesis processes. <i>Journal of Cleaner Production</i> , 2017 , 162, 938-948	10.3	27
128	Degradation of cylindrospermopsin by using polymorphic titanium dioxide under UV-Vis irradiation. <i>Catalysis Today</i> , 2014 , 224, 49-55	5.3	27
127	Aerobic oxidation of alcohols in visible light on Pd-grafted Ti cluster. <i>Tetrahedron</i> , 2017 , 73, 5577-5580	2.4	27
126	Ultraviolet-Visible Light Sensitive High Surface Area Phosphorous-Fluorine Co-Doped TiO ₂ Nanoparticles for the Degradation of Atrazine in Water. <i>Environmental Engineering Science</i> , 2014 , 31, 435-446	2	26
125	Effects of Dufour and Soret mechanisms on MHD mixed convective-radiative non-Newtonian liquid flow and heat transfer over a porous sheet. <i>Thermal Science and Engineering Progress</i> , 2020 , 16, 100459	3.6	26
124	Design, synthesis, molecular docking and 3D-QSAR studies of potent inhibitors of enoyl-acyl carrier protein reductase as potential antimycobacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2014 , 71, 199-218	6.8	25
123	A review of 3D printing techniques for environmental applications. <i>Current Opinion in Chemical Engineering</i> , 2020 , 28, 173-178	5.4	25
122	Removal of phosphate using calcium and magnesium-modified iron-based adsorbents. <i>Materials Chemistry and Physics</i> , 2017 , 198, 115-124	4.4	24
121	Solar light-assisted remediation of domestic wastewater by NB-TiO ₂ nanoparticles for potable reuse. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118807	21.8	24
120	Development of chitosan-guar gum semi-interpenetrating polymer network microspheres for controlled release of cefadroxil. <i>Designed Monomers and Polymers</i> , 2006 , 9, 491-501	3.1	23
119	Combustion Derived Ultrafine Fe ₂ O ₃ Structure, morphology and thermal studies. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003 , 71, 915-926	4.1	23
118	Environmentally friendly synthesized and magnetically recoverable designed ferrite photo-catalysts for wastewater treatment applications. <i>Journal of Hazardous Materials</i> , 2020 , 381, 121200	12.8	23
117	Titanium dioxide-based antibacterial surfaces for water treatment. <i>Current Opinion in Chemical Engineering</i> , 2016 , 11, 46-51	5.4	22
116	Efficient degradation of lindane by visible and simulated solar light-assisted S-TiO ₂ /peroxymonosulfate process: Kinetics and mechanistic investigations. <i>Molecular Catalysis</i> , 2017 , 428, 9-16	3.3	22
115	Sequential interpenetrating polymer network hydrogel microspheres of poly(methacrylic acid) and poly(vinyl alcohol) for oral controlled drug delivery to intestine. <i>Journal of Microencapsulation</i> , 2008 , 25, 228-40	3.4	22
114	Lead adsorption study on combustion derived Fe ₂ O ₃ surface. <i>Bulletin of Materials Science</i> , 2010 , 33, 1-6	1.7	21

113	Fixation of carbon dioxide into dimethyl carbonate over titanium-based zeolitic thiophene-benzimidazolate framework. <i>Scientific Reports</i> , 2017 , 7, 655	4.9	20
112	Ultra-small fluorescent bile acid conjugated PHBBEG block copolymeric nanoparticles: synthesis, characterization and cellular uptake. <i>RSC Advances</i> , 2013 , 3, 7064	3.7	20
111	Magnetically recoverable TiO-WO photocatalyst to oxidize bisphenol A from model wastewater under simulated solar light. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 12589-12598	5.1	20
110	Preparation and characterization of novel semi-interpenetrating polymer network hydrogel microspheres of chitosan and hydroxypropyl cellulose for controlled release of chlorothiazide. <i>Journal of Microencapsulation</i> , 2009 , 26, 27-36	3.4	20
109	A rapid flow strategy for the oxidative cyanation of secondary and tertiary amines via C-H activation. <i>Scientific Reports</i> , 2017 , 7, 16311	4.9	19
108	Novel Pd based catalyst for the removal of organic and emerging contaminants. <i>RSC Advances</i> , 2012 , 2, 7540	3.7	19
107	A review on 3D printing techniques for medical applications. <i>Current Opinion in Chemical Engineering</i> , 2020 , 28, 152-157	5.4	19
106	Lead Particle Size Fractionation and Identification in Newark, New Jersey's Drinking Water. <i>Environmental Science & Technology</i> , 2020 , 54, 13672-13679	10.3	19
105	Cobalt Ferrite from Citrate Precursor by Self-Propagating Combustion Reaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003 , 74, 819-826	4.1	18
104	Novel franklinite-like synthetic zinc-ferrite redox nanomaterial: synthesis, and evaluation for degradation of diclofenac in water. <i>Applied Catalysis B: Environmental</i> , 2020 , 275, 119098-119098	21.8	18
103	Visible light-mediated and water-assisted selective hydrodeoxygenation of lignin-derived guaiacol to cyclohexanol. <i>Green Chemistry</i> , 2019 , 21, 1253-1257	10	17
102	Electrically modulated transport of diclofenac salts through hydrogels of sodium alginate, carbopol, and their blend polymers. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 301-311	2.9	17
101	Near UV-Irradiation of CuOx-Impregnated TiO2 Providing Active Species for H2 Production Through Methanol Photoreforming. <i>ChemCatChem</i> , 2019 , 11, 4314-4326	5.2	16
100	Degradation profiles of polyesterurethane (hydroxylated polyester/diphenylmethane diisocyanate) and polyestermelamine (hydroxylated polyester/hexamethoxymethylmelamine) coatings: An accelerated weathering study. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1069-1081	2.9	16
99	Per- and polyfluoroalkyl substances in water and wastewater: A critical review of their global occurrence and distribution. <i>Science of the Total Environment</i> , 2021 , 151003	10.2	16
98	Identification and removal of micro- and nano-plastics: Efficient and cost-effective methods. <i>Chemical Engineering Journal</i> , 2021 , 421, 129816-129816	14.7	16
97	Design, synthesis of quinolinyl Schiff bases and azetidinones as enoyl ACP-reductase inhibitors. <i>Medicinal Chemistry Research</i> , 2015 , 24, 3892-3911	2.2	15
96	Synthesis, biological evaluation and in silico molecular modeling of pyrrolyl benzohydrazide derivatives as enoyl ACP reductase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017 , 126, 286-297	6.8	15

95	Suppressing NOM access to controlled porous TiO ₂ particles enhances the decomposition of target water contaminants. <i>Catalysis Communications</i> , 2013 , 41, 79-82	3.2	15
94	A study on Fe ₂ O ₃ loaded poly(methyl methacrylate) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 2551-2554	2.9	15
93	Comparative toxicity reduction potential of UV/sodium percarbonate and UV/hydrogen peroxide treatments for bisphenol A in water: An integrated analysis using chemical, computational, biological, and metabolomic approaches. <i>Water Research</i> , 2021 , 190, 116755	12.5	15
92	Photocatalytic carbon dioxide reduction: Exploring the role of ultrathin 2D graphitic carbon nitride (g-C ₃ N ₄). <i>Chemical Engineering Journal</i> , 2021 , 425, 131402	14.7	15
91	Silver Trees: Chemistry on a TEM Grid. <i>Australian Journal of Chemistry</i> , 2009 , 62, 260	1.2	14
90	Effect of coexcipients on drug release and floating property of nifedipine hollow microspheres: A novel gastro retentive drug delivery system. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 486-494	2.9	14
89	Novel microwave-driven synthesis of hydrophilic polyvinylidene fluoride/polyacrylic acid (PVDF/PAA) membranes and decoration with nano zero-valent-iron (nZVI) for water treatment applications. <i>Journal of Membrane Science</i> , 2021 , 620, 118817	9.6	14
88	Activation of inorganic peroxides with magnetic graphene for the removal of antibiotics from wastewater. <i>Environmental Science: Nano</i> , 2021 , 8, 960-977	7.1	14
87	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H ₂ generation and quantum efficiency at versatile photocatalytic conditions. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125359	12.8	14
86	The copper/biotinamide complex: sustainable applications in coupling and cycloaddition reactions. <i>Green Chemistry</i> , 2015 , 17, 1243-1248	10	13
85	Phosphate recovery from water using cellulose enhanced magnesium carbonate pellets: Kinetics, isotherms, and desorption. <i>Chemical Engineering Journal</i> , 2018 , 352, 612-624	14.7	13
84	Pervaporation separation of water/isopropanol mixtures using silicotungstic acid loaded sulfonated poly(ether ether ketone) composite membranes. <i>RSC Advances</i> , 2014 , 4, 52571-52582	3.7	13
83	Expeditious Synthesis of Noble Metal Nanoparticles Using Vitamin B12 under Microwave Irradiation. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 415-426	2.6	13
82	Characteristics of pipe-scale in the pipes of an urban drinking water distribution system in eastern China. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 715-726	1.4	13
81	Synthesis, evaluation and in silico molecular modeling of pyrrolyl-1,3,4-thiadiazole inhibitors of InhA. <i>Bioorganic Chemistry</i> , 2015 , 59, 151-67	5.1	12
80	Removal of Perfluorooctanesulfonic Acid in Water by Combining Zerovalent Iron Particles with Common Oxidants. <i>Environmental Engineering Science</i> , 2020 , 37, 472-481	2	12
79	Proton conducting properties of nanocomposite membranes of chitosan. <i>Chemical Engineering Journal</i> , 2012 , 189-190, 1-4	14.7	12
78	Degradation profiles of polyester-urethane (HP-MDI) and polyester-melamine (HP-HMMM) coatings: A thermal study. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 518-526	2.9	12

77	Synthesis and characterization of magnetic manganese ferrites. <i>Materials Science for Energy Technologies</i> , 2019 , 2, 150-160	5.2	11
76	Robust nanocatalyst membranes for degradation of atrazine in water. <i>Journal of Water Process Engineering</i> , 2018 , 25, 15-21	6.7	11
75	Dextrose-templated microwave-assisted combustion synthesis of spongy metal oxides. <i>Smart Materials and Structures</i> , 2006 , 15, 1260-1265	3.4	11
74	Remediation of per- and polyfluoroalkyls (PFAS) via electrochemical methods. <i>Chemical Engineering Journal</i> , 2022 , 430, 132895	14.7	11
73	Pharmacophore mapping, molecular docking, chemical synthesis of some novel pyrrolyl benzamide derivatives and evaluation of their inhibitory activity against enoyl-ACP reductase (InhA) and Mycobacterium tuberculosis. <i>Bioorganic Chemistry</i> , 2018 , 81, 440-453	5.1	11
72	Georgeite: A Rare Copper Mineral with Important Drinking Water Implications. <i>Chemical Engineering Journal</i> , 2019 , 355, 1-10	14.7	10
71	Multifunctional silver coated E-33/iron oxide water filters: Inhibition of biofilm growth and arsenic removal. <i>RSC Advances</i> , 2012 , 2, 4198	3.7	10
70	Effect of Phosphate Inhibitors on the Formation of Lead Phosphate/Carbonate Nanorods, Microrods, and Dendritic Structures. <i>Crystal Growth and Design</i> , 2009 , 9, 1798-1805	3.5	10
69	Lead pipe scale analysis using broad-beam argon ion milling to elucidate drinking water corrosion. <i>Microscopy and Microanalysis</i> , 2011 , 17, 284-91	0.5	10
68	Oxidative C-H activation of amines using protuberant lychee-like goethite. <i>Scientific Reports</i> , 2018 , 8, 2024	4.9	9
67	Polymorph-dependent titanium dioxide nanoparticle dissolution in acidic and alkali digestions. <i>Environmental Science: Nano</i> , 2014 , 1, 284-292	7.1	9
66	Crystal and morphological phase transformation of Pb(II) to Pb(IV) in chlorinated water. <i>Journal of Hazardous Materials</i> , 2009 , 165, 1234-8	12.8	8
65	Novel thermally stable poly(vinyl chloride) composites for sulfate removal. <i>Journal of Hazardous Materials</i> , 2011 , 188, 19-25	12.8	8
64	Carbon Nanotube Based Groundwater Remediation: The Case of Trichloroethylene. <i>Molecules</i> , 2016 , 21,	4.8	8
63	Ferrites as Photocatalysts for Water Splitting and Degradation of Contaminants. <i>ACS Symposium Series</i> , 2016 , 79-112	0.4	8
62	Sorption, diffusion, and swelling characteristics of sodium alginate and its blend membranes with poly(vinyl alcohol) in water/acetic acid mixtures. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1139-1150	2.9	7
61	Synthesis of Molybdenum Oxide by Thermal Decomposition of Molybdenum Acetylacetonate Sol-Gel. <i>Magyar Árvad Kémia</i> , 2002 , 68, 901-907	0	7
60	Antimicrobial and anticorrosive efficacy of inorganic nanoporous surfaces. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 845-857	4.3	6

59	Iron-Based Nanomaterials for the Treatment of Emerging Environmental Contaminants. <i>ACS Symposium Series</i> , 2013 , 135-146	0.4	6
58	Nanostructured Surfaces that Show Antimicrobial, Anticorrosive, and Antibiofilm Properties. <i>Key Engineering Materials</i> , 2012 , 521, 1-33	0.4	6
57	Viscosity behavior of hydroxylated and acetoacetylated polyesters. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 2422-2435	2.9	6
56	Miscibility of chitosanHydroxyethylcellulose blends in aqueous acetic acid solutions at 35°C. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1996-1998	2.9	6
55	CHAPTER 1:Photocatalytic Degradation of Organic Contaminants in Water: Process Optimization and Degradation Pathways. <i>RSC Energy and Environment Series</i> , 2016 , 1-34	0.6	6
54	Examining the efficiency of muffle furnace-induced alkaline hydrolysis in determining the titanium content of environmental samples containing engineered titanium dioxide particles. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 645-52	4.3	5
53	Synthesis and characterization of some organopolyphosphazenes and their controlled-release characteristics. <i>Designed Monomers and Polymers</i> , 2007 , 10, 235-251	3.1	5
52	Preparation and characterization of atenolol-loaded cellulose acetate butyrate-poly(vinyl pyrrolidone) blend microspheres: in vitro release studies. <i>Designed Monomers and Polymers</i> , 2007 , 10, 155-165	3.1	5
51	Column: Polymeric Membranes. <i>Polymer News</i> , 2004 , 29, 193-195		5
50	Laser dye diffusion in polymer solutions studied by spectrophotometry. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1157-1165	2.9	5
49	A novel spectrophotometric method to measure the diffusion coefficient of aniline in benzene at 298.15 K. <i>Journal of Molecular Liquids</i> , 2005 , 116, 51-54	6	5
48	Photocatalysis as an effective advanced oxidation process. <i>Water Intelligence Online</i> , 2017 , 16, 333-381		5
47	Quartz Crystal Microbalance with Dissipation: A New Approach of Examining Corrosion of New Copper Surfaces in Drinking Water. <i>Environmental Science & Technology</i> , 2021 ,	10.3	5
46	Nanomaterials Synthesis, Applications, and Toxicity. <i>Journal of Nanotechnology</i> , 2011 , 2011, 1-2	3.5	4
45	Blend compatibility studies of polystyrene/poly(methyl methacrylate) and polystyrene/styreneacrylonitrile by densitometry, viscometry, refractometry, ultraviolet absorbance, and fluorescence techniques at 30°C. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 2548-2550	2.9	4
44	Turn-off Fluorescent Sensing of Energetic Materials using Protonic Acid doped Polyaniline: A Spectrochemical Mechanistic Approach. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 331-340	1.3	4
43	Remediation and mineralization processes for per- and polyfluoroalkyl substances (PFAS) in water: A review. <i>Science of the Total Environment</i> , 2021 , 794, 148987	10.2	4
42	Photocatalytic conversion of CO ₂ into valuable products using emerging two-dimensional graphene-based nanomaterials: A step towards sustainability. <i>Chemical Engineering Journal</i> , 2021 , 425, 131401	14.7	4

41	Influence of non-thermal TiCl ₄ /Ar+O ₂ plasma-assisted TiO _x based coatings on the surface of polypropylene (PP) films for the tailoring of surface properties and cytocompatibility. <i>Materials Science and Engineering C</i> , 2016 , 62, 908-18	8.3	3
40	Microwave-Assisted Combustion Synthesis of Nano Iron Oxide/Iron-Coated Activated Carbon, Anthracite, Cellulose Fiber, and Silica, with Arsenic Adsorption Studies. <i>Journal of Nanotechnology</i> , 2011 , 2011, 1-8	3.5	3
39	Spectrophotometric investigation of laser dye diffusion in styrene-acrylonitrile copolymer solutions. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 1481-1484	2.9	3
38	Microwave Assisted Alkylation of Amines with Alcohols; Magnetically Recoverable Catalysis. <i>Current Organic Chemistry</i> , 2013 , 17, 2332-2337	1.7	3
37	Managing and treating per- and polyfluoroalkyl substances (PFAS) in membrane concentrates.. <i>AWWA Water Science</i> , 2021 , 3, 1-23	1.6	3
36	Photooxidative decomposition and defluorination of perfluorooctanoic acid (PFOA) using an innovative technology of UV-vis/ZnCuFeO/oxalic acid. <i>Chemosphere</i> , 2021 , 280, 130660	8.4	3
35	CHAPTER 5:The Green Synthesis and Environmental Applications of Nanomaterials. <i>RSC Green Chemistry</i> , 2012 , 106-143	0.9	2
34	Nanomaterials Synthesis, Applications, and Toxicity 2012. <i>Journal of Nanotechnology</i> , 2013 , 2013, 1-2	3.5	2
33	Energy transfer processes between primary and secondary dopants in polystyrene solutions dissolved in 1,4-dioxane. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 336-341	2.9	2
32	Molecular transport of n-alkanes through diol chain-extended polyurethane membranes. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 874-882	2.9	2
31	Pyrrolyl Pyrazoline Carbaldehydes as Enoyl-ACP Reductase Inhibitors: Design, Synthesis and Antitubercular Activity. <i>Open Medicinal Chemistry Journal</i> , 2017 , 11, 92-108	1.2	2
30	Cross-Flow Treatment of PFAS in Water: Materials Challenges and Potential Solutions. <i>Accounts of Materials Research</i> , 2021 , 2, 129-133	7.5	2
29	Solar-driven photocatalytic decomposition of microcystin-LR: from laboratory development to on-site demonstration. <i>Water Science and Technology: Water Supply</i> , 2017 , 17, 1722-1729	1.4	1
28	Catalysis for Environmental Applications 2018 , 207-230		1
27	Chemical synthesis, molecular modeling and pharmacophore mapping of new pyrrole derivatives as inhibitors of InhA enzyme and Mycobacterium tuberculosis growth. <i>Medicinal Chemistry Research</i> , 2019 , 28, 1838-1863	2.2	1
26	Influence of Poly (Ethylene Glycol) and Oleylamine on the Formation of Nano to Micron Size Spherical SiO ₂ Particles. <i>Key Engineering Materials</i> , 2012 , 521, 163-169	0.4	1
25	Feature Article: Versatile Carbon Nanotubes: Synthesis, Purification and Their Applications. <i>Polymer News</i> , 2005 , 30, 6-13		1
24	Nano-enhanced treatment of per-fluorinated and poly-fluorinated alkyl substances (PFAS). <i>Current Opinion in Chemical Engineering</i> , 2022 , 35, 100779	5.4	1

23	Hafnium doped tungsten oxide intercalated carbon matrix for electrochemical detection of perfluorooctanoic acid. <i>Chemical Engineering Journal</i> , 2022 , 434, 134700	14.7	1
22	Column: Polymers in Drug Delivery. <i>Polymer News</i> , 2004 , 29, 83-86		1
21	Feature Article: Polymeric Nanoparticulate Drug Delivery Through The Blood Brain Barrier. <i>Polymer News</i> , 2005 , 30, 311-321		1
20	Virus Monitoring and Removal in Natural and Built Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2020 , 146, 01820001	2	1
19	Flexible reusable hierarchical hybrid catalyst for rapid and complete degradation of triclosan in water. <i>Science of the Total Environment</i> , 2021 , 766, 144109	10.2	1
18	Graphene-Based Composites for Phosphate Removal. <i>ACS Omega</i> , 2021 , 6, 4119-4125	3.9	1
17	Detection of energetic materials via polyaniline and its different modified forms. <i>Polymers for Advanced Technologies</i> ,	3.2	1
16	Applications of conventional and advanced technologies for phosphorus remediation from contaminated water 2022 , 181-213		1
15	Combinatorial effects of non-thermal plasma oxidation processes and photocatalytic activity on the inactivation of bacteria and degradation of toxic compounds in wastewater.. <i>RSC Advances</i> , 2022 , 12, 14246-14259	3.7	1
14	Solar light induced photocatalytic activation of peroxymonosulfate by ultra-thin Ti3+ self-doped Fe2O3/TiO2 nanoflakes for the degradation of naphthalene. <i>Applied Catalysis B: Environmental</i> , 2022 , 315, 121532	21.8	1
13	High-pressure membrane filtration processes for separation of Per- and polyfluoroalkyl substances (PFAS). <i>Chemical Engineering Journal</i> , 2022 , 431, 134023	14.7	0
12	A comprehensive review on algae removal and control by coagulation-based processes: mechanism, material, and application. <i>Separation and Purification Technology</i> , 2022 , 121106	8.3	0
11	Mechanistic Study on Size Exclusion of NOM onto Porous TiO ₂ for Target Contaminants Decomposition. <i>Water Environment Research</i> , 2017 , 89, 2006-2014	2.8	
10	Sustainable Synthesis of Metal Oxide Nanostructures 2016 , 1-10		
9	Immobilization of Iron Nanoparticles on Multi Substrates and its Reduction Removal of Chromium (VI) from Waste Streams. <i>Key Engineering Materials</i> , 2012 , 521, 153-162	0.4	
8	Short Communication: Versatile Conjugated Polymer Actuators in Biomedical Applications. <i>Polymer News</i> , 2005 , 30, 195-196		
7	Feature Article: Luminescent Materials-Polymer-Based Electroluminescence. <i>Polymer News</i> , 2004 , 29, 147-154		
6	Column: Polymeric Membranes. <i>Polymer News</i> , 2004 , 29, 253-257		

5 Column: Polymers in India. *Polymer News*, **2004**, 29, 349-352

4 A Report on National Seminar on Emerging Trends in Biodegradable Plastics *Polymer News*, **2005**, 30, 100-102

3 Advanced Oxidation Processes **2020**, 173-206

2 Barium-Encapsulated Biodegradable Polycaprolactone for Sulfate Removal. *Water (Switzerland)*, **2018**, 10, 1789

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1 Assessment of health, safety, and economics of surface-modified nanomaterials for catalytic applications **2022**, 289-317