

Mika Sillanp

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

968
papers

40,874
citations

94
h-index

164
g-index

1,005
ext. papers

49,186
ext. citations

6.7
avg, IF

8.45
L-index

#	Paper	IF	Citations
968	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	1.6	1
967	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 ^{5.1}		
966	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	3.2	
965	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	6.8	
964	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	10.3	4
963	Single crystal X-ray structural dataset of 1,2,4-dithiazolium tetrafluoroborate.. <i>Data in Brief</i> , 2022 , 41, 107924	1.2	
962	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	5.1	0
961	Synergistic degradation of organic pollutants by poly (3,4-ethylenedioxythiophene) based photo-electrocatalysis. <i>Journal of Water Process Engineering</i> , 2022 , 45, 102494	6.7	1
960	Alternative cleaner production of sustainable concrete from waste foundry sand and slag. <i>Journal of Cleaner Production</i> , 2022 , 336, 130399	10.3	0
959	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	6.2	2
958	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	7.9	6
957	Applications of artificial intelligence in water treatment for optimization and automation of adsorption processes: Recent advances and prospects. <i>Chemical Engineering Journal</i> , 2022 , 427, 130011	14.7	27
956	Improved corrosion inhibition by heterocyclic compounds on mild steel in acid medium. <i>Corrosion Reviews</i> , 2022 , 40, 137-148	3.2	0
955	Export of Dissolved Organic Carbon from the Source Region of Yangtze River in the Tibetan Plateau. <i>Sustainability</i> , 2022 , 14, 2441	3.6	1
954	Enhanced bioenergy and nutrients recovery from wastewater using hybrid anodes in microbial nutrient recovery system. 2022 , 15, 19		
953	Global impact of COVID-19 on agriculture: role of sustainable agriculture and digital farming.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	6
952	Removal of Reactive Black 5 Dye by Banana Peel Biochar and Evaluation of Its Phytotoxicity on Tomato. <i>Sustainability</i> , 2022 , 14, 4176	3.6	1

951	Efficient Synthesis of Dihydropyrimidines Using a Highly Ordered Mesoporous Functionalized Pyridinium Organosilica. <i>Catalysts</i> , 2022 , 12, 350	4	
950	Persistent organic pollutants in water resources: Fate, occurrence, characterization and risk analysis.. <i>Science of the Total Environment</i> , 2022 , 154808	10.2	1
949	The stability of poly (3, 4-ethylenedioxythiophene) based on electrochemical polymerization and photoelectro-corrosion conditions. <i>Polymer Degradation and Stability</i> , 2022 , 198, 109881	4.7	0
948	Contamination, exposure, and health risk assessment of Hg in Pakistan: A review.. <i>Environmental Pollution</i> , 2022 , 301, 118995	9.3	4
947	Artificial neural network and statistical modelling of biosorptive removal of hexavalent chromium using macroalgal spent biomass.. <i>Chemosphere</i> , 2022 , 296, 133965	8.4	6
946	Mechanistic understanding of Nickel(II) adsorption onto fluorapatite-based natural phosphate via Rietveld refinement combined with Monte Carlo simulations. <i>Journal of Solid State Chemistry</i> , 2022 , 310, 123023	3.3	1
945	Metallic nanoparticles for catalytic reduction of toxic hexavalent chromium from aqueous medium: A state-of-the-art review.. <i>Science of the Total Environment</i> , 2022 , 154475	10.2	3
944	Synthetic organic antibiotics residues as emerging contaminants waste-to-resources processing for a circular economy in China: Challenges and perspective.. <i>Environmental Research</i> , 2022 , 113075	7.9	5
943	Effective adsorption of diclofenac and naproxen from water using fixed-bed column loaded with composite of heavy sugarcane ash and polyethylene terephthalate.. <i>Environmental Research</i> , 2022 , 211, 112971	7.9	
942	Microplastic Pollution in Water and Their Removal in Various Wastewater Treatment Plants. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2022 , 247-271	0.9	
941	Landfill leachate treatment using photocatalytic methods 2022 , 111-134		
940	Sustainable adsorbents for the removal of pharmaceuticals from wastewater: A review.. <i>Chemosphere</i> , 2022 , 134597	8.4	0
939	Remediation of pharmaceuticals from contaminated water by molecularly imprinted polymers: a review.. <i>Environmental Chemistry Letters</i> , 2022 , 1-36	13.3	2
938	Recent advances of bismuth titanate based photocatalysts engineering for enhanced organic contaminants oxidation in water: A review.. <i>Chemosphere</i> , 2022 , 134622	8.4	1
937	Protein nanofibrils as versatile and sustainable adsorbents for an effective removal of heavy metals from wastewater: A review.. <i>Chemosphere</i> , 2022 , 301, 134635	8.4	0
936	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 , 1	5.1	0
935	Recent advances in the application of magnetic bio-polymers as catalysts in multicomponent reactions.. <i>RSC Advances</i> , 2022 , 12, 12672-12701	3.7	2
934	Some Well-Known Alginate and Chitosan Modifications Used in Adsorption: A Review. <i>Water (Switzerland)</i> , 2022 , 14, 1353	3	6

933	Methylene blue adsorption on magnesium ferrite: Optimization study, kinetics and reusability. <i>Materials Today Communications</i> , 2022 , 103594	2.5	1
932	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. <i>Bioresource Technology</i> , 2022 , 355, 127303	11	2
931	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	5.6	0
930	Metal-organic framework-based materials for the abatement of air pollution and decontamination of wastewater. <i>Chemosphere</i> , 2022 , 135082	8.4	1
929	Anthropogenic and natural drivers of seesaw-like spatial patterns in precipitation mercury over western China. <i>Environmental Pollution</i> , 2022 , 307, 119525	9.3	1
928	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: Applied Interface Science</i> , 2022 , 618, 128258	5.1	0
927	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	10.3	0
926	Carbon nano-structures and functionalized associates: Adsorptive detoxification of organic and inorganic water pollutants. <i>Inorganic Chemistry Communication</i> , 2022 , 141, 109579	3.1	1
925	Insights into the potential application of magnetic field in controlling sludge bulking and foaming: A review. <i>Bioresource Technology</i> , 2022 , 358, 127416	11	0
924	Pharmaceuticals measurements and estimation methods 2022 , 13-30		
923	High-Sensitivity Biosensor Based on Glass Resonance PhC Cavities for Detection of Blood Component and Glucose Concentration in Human Urine. <i>Coatings</i> , 2021 , 11, 1555	2.9	3
922	Ultra-Sensitive Biosensor with Simultaneous Detection (of Cancer and Diabetes) and Analysis of Deformation Effects on Dielectric Rods in Optical Microstructure. <i>Coatings</i> , 2021 , 11, 1564	2.9	4
921	Adsorption isotherm models: A comprehensive and systematic review (2010-2020). <i>Science of the Total Environment</i> , 2021 , 812, 151334	10.2	16
920	Recent progress and challenges facing ballast water treatment - A review. <i>Chemosphere</i> , 2021 , 291, 132776	8.4	3
919	MXenes based nano-heterojunctions and composites for advanced photocatalytic environmental detoxification and energy conversion: A review. <i>Chemosphere</i> , 2021 , 291, 132923	8.4	5
918	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> , 2021 , 1-11	2.9	0
917	A novel Sm doped CrO sesquioxide-decorated MWCNTs heterostructured Fenton-like with sonophotocatalytic activities under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2021 , 426, 127812	12.8	0
916	Progress in valorisation of agriculture, aquaculture and shellfish biomass into biochemicals and biomaterials towards sustainable bioeconomy. <i>Chemosphere</i> , 2021 , 291, 133036	8.4	1

915	Synthesis of novel 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> , 2021 , 120241	8.3	0
914	Eco friendly synthesis and characterization of zinc oxide nanoparticles from Aegle marmelos and its cytotoxicity effects on MCF-7 cell lines. <i>Nanofabrication</i> , 2021 , 6, 44-51	4	2
913	A heterogeneous peroxymonosulfate catalyst built by Fe-based metal-organic framework for the dye degradation. <i>Journal of Environmental Management</i> , 2021 , 303, 113897	7.9	1
912	Photoelectrocatalytic mechanism of PEDOT modified filtration membrane.. <i>Science of the Total Environment</i> , 2021 , 152397	10.2	1
911	Waste-to-Resource: New application of modified mine silicate waste to remove Pb ion and methylene blue dye, adsorption properties, mechanism of action and recycling.. <i>Chemosphere</i> , 2021 , 292, 133412	8.4	1
910	Post-Treatment of Palm Oil Mill Effluent Using Immobilised Green Microalgae <i>Chlorococcum oleofaciens</i> . <i>Sustainability</i> , 2021 , 13, 11562	3.6	0
909	Shape Memory Adsorbents for Water Remediation: Recent Progress, Associated Hydrodynamics, and Research Needs. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1	2.6	1
908	Cellulose-based nanomaterials for water and wastewater treatments: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106626	6.8	6
907	Assessment of the health risk and geo-accumulation of toxic metals in agricultural soil and wheat, northern Iran. <i>Environmental Monitoring and Assessment</i> , 2021 , 193, 750	3.1	1
906	Microplastics in mangroves and coral reef ecosystems: a review. <i>Environmental Chemistry Letters</i> , 2021 , 20, 1-20	13.3	8
905	Structure-Based Long-Term Biodegradation of the Azo Dye: Insights from the Bacterial Community Succession and Efficiency Comparison. <i>Water (Switzerland)</i> , 2021 , 13, 3017	3	3
904	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> , 2021 , 807, 150878	10.2	4
903	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	6	2
902	Synthesis and Characterization of CeO ₂ /CuO Nanocomposites for Photocatalytic Degradation of Methylene Blue in Visible Light. <i>Coatings</i> , 2021 , 11, 305	2.9	13
901	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	10.2	2
900	Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3075-3114	13.3	13
899	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	7.9	17
898	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	10.2	4

897	Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , 2021 , 17, e2007840	11	11
896	Recent advances in using of chitosan-based adsorbents for removal of pharmaceutical contaminants: A review. <i>Journal of Cleaner Production</i> , 2021 , 291, 125880	10.3	155
895	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	7.9	116
894	Experimental and theoretical studies of Rhodamine B direct dye sorption onto clay-cellulose composite. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115165	6	9
893	Sub-level engineering strategy of nitrogen-induced BiO/g-CN: a versatile photocatalyst for oxidation and reduction. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 50747-50766	5.1	3
892	Micro/nano-machines for spilled-oil cleanup and recovery: A review. <i>Chemosphere</i> , 2021 , 271, 129516	8.4	7
891	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	10.2	4
890	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	5.1	3
889	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	7	1
888	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	5.1	1
887	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	10.3	3
886	Recent Advances on Coagulation-Based Treatment of Wastewater: Transition from Chemical to Natural Coagulant. <i>Current Pollution Reports</i> , 2021 , 7, 379-391	7.6	10
885	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	4.1	11
884	Climate-resilient strategies for sustainable management of water resources and agriculture. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 41576-41595	5.1	30
883	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	2.2	3
882	Effect of Mg ions on competitive metal ions adsorption/desorption on magnesium ferrite: Mechanism, reusability and stability studies. <i>Journal of Hazardous Materials</i> , 2021 , 411, 124902	12.8	8
881	Comparative overview of advanced oxidation processes and biological approaches for the removal pharmaceuticals. <i>Journal of Environmental Management</i> , 2021 , 288, 112404	7.9	29
880	Trends in Landfill Leachate Treatment Through Biological Biotechnology 2021 , 249-287		

879	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	9.3	7
878	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	5	2
877	Novel coronavirus disease 2019 (COVID-19) pandemic: From transmission to control with an interdisciplinary vision. <i>Environmental Research</i> , 2021 , 197, 111126	7.9	31
876	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	6.6	11
875	Effect of modified anode on bioenergy harvesting and nutrients removal in a microbial nutrient recovery cell. <i>Bioresource Technology</i> , 2021 , 332, 125077	11	4
874	Magnetic nanoadsorbents for micropollutant removal in real water treatment: a review. <i>Environmental Chemistry Letters</i> , 2021 , 1-21	13.3	11
873	Characteristics of dissolved organic carbon and nitrogen in precipitation in the northern Tibetan Plateau. <i>Science of the Total Environment</i> , 2021 , 776, 145911	10.2	5
872	Major ions and irrigation water quality assessment of the Nepalese Himalayan rivers. <i>Environment, Development and Sustainability</i> , 2021 , 23, 2668-2680	4.5	7
871	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	6.8	9
870	A systematic review and statistical analysis of nutrient recovery from municipal wastewater by electrodialysis. <i>Desalination</i> , 2021 , 498, 114626	10.3	18
869	Efficient removal of water bacteria and viruses using electrospun nanofibers. <i>Science of the Total Environment</i> , 2021 , 751, 141673	10.2	41
868	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). <i>Separation and Purification Technology</i> , 2021 , 258, 117474	8.3	0
867	Application of a novel biochar adsorbent and membrane to the selective separation of phosphate from phosphate-rich wastewaters. <i>Chemical Engineering Journal</i> , 2021 , 407, 126494	14.7	17
866	Phosphate substances transformation and vivianite formation in P-Fe containing sludge during the transition process of aerobic and anaerobic conditions. <i>Bioresource Technology</i> , 2021 , 319, 124259	11	9
865	Organic photoelectrocatalytic filtration membrane originated from PEDOT modified PVDF. <i>Chemical Engineering Journal</i> , 2021 , 405, 126954	14.7	5
864	Ibuprofen degradation using a Co-doped carbon matrix derived from peat as a peroxymonosulphate activator. <i>Environmental Research</i> , 2021 , 193, 110564	7.9	12
863	Current progress in waste tire rubber devulcanization. <i>Chemosphere</i> , 2021 , 265, 129033	8.4	18
862	Multivariate data-based optimization of membrane adsorption process for wastewater treatment: Multi-layer perceptron adaptive neural network versus adaptive neural fuzzy inference system. <i>Chemosphere</i> , 2021 , 267, 129268	8.4	9

861	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	6	127
860	Enhancement of nitrate removal and recovery from municipal wastewater through single- and multi-batch electro dialysis: Process optimisation and energy consumption. <i>Desalination</i> , 2021 , 498, 114726	10.3	11
859	Characterization and physicochemical aspects of novel cellulose-based layered double hydroxide nanocomposite for removal of antimony and fluoride from aqueous solution. <i>Journal of Environmental Sciences</i> , 2021 , 102, 301-315	6.4	9
858	Sorption, mechanism, and behavior of sulfate on various adsorbents: A critical review. <i>Chemosphere</i> , 2021 , 263, 128064	8.4	13
857	Microalgae harvesting using colloidal gas aphrons generated from single and mixed surfactants. <i>Chemosphere</i> , 2021 , 273, 128568	8.4	1
856	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	13.3	52
855	Application of the statistical analysis methodology for photodegradation of methyl orange using a new nanocomposite containing modified TiO ₂ semiconductor with SnO ₂ . <i>International Journal of Environmental Analytical Chemistry</i> , 2021 , 101, 208-224	1.8	53
854	Separation and concentration of rare earth elements from wastewater using electro dialysis technology. <i>Separation and Purification Technology</i> , 2021 , 254, 117442	8.3	17
853	Protein recovery as a resource from waste specifically via membrane technology-from waste to wonder. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 10262-10282	5.1	8
852	Designed synthesis of perylene diimide-based supramolecular heterojunction with g-C ₃ N ₄ @MIL-125(Ti): insight into photocatalytic performance and mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 19-32	2.1	1
851	Positive environmental effects of the coronavirus 2020 episode: a review. <i>Environment, Development and Sustainability</i> , 2021 , 23, 1-23	4.5	26
850	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	5.1	4
849	High selective photocatalytic CO conversion into liquid solar fuel over a cobalt porphyrin-based metal-organic framework. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 391-399	4.2	3
848	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	4.5	0
847	Experimental Analysis of a Heat Pump Dryer with an External Desiccant Wheel Dryer. <i>Processes</i> , 2021 , 9, 1216	2.9	2
846	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021 , 275, 130055	8.4	31
845	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	14.3	12
844	Adsorbents for real-scale water remediation: Gaps and the road forward. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105380	6.8	12

843	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	4.6	26
842	Synthesis and Characterization of Sr-Doped ZnSe Nanoparticles for Catalytic and Biological Activities. <i>Water (Switzerland)</i> , 2021 , 13, 2189	3	6
841	In situ biogenic synthesis of CuO nanoparticles over graphene oxide: A potential nanohybrid for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105590	6.8	3
840	Ce and Mn/bio-waste-based activated carbon composite: Characterization, phenol adsorption and regeneration. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105788	6.8	1
839	Extraction and Chemical Characterization of Humic Acid from Nitric Acid Treated Lignite and Bituminous Coal Samples. <i>Sustainability</i> , 2021 , 13, 8969	3.6	7
838	Investigation of Bioimpacts of Metallic and Metallic Oxide Nanostructured Materials: Size, Shape, Chemical Composition, and Surface Functionality: A Review. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2100112	3.1	0
837	Chitosan oligosaccharide/silica nanoparticles hybrid porous gel for mercury adsorption and detection. <i>Materials Today Communications</i> , 2021 , 28, 102707	2.5	2
836	Trimetallic@Cyclodextrin Nanocomposite: Photocatalyst for Degradation of Amoxicillin and Catalyst for Esterification Reactions. <i>Journal of Chemistry</i> , 2021 , 2021, 1-14	2.3	2
835	Current progress in polymeric graphitic carbon nitride-based photocatalysts for dye degradation. <i>Inorganic Chemistry Communication</i> , 2021 , 131, 108786	3.1	4
834	Investigating the effectiveness of nanotechnologies in environmental health with an emphasis on environmental health journals. <i>Life Sciences, Society and Policy</i> , 2021 , 17, 8	3.2	1
833	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> , 2021 , 28, 61969-61978	5.1	4
832	Sequential impregnation and sol-gel synthesis of Fe-ZnO over hydrophobic silica aerogel as a floating photocatalyst with highly enhanced photodecomposition of BTX compounds from water. <i>Solar Energy</i> , 2021 , 225, 344-356	6.8	11
831	Properties, synthesis, and recent advancement in photocatalytic applications of graphdiyne: A review. <i>Separation and Purification Technology</i> , 2021 , 281, 119825	8.3	6
830	Development of a new composite ceramic membrane from mullite, silicon carbide and activated carbon for treating greywater. <i>Ceramics International</i> , 2021 , 47, 34667-34667	5.1	3
829	Synthesis of a novel SnO ₂ /graphene-like carbon/TiO ₂ electrodes for the degradation of recalcitrant emergent pharmaceutical pollutants in a photo-electrocatalytic system. <i>Journal of Cleaner Production</i> , 2021 , 313, 127915	10.3	9
828	Montmorillonite-anchored magnetite nanocomposite for recovery of ammonium from stormwater and its reuse in adsorption of Sc ³⁺ . <i>Nanotechnology for Environmental Engineering</i> , 2021 , 6, 1	5.1	3
827	Microplastics pollution in the Brahmaputra River and the Indus River of the Indian Himalaya. <i>Science of the Total Environment</i> , 2021 , 789, 147968	10.2	11
826	Heterogeneous UV-Switchable Au nanoparticles decorated tungstophosphoric acid/TiO for efficient photocatalytic degradation process. <i>Chemosphere</i> , 2021 , 281, 130795	8.4	49

825	Gd ³⁺ doped BiVO ₄ and visible light-emitting diodes (LED) for photocatalytic decomposition of bisphenol A, bisphenol S and bisphenol AF in water. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105842	6.8	2
824	A systematic diagnosis of state of the art in the use of electrocoagulation as a sustainable technology for pollutant treatment: An updated review. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101353	4.7	10
823	An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <i>Chemosphere</i> , 2021 , 280, 130907	8.4	19
822	Biochar and activated carbon derivatives of lignocellulosic fibers towards adsorptive removal of pollutants from aqueous systems: Critical study and future insight. <i>Separation and Purification Technology</i> , 2021 , 274, 119062	8.3	16
821	Sun-light driven photo degradation of organic dyes from wastewater on precipitation Ag ₂ CrO ₄ over SiO ₂ -aerogel and nano silica. <i>Inorganic Chemistry Communication</i> , 2021 , 133, 108877	3.1	6
820	Enhanced ammonium removal and recovery from municipal wastewater by asymmetric CDI cell equipped with oxygen functionalized carbon electrode. <i>Separation and Purification Technology</i> , 2021 , 274, 119064	8.3	0
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