

Mika Sillanpää

List of Publications by Year in descending order

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989
papers

58,958
citations

1371

108
h-index

2684

193
g-index

1006
all docs

1006
docs citations

1006
times ranked

48660
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural organic matter removal by coagulation during drinking water treatment: A review. <i>Advances in Colloid and Interface Science</i> , 2010, 159, 189-197.	14.7	993
2	Utilization of agro-industrial and municipal waste materials as potential adsorbents for water treatment—A review. <i>Chemical Engineering Journal</i> , 2010, 157, 277-296.	12.7	958
3	Fluoride removal from water by adsorption—A review. <i>Chemical Engineering Journal</i> , 2011, 171, 811-840.	12.7	901
4	An overview of the modification methods of activated carbon for its water treatment applications. <i>Chemical Engineering Journal</i> , 2013, 219, 499-511.	12.7	839
5	Water purification using magnetic assistance: A review. <i>Journal of Hazardous Materials</i> , 2010, 180, 38-49.	12.4	829
6	A review on modification methods to cellulose-based adsorbents to improve adsorption capacity. <i>Water Research</i> , 2016, 91, 156-173.	11.3	795
7	Occurrence, identification and removal of microplastic particles and fibers in conventional activated sludge process and advanced MBR technology. <i>Water Research</i> , 2018, 133, 236-246.	11.3	781
8	Electrokinetic soil remediation — critical overview. <i>Science of the Total Environment</i> , 2002, 289, 97-121.	8.0	747
9	Atmospheric microplastics: A review on current status and perspectives. <i>Earth-Science Reviews</i> , 2020, 203, 103118.	9.1	630
10	A review of emerging adsorbents for nitrate removal from water. <i>Chemical Engineering Journal</i> , 2011, 168, 493-504.	12.7	627
11	Heterogeneous water phase catalysis as an environmental application: a review. <i>Chemosphere</i> , 2002, 48, 1047-1060.	8.2	609
12	Methods for preparation and activation of activated carbon: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 393-415.	16.2	592
13	Applications of chitin- and chitosan-derivatives for the detoxification of water and wastewater — A short review. <i>Advances in Colloid and Interface Science</i> , 2009, 152, 26-38.	14.7	591
14	Agricultural waste peels as versatile biomass for water purification — A review. <i>Chemical Engineering Journal</i> , 2015, 270, 244-271.	12.7	582
15	Tansy fruit mediated greener synthesis of silver and gold nanoparticles. <i>Process Biochemistry</i> , 2010, 45, 1065-1071.	3.7	557
16	An overview of the methods used in the characterisation of natural organic matter (NOM) in relation to drinking water treatment. <i>Chemosphere</i> , 2011, 83, 1431-1442.	8.2	549
17	Removal of natural organic matter from drinking water by advanced oxidation processes. <i>Chemosphere</i> , 2010, 80, 351-365.	8.2	540
18	Removal of natural organic matter in drinking water treatment by coagulation: A comprehensive review. <i>Chemosphere</i> , 2018, 190, 54-71.	8.2	508

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19	A critical review on application of photocatalysis for toxicity reduction of real wastewaters. <i>Journal of Cleaner Production</i> , 2020, 258, 120694.	9.3	457
20	A review of bio-based materials for oil spill treatment. <i>Water Research</i> , 2018, 135, 262-277.	11.3	455
21	Nanoadsorbents based on conducting polymer nanocomposites with main focus on polyaniline and its derivatives for removal of heavy metal ions/dyes: A review. <i>Environmental Research</i> , 2018, 162, 173-195.	7.5	448
22	The role of nanomaterials as effective adsorbents and their applications in wastewater treatment. <i>Journal of Nanostructure in Chemistry</i> , 2017, 7, 1-14.	9.1	444
23	Recent advancement in biodiesel production methodologies using various feedstock: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 356-369.	16.4	439
24	Preparation and characterization of a novel chitosan/Al ₂ O ₃ /magnetite nanoparticles composite adsorbent for kinetic, thermodynamic and isotherm studies of Methyl Orange adsorption. <i>Chemical Engineering Journal</i> , 2015, 259, 1-10.	12.7	430
25	Fate of diclofenac in municipal wastewater treatment plant – A review. <i>Environment International</i> , 2014, 69, 28-39.	10.0	419
26	EDTA-Cross-Linked β -Cyclodextrin: An Environmentally Friendly Bifunctional Adsorbent for Simultaneous Adsorption of Metals and Cationic Dyes. <i>Environmental Science & Technology</i> , 2015, 49, 10570-10580.	10.0	402
27	Adsorption of Co(II) and Ni(II) by EDTA- and/or DTPA-modified chitosan: Kinetic and equilibrium modeling. <i>Chemical Engineering Journal</i> , 2010, 161, 73-82.	12.7	377
28	Recent advances in using of chitosan-based adsorbents for removal of pharmaceutical contaminants: A review. <i>Journal of Cleaner Production</i> , 2021, 291, 125880.	9.3	373
29	As(V) adsorption on maghemite nanoparticles. <i>Journal of Hazardous Materials</i> , 2009, 166, 1415-1420.	12.4	368
30	Green synthesis and characterizations of silver and gold nanoparticles using leaf extract of <i>Rosa rugosa</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 364, 34-41.	4.7	342
31	Recent advances in removal techniques of Cr(VI) toxic ion from aqueous solution: A comprehensive review. <i>Journal of Molecular Liquids</i> , 2021, 329, 115062.	4.9	332
32	Recent developments of electro-oxidation in water treatment – A review. <i>Journal of Electroanalytical Chemistry</i> , 2015, 754, 46-56.	3.8	324
33	Adsorptive removal of cobalt from aqueous solution by utilizing lemon peel as biosorbent. <i>Biochemical Engineering Journal</i> , 2010, 48, 181-186.	3.6	295
34	MIL-101(Fe)/g-C ₃ N ₄ for enhanced visible-light-driven photocatalysis toward simultaneous reduction of Cr(VI) and oxidation of bisphenol A in aqueous media. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119033.	20.2	293
35	Advanced oxidation processes for the removal of natural organic matter from drinking water sources: A comprehensive review. <i>Journal of Environmental Management</i> , 2018, 208, 56-76.	7.8	276
36	Increased biogas production at wastewater treatment plants through co-digestion of sewage sludge with grease trap sludge from a meat processing plant. <i>Bioresource Technology</i> , 2009, 100, 79-85.	9.6	275

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37	A review on catalytic applications of Au/TiO ₂ nanoparticles in the removal of water pollutant. <i>Chemosphere</i> , 2014, 107, 163-174.	8.2	271
38	Removal of heavy metals from aqueous solutions by succinic anhydride modified mercerized nanocellulose. <i>Chemical Engineering Journal</i> , 2013, 223, 40-47.	12.7	267
39	Heavy metals adsorption by novel EDTA-modified chitosan-silica hybrid materials. <i>Journal of Colloid and Interface Science</i> , 2011, 358, 261-267.	9.4	261
40	Removal of natural organic matter (NOM) and its constituents from water by adsorption – A review. <i>Chemosphere</i> , 2017, 166, 497-510.	8.2	246
41	Novel 1-butyl-3-methylimidazolium bromide impregnated chitosan hydrogel beads nanostructure as an efficient nanobio-adsorbent for cationic dye removal: Kinetic study. <i>Environmental Research</i> , 2021, 195, 110809.	7.5	234
42	Ion Mobility Spectrometry and Its Applications in Detection of Chemical Warfare Agents. <i>Analytical Chemistry</i> , 2010, 82, 9594-9600.	6.5	232
43	Nanoparticles in electrochemical sensors for environmental monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1704-1715.	11.4	231
44	Nitrate removal from water by nano-alumina: Characterization and sorption studies. <i>Chemical Engineering Journal</i> , 2010, 163, 317-323.	12.7	228
45	Development of iron oxide/activated carbon nanoparticle composite for the removal of Cr(VI), Cu(II) and Cd(II) ions from aqueous solution. <i>Water Resources and Industry</i> , 2018, 20, 54-74.	3.9	226
46	Understanding the factors affecting the adsorption of Lanthanum using different adsorbents: A critical review. <i>Chemosphere</i> , 2018, 204, 413-430.	8.2	222
47	Defluoridation from aqueous solutions by nano-alumina: Characterization and sorption studies. <i>Journal of Hazardous Materials</i> , 2011, 186, 1042-1049.	12.4	217
48	Stability of 5,5-dimethyl-1-pyrroline-N-oxide as a spin-trap for quantification of hydroxyl radicals in processes based on Fenton reaction. <i>Water Research</i> , 2016, 99, 24-32.	11.3	217
49	Emerging adsorptive removal of azo dye by metal-organic frameworks. <i>Chemosphere</i> , 2016, 160, 30-44.	8.2	212
50	Tin dioxide as a photocatalyst for water treatment: A review. <i>Chemical Engineering Research and Design</i> , 2017, 107, 190-205.	5.6	211
51	Application of nanotechnologies for removing pharmaceutically active compounds from water: development and future trends. <i>Environmental Science: Nano</i> , 2018, 5, 27-47.	4.3	211
52	Bioprospective of <i>Sorbus aucuparia</i> leaf extract in development of silver and gold nanocolloids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 80, 26-33.	5.0	210
53	Adsorption of Ni(II), Cu(II) and Cd(II) from aqueous solutions by amino modified nanostructured microfibrillated cellulose. <i>Cellulose</i> , 2014, 21, 1471-1487.	4.9	209
54	Calcium hydroxyapatite microfibrillated cellulose composite as a potential adsorbent for the removal of Cr(VI) from aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 283, 445-452.	12.7	207

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55	Polyethylenimine-cross-linked cellulose nanocrystals for highly efficient recovery of rare earth elements from water and a mechanism study. <i>Green Chemistry</i> , 2017, 19, 4816-4828.	9.0	200
56	Aminopolycarboxylic acid functionalized adsorbents for heavy metals removal from water. <i>Water Research</i> , 2013, 47, 4812-4832.	11.3	195
57	Removal of natural organic matter (NOM) from water by ion exchange – A review. <i>Chemosphere</i> , 2018, 192, 90-104.	8.2	195
58	Parthenolide, a Sesquiterpene Lactone, Expresses Multiple Anti-cancer and Anti-inflammatory Activities. <i>Inflammation</i> , 2012, 35, 560-565.	3.8	192
59	Carbon-based quantum particles: an electroanalytical and biomedical perspective. <i>Chemical Society Reviews</i> , 2019, 48, 4281-4316.	38.1	187
60	Magnetic Field Application and its Potential in Water and Wastewater Treatment Systems. <i>Separation and Purification Reviews</i> , 2014, 43, 206-240.	5.5	185
61	Ultraviolet light-emitting diodes in water disinfection. <i>Environmental Science and Pollution Research</i> , 2009, 16, 439-442.	5.3	180
62	Adsorption of Cd(II) and Pb(II) by a novel EGTA-modified chitosan material: Kinetics and isotherms. <i>Journal of Colloid and Interface Science</i> , 2013, 409, 174-182.	9.4	178
63	An EDTA- β -cyclodextrin material for the adsorption of rare earth elements and its application in preconcentration of rare earth elements in seawater. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 215-224.	9.4	178
64	Heterogeneous UV-Switchable Au nanoparticles decorated tungstophosphoric acid/TiO ₂ for efficient photocatalytic degradation process. <i>Chemosphere</i> , 2021, 281, 130795.	8.2	178
65	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.	9.1	177
66	Degradation of chelating agents in aqueous solution using advanced oxidation process (AOP). <i>Chemosphere</i> , 2011, 83, 1443-1460.	8.2	175
67	Water quality in the Tibetan Plateau: Major ions and trace elements in the headwaters of four major Asian rivers. <i>Science of the Total Environment</i> , 2009, 407, 6242-6254.	8.0	174
68	Degradation and mineralization of phenol in aqueous medium by heterogeneous monopersulfate activation on nanostructured cobalt based-perovskite catalysts ACoO ₃ (A = La, Ba, Sr and Ce): Characterization, kinetics and mechanism study. <i>Applied Catalysis B: Environmental</i> , 2017, 215, 60-73.	20.2	174
69	Importance of atmospheric transport for microplastics deposited in remote areas. <i>Environmental Pollution</i> , 2019, 254, 112953.	7.5	172
70	Fate of engineered nanoparticles: Implications in the environment. <i>Coordination Chemistry Reviews</i> , 2015, 287, 64-78.	18.8	171
71	Adsorption isotherm models: A comprehensive and systematic review (2010~2020). <i>Science of the Total Environment</i> , 2022, 812, 151334.	8.0	165
72	Self-Assembled Mesoporous Hierarchical-like In ₂ S ₃ Hollow Microspheres Composed of Nanofibers and Nanosheets and Their Photocatalytic Activity. <i>Langmuir</i> , 2011, 27, 5534-5541.	3.5	163

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73	Removal of Co(II) and Ni(II) ions from contaminated water using silica gel functionalized with EDTA and/or DTPA as chelating agents. <i>Journal of Hazardous Materials</i> , 2009, 171, 1071-1080.	12.4	161
74	Modeling biogas production from organic fraction of MSW co-digested with MSWI ashes in anaerobic bioreactors. <i>Bioresource Technology</i> , 2010, 101, 6329-6335.	9.6	158
75	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.	12.7	155
76	Organic, elemental and inorganic carbon in particulate matter of six urban environments in Europe. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2869-2879.	4.9	151
77	Water quality in the Tibetan Plateau: Metal contents of four selected rivers. <i>Environmental Pollution</i> , 2008, 156, 270-277.	7.5	149
78	Simultaneous Dual-Functional Photocatalysis by g-C ₃ N ₄ -Based Nanostructures. <i>ACS ES&T Engineering</i> , 2022, 2, 564-585.	7.6	149
79	Electrochemical methods for the removal of anionic contaminants from water – A review. <i>Separation and Purification Technology</i> , 2014, 132, 252-271.	7.9	145
80	Force and EMG power spectrum during eccentric and concentric actions. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 1757-1762.	0.4	142
81	Design and engineering heterojunctions for the photoelectrochemical monitoring of environmental pollutants: A review. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 405-422.	20.2	141
82	A comparative experimental study on methyl orange degradation by electrochemical oxidation on BDD and MMO electrodes. <i>Separation and Purification Technology</i> , 2011, 78, 290-297.	7.9	140
83	Synthesis and application of LDH intercalated cellulose nanocomposite for separation of rare earth elements (REEs). <i>Chemical Engineering Journal</i> , 2017, 309, 130-139.	12.7	140
84	Nano-adsorbents for Remediation of Aquatic Environment: Local and Practical Solutions for Global Water Pollution Problems. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 1233-1295.	12.8	135
85	Optimized removal of antibiotic drugs from aqueous solutions using single, double and multi-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2015, 298, 102-110.	12.4	133
86	Green Synthesis of Magnetic EDTA- and/or DTPA-Cross-Linked Chitosan Adsorbents for Highly Efficient Removal of Metals. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1271-1281.	3.7	133
87	Ion spectrometric detection technologies for ultra-traces of explosives: A review. <i>Mass Spectrometry Reviews</i> , 2011, 30, 940-973.	5.4	132
88	Water quality in the Tibetan Plateau: Major ions and trace elements in rivers of the “Water Tower of Asia”. <i>Science of the Total Environment</i> , 2019, 649, 571-581.	8.0	131
89	Membrane purification in radioactive waste management: a short review. <i>Journal of Environmental Radioactivity</i> , 2012, 105, 76-84.	1.7	130
90	Atmospheric Mercury Depositional Chronology Reconstructed from Lake Sediments and Ice Core in the Himalayas and Tibetan Plateau. <i>Environmental Science & Technology</i> , 2016, 50, 2859-2869.	10.0	130

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91	Electrode materials used for electrochemical oxidation of organic compounds in wastewater. <i>Reviews in Environmental Science and Biotechnology</i> , 2017, 16, 223-238.	8.1	130
92	Removal of arsenic(V) by magnetic nanoparticle activated microfibrillated cellulose. <i>Chemical Engineering Journal</i> , 2015, 260, 886-894.	12.7	129
93	Biochar based catalysts for the abatement of emerging pollutants: A review. <i>Chemical Engineering Journal</i> , 2020, 394, 124856.	12.7	129
94	Ionic liquid-based water treatment technologies for organic pollutants: Current status and future prospects of ionic liquid mediated technologies. <i>Science of the Total Environment</i> , 2019, 690, 604-619.	8.0	128
95	Sulfate radical-mediated degradation and mineralization of bisphenol F in neutral medium by the novel magnetic Sr ₂ CoFeO ₆ double perovskite oxide catalyzed peroxydisulfate: Influence of co-existing chemicals and UV irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 99-111.	20.2	127
96	Facile Construction of Heterostructured BiVO ₄ /ZnO and Its Dual Application of Greater Solar Photocatalytic Activity and Self-Cleaning Property. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8346-8356.	3.7	122
97	Application of UV-C LED activated PMS for the degradation of anatoxin-a. <i>Chemical Engineering Journal</i> , 2016, 284, 122-129.	12.7	121
98	Recent developments in photochemical and chemical AOPs in water treatment: a mini-review. <i>Reviews in Environmental Science and Biotechnology</i> , 2010, 9, 323-330.	8.1	120
99	Facile Fabrication of Tunable Bi ₂ O ₃ Self-Assembly and Its Visible Light Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12906-12915.	3.1	120
100	Versatile Cellulose-Based Carbon Aerogel for the Removal of Both Cationic and Anionic Metal Contaminants from Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25875-25883.	8.0	119
101	Superparamagnetic Fe ₃ O ₄ @EDTA nanoparticles as an efficient adsorbent for simultaneous removal of Ag(I), Hg(II), Mn(II), Zn(II), Pb(II) and Cd(II) from water and soil environmental samples. <i>Microchemical Journal</i> , 2017, 131, 51-56.	4.5	119
102	Meso- and microporous soft templated hydrothermal carbons for dye removal from water. <i>Green Chemistry</i> , 2016, 18, 1137-1146.	9.0	118
103	Green synthesis of magnesium oxide nanoflower and its application for the removal of divalent metallic species from synthetic wastewater. <i>Ceramics International</i> , 2015, 41, 6702-6709.	4.8	117
104	Assessing the impact of complexation by EDTA and DTPA on heavy metal toxicity using microtox bioassay. <i>Chemosphere</i> , 1996, 32, 1485-1497.	8.2	116
105	Artemisia vulgaris-derived mesoporous honeycomb-shaped activated carbon for ibuprofen adsorption. <i>Chemical Engineering Journal</i> , 2010, 165, 537-544.	12.7	116
106	Chemical composition of aerosol during particle formation events in boreal forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 380.	1.6	116
107	Biological processes for treatment of landfill leachate. <i>Journal of Environmental Monitoring</i> , 2010, 12, 2032.	2.1	114
108	Adsorption of Ni ²⁺ , Cd ²⁺ , PO ₄ ³⁻ and NO ₃ ⁻ from aqueous solutions by nanostructured microfibrillated cellulose modified with carbonated hydroxyapatite. <i>Chemical Engineering Journal</i> , 2014, 252, 64-74.	12.7	114

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109	Light-absorbing impurities enhance glacier albedo reduction in the southeastern Tibetan plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6915-6933.	3.3	114
110	The pH sensitive properties of carboxymethyl chitosan nanoparticles cross-linked with calcium ions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 229-236.	5.0	112
111	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 583-611.	16.2	112
112	The Thermoelectric Performance of Poly(3,4-ethylenedioxythiophene)/Poly(4-styrenesulfonate) Thin Films. <i>Journal of Electronic Materials</i> , 2009, 38, 1182-1188.	2.2	110
113	Comparative overview of advanced oxidation processes and biological approaches for the removal pharmaceuticals. <i>Journal of Environmental Management</i> , 2021, 288, 112404.	7.8	109
114	Application of zinc-aluminium layered double hydroxides for adsorptive removal of phosphate and sulfate: Equilibrium, kinetic and thermodynamic. <i>Chemosphere</i> , 2018, 209, 470-479.	8.2	107
115	Recent Developments in Homogeneous Advanced Oxidation Processes for Water and Wastewater Treatment. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-21.	2.5	106
116	Reactivity of novel Ceria-Perovskite composites CeO ₂ -LaMO ₃ (MCu, Fe) in the catalytic wet peroxidative oxidation of the new emergent pollutant Bisphenol F™: Characterization, kinetic and mechanism studies. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 119-136.	20.2	106
117	Effect of metal ions adsorption on the efficiency of methylene blue degradation onto MgFe ₂ O ₄ as Fenton-like catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 571, 17-26.	4.7	106
118	pH-Independent Production of Hydroxyl Radical from Atomic H [*] -Mediated Electro-catalytic H ₂ O ₂ Reduction: A Green Fenton Process without Byproducts. <i>Environmental Science & Technology</i> , 2020, 54, 14725-14731.	10.0	106
119	Ion mobility spectrometers with doped gases. <i>Talanta</i> , 2008, 76, 978-987.	5.5	105
120	Application of carbon quantum dots to increase the activity of conventional photocatalysts: A systematic review. <i>Journal of Molecular Liquids</i> , 2018, 271, 857-871.	4.9	105
121	Removal of carbamazepine from MBR effluent by electrochemical oxidation (EO) using a Ti/Ta ₂ O ₅ -SnO ₂ electrode. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 329-338.	20.2	104
122	Degradation of EDTA and novel complexing agents in pulp and paper mill process and waste waters by Fenton's reagent. <i>Journal of Hazardous Materials</i> , 2007, 147, 556-561.	12.4	103
123	Efficient removal of water bacteria and viruses using electrospun nanofibers. <i>Science of the Total Environment</i> , 2021, 751, 141673.	8.0	103
124	Polyacrylamide@Zr(IV) vanadophosphate nanocomposite: Ion exchange properties, antibacterial activity, and photocatalytic behavior. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 201-208.	5.8	102
125	Enrichment of lanthanides in aqueous system by cellulose based silica nanocomposite. <i>Chemical Engineering Journal</i> , 2017, 320, 151-159.	12.7	101
126	Synthesis of graphene-carbon sphere hybrid aerogel with silver nanoparticles and its catalytic and adsorption applications. <i>Chemical Engineering Journal</i> , 2014, 244, 160-167.	12.7	100

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127	Adsorptive removal of cobalt(II) from aqueous solutions using multi-walled carbon nanotubes and γ -alumina as novel adsorbents: Modelling and optimization based on response surface methodology and artificial neural network. <i>Journal of Molecular Liquids</i> , 2020, 299, 112154.	4.9	100
128	Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions. <i>Dyes and Pigments</i> , 2021, 192, 109227.	3.7	100
129	Removal of recalcitrant contaminants from bleaching effluents in pulp and paper mills using ultrasonic irradiation and Fenton-like oxidation, electrochemical treatment, and/or chemical precipitation: A comparative study. <i>Desalination</i> , 2010, 255, 179-187.	8.2	99
130	Interaction of anionic pollutants with Al-based adsorbents in aqueous media – A review. <i>Chemical Engineering Journal</i> , 2014, 241, 443-456.	12.7	99
131	Acid mine drainage (AMD) treatment: Neutralization and toxic elements removal with unmodified and modified limestone. <i>Ecological Engineering</i> , 2015, 81, 30-40.	3.6	99
132	Optimized removal of oxytetracycline and cadmium from contaminated waters using chemically-activated and pyrolyzed biochars from forest and wood-processing residues. <i>Bioresource Technology</i> , 2017, 239, 28-36.	9.6	99
133	Bacterial mer operon-mediated detoxification of mercurial compounds: a short review. <i>Archives of Microbiology</i> , 2011, 193, 837-844.	2.2	97
134	Natural Organic Matter Removal from Drinking Water by Membrane Technology. <i>Separation and Purification Reviews</i> , 2014, 43, 1-61.	5.5	97
135	Intercomparison study on commonly used methods to determine microplastics in wastewater and sludge samples. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12109-12122.	5.3	97
136	Statistical modelling of endocrine disrupting compounds adsorption onto activated carbon prepared from wood using CCD-RSM and DE hybrid evolutionary optimization framework: Comparison of linear vs non-linear isotherm and kinetic parameters. <i>Journal of Molecular Liquids</i> , 2020, 302, 112526.	4.9	96
137	Controlled Fabrication of γ -GaOOH and γ -Ga ₂ O ₃ Self-Assembly and Its Superior Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 44-53.	3.1	95
138	Enhanced photocatalytic activity of anatase-TiO ₂ nanoparticles by fullerene modification: A theoretical and experimental study. <i>Applied Surface Science</i> , 2016, 387, 750-758.	6.1	95
139	Sewage Sludge Electro-Dewatering Treatment – A Review. <i>Drying Technology</i> , 2012, 30, 691-706.	3.1	94
140	Cauliflower-like CdS Microspheres Composed of Nanocrystals and Their Physicochemical Properties. <i>Langmuir</i> , 2011, 27, 352-358.	3.5	93
141	Adsorption kinetics, isotherms and mechanisms of Cd(II), Pb(II), Co(II) and Ni(II) by a modified magnetic polyacrylamide microcomposite adsorbent. <i>Journal of Water Process Engineering</i> , 2014, 4, 47-57.	5.6	93
142	Overview of technologies for removal of methyl tert-butyl ether (MTBE) from water. <i>Science of the Total Environment</i> , 2014, 476-477, 415-433.	8.0	91
143	Concentrations and light absorption characteristics of carbonaceous aerosol in PM 2.5 and PM 10 of Lhasa city, the Tibetan Plateau. <i>Atmospheric Environment</i> , 2016, 127, 340-346.	4.1	91
144	Effective shell wall thickness of vertically aligned ZnO-ZnS core-shell nanorod arrays on visible photocatalytic and photo sensing properties. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 128-139.	20.2	91

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145	Synthesis of novel GA-g-PAM/SiO ₂ nanocomposite for the recovery of rare earth elements (REE) ions from aqueous solution. <i>Journal of Cleaner Production</i> , 2018, 170, 251-259.	9.3	91
146	The use of low-cost adsorbents for wastewater purification in mining industries. <i>Environmental Science and Pollution Research</i> , 2013, 20, 7878-7899.	5.3	90
147	Recovery of gold from aqueous solutions by taurine modified cellulose: An adsorptive "reduction pathway. <i>Chemical Engineering Journal</i> , 2014, 255, 97-106.	12.7	90
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