

Mika Sillanpää

List of Publications by Year in descending order

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989
papers

58,958
citations

1368

108
h-index

2675

193
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1006
all docs

1006
docs citations

1006
times ranked

48660
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of Acid orange 7 dyes from aqueous solution using Polypyrrole/nanosilica composite: Experimental and modelling. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 212-229.	1.8	50
2	Pinewood sawdust biochar as an effective biosorbent for PAHs removal from wastewater. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 13443-13459.	2.9	6
3	Synthesis of non-active electrode (TiO ₂ /GO/Ag) for the photo-electro-Fenton oxidation of micropollutants in wastewater. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 639-652.	1.8	5
4	Global impact of COVID-19 on agriculture: role of sustainable agriculture and digital farming. <i>Environmental Science and Pollution Research</i> , 2023, 30, 42509-42525.	2.7	64
5	Dissolved organic carbon in Alaskan Arctic snow: concentrations, light-absorption properties, and bioavailability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1778968.	0.8	13
6	Properties, synthesis, and recent advancement in photocatalytic applications of graphdiyne: A review. <i>Separation and Purification Technology</i> , 2022, 281, 119825.	3.9	40
7	Assessment of an energy efficient closed loop heat pump dryer for high moisture contents materials: An experimental investigation and AI based modelling. <i>Energy</i> , 2022, 238, 121819.	4.5	29
8	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.	6.6	155
9	Chemical composition of aerosol during particle formation events in boreal forest. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 380.	0.8	116
10	Microplastics in mangroves and coral reef ecosystems: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 397-416.	8.3	53
11	Dynamics of microbial community and their effects on membrane fouling in an anoxic-oxic gravity-driven membrane bioreactor under varying solid retention time: A pilot-scale study. <i>Science of the Total Environment</i> , 2022, 807, 150878.	3.9	12
12	Adsorption isotherm models: A comprehensive and systematic review (2010~2020). <i>Science of the Total Environment</i> , 2022, 812, 151334.	3.9	165
13	Recent progress and challenges facing ballast water treatment – A review. <i>Chemosphere</i> , 2022, 291, 132776.	4.2	45
14	MXenes based nano-heterojunctions and composites for advanced photocatalytic environmental detoxification and energy conversion: A review. <i>Chemosphere</i> , 2022, 291, 132923.	4.2	27
15	Pre-COVID-19 pandemic: effects on air quality in the three cities of India using fuzzy MCDM model. <i>Journal of Environmental Health Science & Engineering</i> , 2022, 20, 41-51.	1.4	4
16	A novel Sm doped Cr ₂ O ₃ sesquioxide-decorated MWCNTs heterostructured Fenton-like with sonophotocatalytic activities under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2022, 426, 127812.	6.5	7
17	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , 2022, 291, 133036.	4.2	18
18	Synthesis of novel Bi-Fe ₂ O ₃ -Bi ₂ S ₃ -Gr for efficient photocatalytic degradation of environmental pollutants under visible-LED light irradiation. <i>Separation and Purification Technology</i> , 2022, 284, 120241.	3.9	9

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19	A heterogeneous peroxymonosulfate catalyst built by Fe-based metal-organic framework for the dye degradation. <i>Journal of Environmental Management</i> , 2022, 303, 113897.	3.8	19
20	Synergistic degradation of organic pollutants by poly (3,4-ethylenedioxythiophene) based photo-electrocatalysis. <i>Journal of Water Process Engineering</i> , 2022, 45, 102494.	2.6	5
21	Alternative cleaner production of sustainable concrete from waste foundry sand and slag. <i>Journal of Cleaner Production</i> , 2022, 336, 130399.	4.6	28
22	Nanoporous NiO@SiO ₂ photo-catalyst prepared by ion-exchange method for fast elimination of reactive dyes from wastewater. <i>Materials Today Chemistry</i> , 2022, 23, 100677.	1.7	15
23	Photoelectrocatalytic mechanism of PEDOT modified filtration membrane. <i>Science of the Total Environment</i> , 2022, 813, 152397.	3.9	5
24	Waste-to-Resource: New application of modified mine silicate waste to remove Pb ²⁺ ion and methylene blue dye, adsorption properties, mechanism of action and recycling. <i>Chemosphere</i> , 2022, 292, 133412.	4.2	17
25	Simultaneous Dual-Functional Photocatalysis by g-C ₃ N ₄ -Based Nanostructures. <i>ACS ES&T Engineering</i> , 2022, 2, 564-585.	3.7	149
26	Aqueous photodegradation of methyl orange and antimicrobial activity against E. coli and S. aureus bacteria using pH modified MgO nanomaterials. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2022, 135, 499-510.	0.8	3
27	Response to comment on "COVID-19, a double-edged sword for the environment: a review on the impacts of COVID-19 on the environment". <i>Environmental Science and Pollution Research</i> , 2022, 29, 10865-10866.	2.7	1
28	Optimizing Graphene Oxide Encapsulated TiO ₂ and Hydroxyapatite; Structure and Biological Response. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1306.	1.9	0
29	Development of a Continuous Photo-catalytic/Ozonation System: Application on Amido Black Removal from Water. <i>Ozone: Science and Engineering</i> , 2022, 44, 545-565.	1.4	1
30	Can "biodegradability" of adsorbents constitute an "Achilles heel" in real-world water purification? Perspectives and opportunities. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107321.	3.3	4
31	A novel solar absorber using activated carbon nanoparticles synthesized from bio-waste for the performance improvement of solar desalination unit. <i>Desalination</i> , 2022, 527, 115564.	4.0	20
32	Single crystal X-ray structural dataset of 1,2,4-dithiazolium tetrafluoroborate. <i>Data in Brief</i> , 2022, 41, 107924.	0.5	0
33	Erbium adsorption from aqueous solutions using RSM-based optimization of the phosphate functional group in modified nano titania. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128537.	2.3	6
34	Improved corrosion inhibition by heterocyclic compounds on mild steel in acid medium. <i>Corrosion Reviews</i> , 2022, 40, 137-148.	1.0	5
35	Export of Dissolved Organic Carbon from the Source Region of Yangtze River in the Tibetan Plateau. <i>Sustainability</i> , 2022, 14, 2441.	1.6	4
36	Enhanced bioenergy and nutrients recovery from wastewater using hybrid anodes in microbial nutrient recovery system. , 2022, 15, 19.		1

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37	Removal of Reactive Black 5 Dye by Banana Peel Biochar and Evaluation of Its Phytotoxicity on Tomato. Sustainability, 2022, 14, 4176.	1.6	27
38	Efficient Synthesis of Dihydropyrimidines Using a Highly Ordered Mesoporous Functionalized Pyridinium Organosilica. Catalysts, 2022, 12, 350.	1.6	3
39	Chiral separation of β -blockers by supercritical fluid chromatography using Chiralpak β and Chiralpak IB β columns. Chirality, 2022, , .	1.3	3
40	Persistent organic pollutants in water resources: Fate, occurrence, characterization and risk analysis. Science of the Total Environment, 2022, 831, 154808.	3.9	61
41	Eco-friendly synthesis and characterizations of Ag/AgO/Ag ₂ O nanoparticles using leaf extracts of Solanum elaeagnifolium for antioxidant, anticancer, and DNA cleavage activities. Chemical Papers, 2022, 76, 4309-4321.	1.0	12
42	Assessment of pesticide toxicity on earthworms using multiple biomarkers: a review. Environmental Chemistry Letters, 2022, 20, 2573-2596.	8.3	16
43	TiO ₂ nanorods decorated on RGO sheet for an excellent energy storage performance. International Journal of Hydrogen Energy, 2022, 47, 15571-15582.	3.8	12
44	The stability of poly (3, 4-ethylenedioxythiophene) based on electrochemical polymerization and photoelectro-corrosion conditions. Polymer Degradation and Stability, 2022, 198, 109881.	2.7	1
45	Contamination, exposure, and health risk assessment of Hg in Pakistan: A review. Environmental Pollution, 2022, 301, 118995.	3.7	35
46	Artificial neural network and statistical modelling of biosorptive removal of hexavalent chromium using macroalgal spent biomass. Chemosphere, 2022, 296, 133965.	4.2	53
47	Mechanistic understanding of Nickel(II) adsorption onto fluorapatite-based natural phosphate via Rietveld refinement combined with Monte Carlo simulations. Journal of Solid State Chemistry, 2022, 310, 123023.	1.4	7
48	Metallic nanoparticles for catalytic reduction of toxic hexavalent chromium from aqueous medium: A state-of-the-art review. Science of the Total Environment, 2022, 829, 154475.	3.9	45
49	Synthetic organic antibiotics residues as emerging contaminants waste-to-resources processing for a circular economy in China: Challenges and perspective. Environmental Research, 2022, 211, 113075.	3.7	32
50	Effective adsorption of diclofenac and naproxen from water using fixed-bed column loaded with composite of heavy sugarcane ash and polyethylene terephthalate. Environmental Research, 2022, 211, 112971.	3.7	4
51	Homogeneous Electrochemiluminescence in the Sensors Game: What Have We Learned from Past Experiments?. Analytical Chemistry, 2022, 94, 349-365.	3.2	34
52	Microplastic Pollution in Water and Their Removal in Various Wastewater Treatment Plants. Environmental Footprints and Eco-design of Products and Processes, 2022, , 247-271.	0.7	3
53	Landfill leachate treatment using photocatalytic methods. , 2022, , 111-134.		0
54	Sustainable adsorbents for the removal of pharmaceuticals from wastewater: A review. Chemosphere, 2022, 300, 134597.	4.2	30

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55	Remediation of pharmaceuticals from contaminated water by molecularly imprinted polymers: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2629-2664.	8.3	32
56	Recent advances of bismuth titanate based photocatalysts engineering for enhanced organic contaminates oxidation in water: A review. <i>Chemosphere</i> , 2022, 300, 134622.	4.2	40
57	Protein nanofibrils as versatile and sustainable adsorbents for an effective removal of heavy metals from wastewater: A review. <i>Chemosphere</i> , 2022, 301, 134635.	4.2	9
58	Nitrate adsorption onto surface-modified red mud in batch and fixed-bed column systems: equilibrium, kinetic, and thermodynamic studies. <i>Environmental Science and Pollution Research</i> , 2022, 29, 48438-48452.	2.7	14
59	Recent advances in the application of magnetic bio-polymers as catalysts in multicomponent reactions. <i>RSC Advances</i> , 2022, 12, 12672-12701.	1.7	18
60	Some Well-Known Alginate and Chitosan Modifications Used in Adsorption: A Review. <i>Water (Switzerland)</i> , 2022, 14, 1353.	1.2	32
61	Methylene blue adsorption on magnesium ferrite: Optimization study, kinetics and reusability. <i>Materials Today Communications</i> , 2022, 31, 103594.	0.9	11
62	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives. <i>Bioresource Technology</i> , 2022, 355, 127303.	4.8	50
63	Rational synthesis of rare-earth lanthanum molybdate covered reduced graphene oxide nanocomposites for the voltammetric detection of Moxifloxacin hydrochloride. <i>Bioelectrochemistry</i> , 2022, 146, 108145.	2.4	9
64	Metal-organic framework-based materials for the abatement of air pollution and decontamination of wastewater. <i>Chemosphere</i> , 2022, 303, 135082.	4.2	37
65	Anthropogenic and natural drivers of seesaw-like spatial patterns in precipitation mercury over western China. <i>Environmental Pollution</i> , 2022, 307, 119525.	3.7	2
66	Insights into kinetics of photocatalytic degradation of neurotoxic carbamazepine using magnetically separable mesoporous Fe ₃ O ₄ modified Al-doped ZnO: Delineating the degradation pathway, toxicity analysis and application in real hospital wastewater. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129250.	2.3	16
67	Biosorption of malachite green dye over <i>Spirulina platensis</i> mass: process modeling, factors optimization, kinetic, and isotherm studies. <i>Applied Water Science</i> , 2022, 12, .	2.8	14
68	Utilization of sludge-based alginate beads for the application of rare earth elements (REEs) recovery from wastewater: A waste to resource approach. <i>Journal of Cleaner Production</i> , 2022, , 132496.	4.6	1
69	Carbon nano-structures and functionalized associates: Adsorptive detoxification of organic and inorganic water pollutants. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109579.	1.8	16
70	Insights into the potential application of magnetic field in controlling sludge bulking and foaming: A review. <i>Bioresource Technology</i> , 2022, 358, 127416.	4.8	9
71	Selective Capture of Cu ²⁺ Using a Redox-Active CuS Cathode Material in Hybrid Capacitive Deionization. <i>ACS ES&T Engineering</i> , 2022, 2, 1722-1731.	3.7	10
72	Selectively capacitive recovery of rare earth elements from aqueous solution onto Lewis base sites of pyrrolic-N doped activated carbon electrodes. <i>Carbon</i> , 2022, 197, 282-291.	5.4	26

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73	Application of mullite-zeolite-alumina microfiltration membranes coated by SiO ₂ nanoparticles for separation of oil-in-water emulsions. <i>Journal of the European Ceramic Society</i> , 2022, 42, 6005-6014.	2.8	8
74	Integration of renewable energy in wastewater treatment during COVID-19 pandemic: Challenges, opportunities, and progressive research trends. , 2022, 3, 100036.		14
75	Review of Method and a New Tool for Decline and Inactive SARS-CoV-2 in Wastewater Treatment. , 2022, 3, 100037.		4
76	Recent advances in the synthesis and environmental catalytic applications of layered double hydroxides-based materials for degradation of emerging pollutants through advanced oxidation processes. <i>Materials Research Bulletin</i> , 2022, 154, 111924.	2.7	23
77	Metformin as an emerging concern in wastewater: Occurrence, analysis and treatment methods. <i>Environmental Research</i> , 2022, 213, 113613.	3.7	29
78	Highly Selective and Sensitive Voltammetric Method for the Detection of Catechol in Tea and Water Samples Using Poly(gibberellic acid)-Modified Carbon Paste Electrode. <i>ACS Omega</i> , 2022, 7, 24679-24687.	1.6	12
79	Pharmaceuticals measurements and estimation methods. , 2022, , 13-30.		1
80	A comprehensive review on analytical and equation derived multivariate chemometrics for the accurate interpretation of the degradation of aqueous contaminants. <i>Environmental Technology and Innovation</i> , 2022, 28, 102827.	3.0	5
81	RSM-Based Optimization of Fermentation Conditions and Kinetic Studies of Glutamic Acid and Lysine Production by <i>Corynebacterium glutamicum</i> . <i>Journal of Nanomaterials</i> , 2022, 2022, 1-6.	1.5	2
82	Synthesis and Potential of Bio Fabricated Silver Nanoparticles for Use as Functional Material Against Foodborne Pathogens. <i>Chemistry Africa</i> , 2022, 5, 1527-1543.	1.2	3
83	Modified bio-electrocoagulation system to treat the municipal wastewater for irrigation purposes. <i>Chemosphere</i> , 2022, 307, 135746.	4.2	3
84	A critical review on diverse technologies for advanced wastewater treatment during SARS-CoV-2 pandemic: What do we know?. <i>Journal of Hazardous Materials Advances</i> , 2022, 7, 100121.	1.2	10
85	CeO ₂ -encapsulated metal nanoparticles: Synthesis, properties and catalytic applications. <i>Inorganic Chemistry Communication</i> , 2022, 143, 109739.	1.8	11
86	Polycyclic aromatic hydrocarbons in breast milk of nursing mothers: Correlates with household fuel and cooking methods used in Uganda, East Africa. <i>Science of the Total Environment</i> , 2022, 842, 156892.	3.9	1
87	Major ions and irrigation water quality assessment of the Nepalese Himalayan rivers. <i>Environment, Development and Sustainability</i> , 2021, 23, 2668-2680.	2.7	23
88	The prospective utilization of Luffa fibres as a lignocellulosic bio-material for environmental remediation of aqueous media: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104691.	3.3	25
89	A systematic review and statistical analysis of nutrient recovery from municipal wastewater by electro dialysis. <i>Desalination</i> , 2021, 498, 114626.	4.0	59
90	Efficient removal of water bacteria and viruses using electrospun nanofibers. <i>Science of the Total Environment</i> , 2021, 751, 141673.	3.9	103

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91	Novel poly-D-galacturonic acid methyl ester grafted vinyl monomer polymer super green adsorbent via C-O strategic protrusion of methyl methacrylate (MMA) for removal of Sm (III) and Nd (III). Separation and Purification Technology, 2021, 258, 117474.	3.9	3
92	Application of a novel biochar adsorbent and membrane to the selective separation of phosphate from phosphate-rich wastewaters. Chemical Engineering Journal, 2021, 407, 126494.	6.6	49
93	Phosphate substances transformation and vivianite formation in P-Fe containing sludge during the transition process of aerobic and anaerobic conditions. Bioresource Technology, 2021, 319, 124259.	4.8	19
94	Organic photoelectrocatalytic filtration membrane originated from PEDOT modified PVDF. Chemical Engineering Journal, 2021, 405, 126954.	6.6	12
95	Ibuprofen degradation using a Co-doped carbon matrix derived from peat as a peroxymonosulphate activator. Environmental Research, 2021, 193, 110564.	3.7	39
96	Current progress in waste tire rubber devulcanization. Chemosphere, 2021, 265, 129033.	4.2	63
97	Multivariate data-based optimization of membrane adsorption process for wastewater treatment: Multi-layer perceptron adaptive neural network versus adaptive neural fuzzy inference system. Chemosphere, 2021, 267, 129268.	4.2	26
98	Recent advances in removal techniques of Cr(VI) toxic ion from aqueous solution: A comprehensive review. Journal of Molecular Liquids, 2021, 329, 115062.	2.3	332
99	Enhancement of nitrate removal and recovery from municipal wastewater through single- and multi-batch electrodialysis: Process optimisation and energy consumption. Desalination, 2021, 498, 114726.	4.0	41
100	Characterization and physicochemical aspects of novel cellulose-based layered double hydroxide nanocomposite for removal of antimony and fluoride from aqueous solution. Journal of Environmental Sciences, 2021, 102, 301-315.	3.2	25
101	Sorption, mechanism, and behavior of sulfate on various adsorbents: A critical review. Chemosphere, 2021, 263, 128064.	4.2	39
102	Microalgae harvesting using colloidal gas aphrons generated from single and mixed surfactants. Chemosphere, 2021, 273, 128568.	4.2	5
103	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. Environmental Chemistry Letters, 2021, 19, 583-611.	8.3	112
104	Application of the statistical analysis methodology for photodegradation of methyl orange using a new nanocomposite containing modified TiO ₂ semiconductor with SnO ₂ . International Journal of Environmental Analytical Chemistry, 2021, 101, 208-224.	1.8	71
105	Separation and concentration of rare earth elements from wastewater using electrodialysis technology. Separation and Purification Technology, 2021, 254, 117442.	3.9	39
106	Protein recovery as a resource from waste specifically via membrane technology "from waste to wonder. Environmental Science and Pollution Research, 2021, 28, 10262-10282.	2.7	20
107	Designed synthesis of perylene diimide-based supramolecular heterojunction with g-C ₃ N ₄ @MIL-125(Ti): insight into photocatalytic performance and mechanism. Journal of Materials Science: Materials in Electronics, 2021, 32, 19-32.	1.1	9
108	Positive environmental effects of the coronavirus 2020 episode: a review. Environment, Development and Sustainability, 2021, 23, 12738-12760.	2.7	61

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109	Evaluation of the available strategies to control the emission of microplastics into the aquatic environment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 18908-18917.	2.7	20
110	High selective photocatalytic CO ₂ conversion into liquid solar fuel over a cobalt porphyrin-based metal-organic framework. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 391-399.	1.6	10
111	Perception of the reciprocal influences of the formed interactions and hydrogen bonds, and adsorption energies between zinc-titanate nanoparticles/nano-silica/Dawson heteropolyacid hybrid-water on the positive alternation trends of the strength and properties of ordinary and self-compacting concrete: A systematic study through the quantum mechanical theory and experimental engineering studies. <i>Journal of Molecular Liquids</i> , 2021, 326, 115318.	2.3	2
112	Synthesis and Characterization of CeO ₂ /CuO Nanocomposites for Photocatalytic Degradation of Methylene Blue in Visible Light. <i>Coatings</i> , 2021, 11, 305.	1.2	29
113	The endangered African Great Ape: Pesticide residues in soil and plants consumed by Mountain Gorillas (<i>Gorilla beringei</i>) in Bwindi Impenetrable National Park, East Africa. <i>Science of the Total Environment</i> , 2021, 758, 143692.	3.9	10
114	Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3075-3114.	8.3	34
115	Novel adsorptive PVC nanofibrous/thiol-functionalized TNT composite UF membranes for effective dynamic removal of heavy metal ions. <i>Journal of Environmental Management</i> , 2021, 284, 111996.	3.8	34
116	Impacts alum DWTPs sludge discharge and changes in flow regime of the Nile River on the quality of surface water and cultivated soils in Fayoum watershed, Egypt. <i>Science of the Total Environment</i> , 2021, 766, 144333.	3.9	15
117	Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , 2021, 17, e2007840.	5.2	37
118	Recent advances in using of chitosan-based adsorbents for removal of pharmaceutical contaminants: A review. <i>Journal of Cleaner Production</i> , 2021, 291, 125880.	4.6	373
119	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.	3.7	234
120	Experimental and theoretical studies of Rhodamine B direct dye sorption onto clay-cellulose composite. <i>Journal of Molecular Liquids</i> , 2021, 328, 115165.	2.3	32
121	Sub-level engineering strategy of nitrogen-induced Bi ₂ O ₃ /g-C ₃ N ₄ : a versatile photocatalyst for oxidation and reduction. <i>Environmental Science and Pollution Research</i> , 2021, 28, 50747-50766.	2.7	11
122	Micro/nano-machines for spilled-oil cleanup and recovery: A review. <i>Chemosphere</i> , 2021, 271, 129516.	4.2	18
123	Multiple persistent organic pollutants in mothers' breastmilk: Implications for infant dietary exposure and maternal thyroid hormone homeostasis in Uganda, East Africa. <i>Science of the Total Environment</i> , 2021, 770, 145262.	3.9	15
124	New strategy to enhance heavy metal ions removal from synthetic wastewater by mercapto-functionalized hydrous manganese oxide via adsorption and membrane separation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 51808-51825.	2.7	12
125	Organochlorine pesticide residues in Uganda's honey as a bioindicator of environmental contamination and reproductive health implications to consumers. <i>Ecotoxicology and Environmental Safety</i> , 2021, 214, 112094.	2.9	14
126	Mercury sources and physicochemical characteristics in ice, snow, and meltwater of the Laohugou Glacier Basin, China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 51530-51543.	2.7	1

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127	Chitosan beads as a bioanode for simultaneous recovery of nutrients and energy from municipal wastewater using a microbial nutrient recovery cell. <i>Journal of Cleaner Production</i> , 2021, 298, 126756.	4.6	8
128	Recent Advances on Coagulation-Based Treatment of Wastewater: Transition from Chemical to Natural Coagulant. <i>Current Pollution Reports</i> , 2021, 7, 379-391.	3.1	52
129	Date Palm Fiber as a novel precursor for porous activated carbon: Optimization, characterization and its application as Tylosin antibiotic scavenger from aqueous solution. <i>Surfaces and Interfaces</i> , 2021, 24, 101047.	1.5	25
130	Climate-resilient strategies for sustainable management of water resources and agriculture. <i>Environmental Science and Pollution Research</i> , 2021, 28, 41576-41595.	2.7	78
131	Modelling and optimization of hexavalent chromium removal from aqueous solution by adsorption on low-cost agricultural waste biomass using response surface methodological approach. <i>Water Science and Technology</i> , 2021, 84, 552-575.	1.2	21
132	Effect of Mg ²⁺ ions on competitive metal ions adsorption/desorption on magnesium ferrite: Mechanism, reusability and stability studies. <i>Journal of Hazardous Materials</i> , 2021, 411, 124902.	6.5	15
133	Comparative overview of advanced oxidation processes and biological approaches for the removal pharmaceuticals. <i>Journal of Environmental Management</i> , 2021, 288, 112404.	3.8	109
134	Polycyclic aromatic hydrocarbons in sediments and fish species from the White Nile, East Africa: Bioaccumulation potential, source apportionment, ecological and health risk assessment. <i>Environmental Pollution</i> , 2021, 278, 116855.	3.7	23
135	Effect of magnetic field on biomass properties and their role in biodegradation under condition of low dissolved oxygen. <i>Applied Water Science</i> , 2021, 11, 1.	2.8	8
136	Novel coronavirus disease 2019 (COVID-19) pandemic: From transmission to control with an interdisciplinary vision. <i>Environmental Research</i> , 2021, 197, 111126.	3.7	73
137	Platinized titanium dioxide (Pt/TiO ₂) as a multi-functional catalyst for thermocatalysis, photocatalysis, and photothermal catalysis for removing air pollutants. <i>Applied Materials Today</i> , 2021, 23, 100993.	2.3	21
138	Effect of modified anode on bioenergy harvesting and nutrients removal in a microbial nutrient recovery cell. <i>Bioresource Technology</i> , 2021, 332, 125077.	4.8	10
139	Magnetic nanoadsorbents for micropollutant removal in real water treatment: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4393-4413.	8.3	51
140	Characteristics of dissolved organic carbon and nitrogen in precipitation in the northern Tibetan Plateau. <i>Science of the Total Environment</i> , 2021, 776, 145911.	3.9	8
141	Promoted three-way catalytic activity of the Co ₃ O ₄ /TiO ₂ catalyst by doping of CeO ₂ under real engine operating conditions. <i>Atmospheric Pollution Research</i> , 2021, 12, 101088.	1.8	3
142	Experimental Analysis of a Heat Pump Dryer with an External Desiccant Wheel Dryer. <i>Processes</i> , 2021, 9, 1216.	1.3	7
143	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021, 275, 130055.	4.2	89
144	Ionic liquid-based antimicrobial materials for water treatment, air filtration, food packaging and anticorrosion coatings. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102454.	7.0	43

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145	Synthesis, Characterization and Application of Trihexyl (Tetradecyl) Phosphonium Bromide as a Promising Solvent for Sulfur Extraction from Liquid Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16769-16779.	1.8	9
146	Adsorbents for real-scale water remediation: Gaps and the road forward. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105380.	3.3	21
147	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.	2.0	100
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