Wen Liu

List of Publications by Year
in descending order

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229 papers	15,768 citations	10389 72 h-index	20358 116 g-index
232 all docs	232 docs citations	232 times ranked	11664 citing authors

#	Article	IF	Citations
1	Nanoporous Anatase TiO₂ Mesocrystals: Additive-Free Synthesis, Remarkable Crystalline-Phase Stability, and Improved Lithium Insertion Behavior. Journal of the American Chemical Society, 2011, 133, 933-940.	13.7	598
2	An overview of preparation and applications of stabilized zero-valent iron nanoparticles for soil and groundwater remediation. Water Research, 2016, 100, 245-266.	11.3	530
3	Visible-light-driven photocatalytic degradation of diclofenac by carbon quantum dots modified porous g-C3N4: Mechanisms, degradation pathway and DFT calculation. Water Research, 2019, 151, 8-19.	11.3	520
4	Synthesis and Electrochemical Studies of Spinel Phase LiMn2â€‰Oâ€‰4 Cathode Materials Prepared by the Pechini Process. Journal of the Electrochemical Society, 1996, 143, 879-884.	2.9	369
5	Advanced Oxidation Process with Peracetic Acid and Fe(II) for Contaminant Degradation. Environmental Science & Technology, 2019, 53, 13312-13322.	10.0	294
6	Photocatalysis-activated SR-AOP over PDINH/MIL-88A(Fe) composites for boosted chloroquine phosphate degradation: Performance, mechanism, pathway and DFT calculations. Applied Catalysis B: Environmental, 2021, 293, 120229.	20.2	288
7	Introducing Fe²⁺ into Nickelâ€“Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. Angewandte Chemie - International Edition, 2018, 57, 9392-9396.	13.8	284
8	Influence of pH, ionic strength and humic acid on competitive adsorption of Pb(II), Cd(II) and Cr(III) onto titanate nanotubes. Chemical Engineering Journal, 2013, 215-216, 366-374.	12.7	273
9	Visible-Light-Driven Nitrogen Fixation Catalyzed by Bi₅O₇Br Nanostructures: Enhanced Performance by Oxygen Vacancies. Journal of the American Chemical Society, 2020, 142, 12430-12439.	13.7	260
10	Synergy of photocatalysis and adsorption for simultaneous removal of Cr(VI) and Cr(III) with TiO2 and titanate nanotubes. Water Research, 2014, 53, 12-25.	11.3	252
11	Adsorption of Pb2+, Cd2+, Cu2+ and Cr3+ onto titanate nanotubes: Competition and effect of inorganic ions. Science of the Total Environment, 2013, 456-457, 171-180.	8.0	232
12	Highly active WO3@anatase-SiO2 aerogel for solar-light-driven phenanthrene degradation: Mechanism insight and toxicity assessment. Water Research, 2019, 162, 369-382.	11.3	225
13	Application of nanotechnologies for removing pharmaceutically active compounds from water: development and future trends. Environmental Science: Nano, 2018, 5, 27-47.	4.3	211
14	2D/1D graphitic carbon nitride/titanate nanotubes heterostructure for efficient photocatalysis of sulfamethazine under solar light: Catalytic â€œhot spotsâ€•at the rutileâ€“anataseâ€“titanate interfaces. Applied Catalysis B: Environmental, 2020, 263, 118357.	20.2	211
15	Enhanced Oxidation of Organic Contaminants by Iron(II)-Activated Periodate: The Significance of High-Valent Ironâ€“Oxo Species. Environmental Science & Technology, 2021, 55, 7634-7642.	10.0	208
16	Cobalt/Peracetic Acid: Advanced Oxidation of Aromatic Organic Compounds by Acetylperoxyl Radicals. Environmental Science & Technology, 2020, 54, 5268-5278.	10.0	200
17	Silicate-Enhanced Heterogeneous Flow-Through Electro-Fenton System Using Iron Oxides under Nanoconfinement. Environmental Science & Technology, 2021, 55, 4045-4053.	10.0	192
18	Correlation of Active Sites to Generated Reactive Species and Degradation Routes of Organics in Peroxymonosulfate Activation by Co-Loaded Carbon. Environmental Science & Technology, 2021, 55, 16163-16174.	10.0	189

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19	Mechanism of the Electrochemical Insertion of Lithium into LiMn2â€‰Oâ€‰4 Spinels. Journal of the Electrochemical Society, 1998, 145, 459-465.	2.9	188
20	Accurate identification of radicals by in-situ electron paramagnetic resonance in ultraviolet-based homogenous advanced oxidation processes. Water Research, 2022, 221, 118747.	11.3	176
21	Bifunctional Bi12O17Cl2/MIL-100(Fe) composites toward photocatalytic Cr(VI) sequestration and activation of persulfate for bisphenol A degradation. Science of the Total Environment, 2021, 752, 141901.	8.0	175
22	An overview of nanomaterials applied for removing dyes from wastewater. Environmental Science and Pollution Research, 2017, 24, 15882-15904.	5.3	172
23	Degradation of acetaminophen by activated peroxymonosulfate using Co(OH)2 hollow microsphere supported titanate nanotubes: Insights into sulfate radical production pathway through CoOH+ activation. Chemical Engineering Journal, 2021, 406, 126877.	12.7	169
24	Effects of Molecular Structure on Organic Contaminantsâ€™ Degradation Efficiency and Dominant ROS in the Advanced Oxidation Process with Multiple ROS. Environmental Science & Technology, 2022, 56, 8784-8795.	10.0	161
25	Insights into heterogeneous catalytic activation of peroxymonosulfate by natural chalcopyrite: pH-dependent radical generation, degradation pathway and mechanism. Chemical Engineering Journal, 2020, 397, 125387.	12.7	157
26	Adsorption of U(VI) by multilayer titanate nanotubes: Effects of inorganic cations, carbonate and natural organic matter. Chemical Engineering Journal, 2016, 286, 427-435.	12.7	156
27	The synthesis strategies and photocatalytic performances of TiO2/MOFs composites: A state-of-the-art review. Chemical Engineering Journal, 2020, 391, 123601.	12.7	155
28	Insights into catalytic activation of peroxymonosulfate for carbamazepine degradation by MnO2 nanoparticles in-situ anchored titanate nanotubes: Mechanism, ecotoxicity and DFT study. Journal of Hazardous Materials, 2021, 402, 123779.	12.4	141
29	Interface Engineering of Co(OH)₂ Nanosheets Growing on the KNbO₃ Perovskite Based on Electronic Structure Modulation for Enhanced Peroxymonosulfate Activation. Environmental Science & Technology, 2022, 56, 5200-5212.	10.0	136
30	Carbon quantum dots modified tubular g-C3N4 with enhanced photocatalytic activity for carbamazepine elimination: Mechanisms, degradation pathway and DFT calculation. Journal of Hazardous Materials, 2020, 381, 120957.	12.4	134
31	Insights into the Electron-Transfer Mechanism of Permanganate Activation by Graphite for Enhanced Oxidation of Sulfamethoxazole. Environmental Science & Technology, 2021, 55, 9189-9198.	10.0	131
32	Ultrastrong, Stiff and Multifunctional Carbon Nanotube Composites. Materials Research Letters, 2013, 1, 19-25.	8.7	130
33	A new type of cobalt-deposited titanate nanotubes for enhanced photocatalytic degradation of phenanthrene. Applied Catalysis B: Environmental, 2016, 187, 134-143.	20.2	128
34	Immobilization of uranium(VI) by niobate/titanate nanoflakes heterojunction through combined adsorption and solar-light-driven photocatalytic reduction. Applied Catalysis B: Environmental, 2018, 231, 11-22.	20.2	128
35	Activation of peroxydisulfate by V-Fe concentrate ore for enhanced degradation of carbamazepine: Surface â‰¡V(III) and â‰¡V(IV) as electron donors promoted the regeneration of â‰¡Fe(II). Applied Catalysis B: Environmental, 2021, 282, 119559.	20.2	128
36	A novel electrocatalytic filtration system with carbon nanotube supported nanoscale zerovalent copper toward ultrafast oxidation of organic pollutants. Water Research, 2021, 194, 116961.	11.3	123

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37	Photocatalytic degradation of amoxicillin by carbon quantum dots modified K2Ti6O13 nanotubes: Effect of light wavelength. Chinese Chemical Letters, 2019, 30, 1214-1218.	9.0	120
38	Facile synthesis of magnetic Fe3O4@BiOI@AgI for water decontamination with visible light irradiation: Different mechanisms for different organic pollutants degradation and bacterial disinfection. Water Research, 2018, 137, 120-129.	11.3	117
39	Photocatalysis of bisphenol A by an easy-settling titania/titanate composite: Effects of water chemistry factors, degradation pathway and theoretical calculation. Environmental Pollution, 2018, 232, 580-590.	7.5	116
40	Magnetic Fe3O4-deposited flower-like MoS2 nanocomposites for the Fenton-like Escherichia coli disinfection and diclofenac degradation. Journal of Hazardous Materials, 2020, 385, 121604.	12.4	116
41	Highly efficient adsorption of Cr(VI) from aqueous solutions by amino-functionalized titanate nanotubes. Chemical Engineering Journal, 2013, 225, 153-163.	12.7	112
42	Efficient activation of peroxymonosulfate by hollow cobalt hydroxide for degradation of ibuprofen and theoretical study. Chinese Chemical Letters, 2019, 30, 2191-2195.	9.0	110
43	Photocatalytic degradation of ofloxacin by perovskite-type NaNbO3 nanorods modified g-C3N4 heterojunction under simulated solar light: Theoretical calculation, ofloxacin degradation pathways and toxicity evolution. Chemical Engineering Journal, 2020, 400, 125918.	12.7	110
44	Newly designed primer pair revealed dominant and diverse comammox amoA gene in full-scale wastewater treatment plants. Bioresource Technology, 2018, 270, 580-587.	9.6	107
45	Visible light photocatalytic degradation of sulfanilamide enhanced by Mo doping of BiOBr nanoflowers. Journal of Hazardous Materials, 2022, 424, 127563.	12.4	104
46	Piezo-activation of peroxymonosulfate for benzothiazole removal in water. Journal of Hazardous Materials, 2020, 393, 122448.	12.4	102
47	Photocatalytic transformation fate and toxicity of ciprofloxacin related to dissociation species: Experimental and theoretical evidences. Water Research, 2020, 185, 116286.	11.3	99
48	Simultaneous Cr(VI) reduction and Cr(III) removal of bifunctional MOF/Titanate nanotube composites. Environmental Pollution, 2019, 249, 502-511.	7.5	97
49	Synergistic adsorption of Cu(II) and photocatalytic degradation of phenanthrene by a jaboticaba-like TiO2/titanate nanotube composite: An experimental and theoretical study. Chemical Engineering Journal, 2019, 358, 1155-1165.	12.7	97
50	Enhanced activation of molecular oxygen and degradation of tetracycline over Cu-S4 atomic clusters. Applied Catalysis B: Environmental, 2020, 272, 118966.	20.2	97
51	Electrochemical Characteristics of Spinel Phase LiMn2â€‰Oâ€‰4â€Based Cathode Materials Prepared by the Pechini Process: Influence of Firing Temperature and Dopants. Journal of the Electrochemical Society, 1996, 143, 3590-3596.	2.9	95
52	Adsorption of Pb(II), Cd(II) and Zn(II) by extracellular polymeric substances extracted from aerobic granular sludge: Efficiency of protein. Journal of Environmental Chemical Engineering, 2015, 3, 1223-1232.	6.7	95
53	Adsorption mechanisms of thallium(I) and thallium(III) by titanate nanotubes: Ion-exchange and co-precipitation. Journal of Colloid and Interface Science, 2014, 423, 67-75.	9.4	94
54	Adsorption and desorption of Cd(II) onto titanate nanotubes and efficient regeneration of tubular structures. Journal of Hazardous Materials, 2013, 250-251, 379-386.	12.4	93

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55	Superior removal of inorganic and organic arsenic pollutants from water with MIL-88A(Fe) decorated on cotton fibers. Chemosphere, 2020, 254, 126829.	8.2	93
56	Simultaneous removal of Cr(VI) and 4-chlorophenol through photocatalysis by a novel anatase/titanate nanosheet composite: Synergetic promotion effect and autosynchronous doping. Journal of Hazardous Materials, 2016, 317, 385-393.	12.4	92
57	Simultaneous adsorption of uranium(VI) and 2-chlorophenol by activated carbon fiber supported/modified titanate nanotubes (TNTs/ACF): Effectiveness and synergistic effects. Chemical Engineering Journal, 2021, 406, 126752.	12.7	89
58	Mesoporous MgO promoted with NaNO3/NaNO2 for rapid and high-capacity CO2 capture at moderate temperatures. Chemical Engineering Journal, 2018, 332, 216-226.	12.7	88
59	The degradation pathways of carbamazepine in advanced oxidation process: A mini review coupled with DFT calculation. Science of the Total Environment, 2021, 779, 146498.	8.0	88
60	Comparison on aggregation and sedimentation of titanium dioxide, titanate nanotubes and titanate nanotubes-TiO2: Influence of pH, ionic strength and natural organic matter. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 319-328.	4.7	87
61	Photocatalytic degradation of phenanthrene by graphite oxide-TiO2-Sr(OH)2/SrCO3 nanocomposite under solar irradiation: Effects of water quality parameters and predictive modeling. Chemical Engineering Journal, 2018, 335, 290-300.	12.7	87
62	A concentrate-and-destroy technique for degradation of perfluorooctanoic acid in water using a new adsorptive photocatalyst. Water Research, 2020, 185, 116219.	11.3	87
63	Pre-accumulation and in-situ destruction of diclofenac by a photo-regenerable activated carbon fiber supported titanate nanotubes composite material: Intermediates, DFT calculation, and ecotoxicity. Journal of Hazardous Materials, 2020, 400, 123225.	12.4	86
64	Novel CuCo₂O₄ Composite Spinel with a Meso-Macroporous Nanosheet Structure for Sulfate Radical Formation and Benzophenone-4 Degradation: Interface Reaction, Degradation Pathway, and DFT Calculation. ACS Applied Materials & Interfaces, 2020, 12, 20522-20535.	8.0	83
65	Visible-light degradation of antibiotics catalyzed by titania/zirconia/graphitic carbon nitride ternary nanocomposites: a combined experimental and theoretical study. Applied Catalysis B: Environmental, 2022, 300, 120633.	20.2	82
66	Adsorption of Cu(II) and Cd(II) on titanate nanomaterials synthesized via hydrothermal method under different NaOH concentrations: Role of sodium content. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 452, 138-147.	4.7	80
67	High-Capacity and Photoregenerable Composite Material for Efficient Adsorption and Degradation of Phenanthrene in Water. Environmental Science & Technology, 2016, 50, 11174-11183.	10.0	79
68	Tunable Covalent Organic Frameworks with Different Heterocyclic Nitrogen Locations for Efficient Cr(VI) Reduction, Escherichia coli Disinfection, and Paracetamol Degradation under Visible-Light Irradiation. Environmental Science & Technology, 2021, 55, 5371-5381.	10.0	79
69	Application of Stabilized Nanoparticles for In Situ Remediation of Metal-Contaminated Soil and Groundwater: a Critical Review. Current Pollution Reports, 2015, 1, 280-291.	6.6	78
70	Hydrothermal synthesis of graphene grafted titania/titanate nanosheets for photocatalytic degradation of 4-chlorophenol: Solar-light-driven photocatalytic activity and computational chemistry analysis. Chemical Engineering Journal, 2018, 331, 685-694.	12.7	75
71	Oxidation of amino acids by peracetic acid: Reaction kinetics, pathways and theoretical calculations. Water Research X, 2018, 1, 100002.	6.1	75
72	Tunable active sites on biogas digestate derived biochar for sulfanilamide degradation by peroxymonosulfate activation. Journal of Hazardous Materials, 2022, 421, 126794.	12.4	75

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73	N2O and NO emission from a biological aerated filter treating coking wastewater: Main source and microbial community. Journal of Cleaner Production, 2019, 213, 365-374.	9.3	74
74	AgI modified covalent organic frameworks for effective bacterial disinfection and organic pollutant degradation under visible light irradiation. Journal of Hazardous Materials, 2020, 398, 122865.	12.4	73
75	Activation of sulfite by single-atom Fe deposited graphitic carbon nitride for diclofenac removal: The synergetic effect of transition metal and photocatalysis. Chemical Engineering Journal, 2021, 407, 127167.	12.7	73
76	Insights into the role of in-situ and ex-situ hydrogen peroxide for enhanced ferrate(VI) towards oxidation of organic contaminants. Water Research, 2021, 203, 117548.	11.3	72
77	Selective and irreversible adsorption of mercury(<scp>ii</scp>) from aqueous solution by a flower-like titanate nanomaterial. Journal of Materials Chemistry A, 2015, 3, 17676-17684.	10.3	71
78	In-situ construction of Co(OH)2 nanoparticles decorated urchin-like WO3 for highly efficient degradation of sulfachloropyridazine via peroxymonosulfate activation: Intermediates and DFT calculation. Chemical Engineering Journal, 2020, 395, 125186.	12.7	70
79	Removal of coexisting Cr(VI) and 4-chlorophenol through reduction and Fenton reaction in a single system. Chemical Engineering Journal, 2014, 248, 89-97.	12.7	66
80	Occurrence and Fate of Antibiotics in the Aqueous Environment and Their Removal by Constructed Wetlands in China: A review. Pedosphere, 2017, 27, 42-51.	4.0	65
81	Metagenomic insights into the profile of antibiotic resistomes in a large drinking water reservoir. Environment International, 2020, 136, 105449.	10.0	65
82	The mechanics of PLGA nanofiber scaffolds with biomimetic gradients in mineral for tendon-to-bone repair. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 40, 59-68.	3.1	64
83	Biosynthesis of palladium nanoparticles usingShewanella loihicaPV-4 for excellent catalytic reduction of chromium(<scp>vi</scp>). Environmental Science: Nano, 2018, 5, 730-739.	4.3	64
84	Different mechanisms for E. coli disinfection and BPA degradation by CeO2-AgI under visible light irradiation. Chemical Engineering Journal, 2019, 371, 750-758.	12.7	64
85	Natural organic matter resistant powder activated charcoal supported titanate nanotubes for adsorption of Pb(II). Chemical Engineering Journal, 2017, 315, 191-200.	12.7	63
86	Type-II surface heterojunction of bismuth-rich Bi4O5Br2 on nitrogen-rich g-C3N5 nanosheets for efficient photocatalytic degradation of antibiotics. Separation and Purification Technology, 2022, 280, 119772.	7.9	62
87	Adsorptive removal of ciprofloxacin with different dissociated species onto titanate nanotubes. Journal of Cleaner Production, 2021, 278, 123924.	9.3	61
88	Can we reach very high intensity in air with femtosecond PW laser pulses?. Laser Physics, 2009, 19, 1776-1792.	1.2	60
89	Dual-Enhanced Photocatalytic Activity of Fe-Deposited Titanate Nanotubes Used for Simultaneous Removal of As(III) and As(V). ACS Applied Materials & Interfaces, 2015, 7, 19726-19735.	8.0	60
90	Graphene modified anatase/titanate nanosheets with enhanced photocatalytic activity for efficient degradation of sulfamethazine under simulated solar light. Chemosphere, 2019, 233, 198-206.	8.2	60

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91	Enhanced immobilization of U(VI) using a new type of FeS-modified Fe0 core-shell particles. Chemical Engineering Journal, 2019, 359, 1617-1628.	12.7	60
92	Surface modification of BiOBr/TiO2 by reduced AgBr for solar-driven PAHs degradation: Mechanism insight and application assessment. Journal of Hazardous Materials, 2021, 412, 125221.	12.4	58
93	Experimental evidences and theoretical calculations on phenanthrene degradation in a solar-light-driven photocatalysis system using silica aerogel supported TiO2 nanoparticles: Insights into reactive sites and energy evolution. Chemical Engineering Journal, 2021, 419, 129605.	12.7	56
94	Porous tube-like ZnS derived from rod-like ZIF-L for photocatalytic Cr(VI) reduction and organic pollutants degradation. Environmental Pollution, 2020, 256, 113417.	7.5	55
95	High active amorphous Co(OH)2 nanocages as peroxymonosulfate activator for boosting acetaminophen degradation and DFT calculation. Chinese Chemical Letters, 2021, 32, 1814-1818.	9.0	53
96	Immobilization of U(VI) by stabilized iron sulfide nanoparticles: Water chemistry effects, mechanisms, and long-term stability. Chemical Engineering Journal, 2020, 393, 124692.	12.7	52
97	High-valent cobalt-oxo species triggers hydroxyl radical for collaborative environmental decontamination. Applied Catalysis B: Environmental, 2022, 300, 120722.	20.2	52
98	Photocatalytic removal of diclofenac by Ti doped BiOI microspheres under visible light irradiation: Kinetics, mechanism, and pathways. Journal of Molecular Liquids, 2019, 275, 807-814.	4.9	50
99	Investigation on Proton Conductivity of La₂Ce₂O₇ in Wet Atmosphere: Dependence on Water Vapor Partial Pressure. Fuel Cells, 2012, 12, 457-463.	2.4	49
100	Degradation of petroleum hydrocarbons in seawater by simulated surface-level atmospheric ozone: Reaction kinetics and effect of oil dispersant. Marine Pollution Bulletin, 2018, 135, 427-440.	5.0	49
101	Reduction of nitrobenzene in aqueous and soil phases using carboxymethyl cellulose stabilized zero-valent iron nanoparticles. Chemical Engineering Journal, 2018, 332, 227-236.	12.7	48
102	Immobilized N-C/Co derived from ZIF-67 as PS-AOP catalyst for effective tetracycline matrix elimination: From batch to continuous process. Chemical Engineering Journal, 2022, 450, 138082.	12.7	48
103	A carbon-rich g-C3N4 with promoted charge separation for highly efficient photocatalytic degradation of amoxicillin. Chinese Chemical Letters, 2021, 32, 2787-2791.	9.0	47
104	Study of residual oil in Bay Jimmy sediment 5 years after the Deepwater Horizon oil spill: Persistence of sediment retained oil hydrocarbons and effect of dispersants on desorption. Science of the Total Environment, 2018, 618, 1244-1253.	8.0	46
105	Efficient activation of ferrate(VI) by colloid manganese dioxide: Comprehensive elucidation of the surface-promoted mechanism. Water Research, 2022, 215, 118243.	11.3	46
106	Catalytic hydrodechlorination of triclosan using a new class of anion-exchange-resin supported palladium catalysts. Water Research, 2017, 120, 199-210.	11.3	45
107	Effects of oil dispersants on settling of marine sediment particles and particle-facilitated distribution and transport of oil components. Marine Pollution Bulletin, 2017, 114, 408-418.	5.0	44
108	A new type of activated carbon fibre supported titanate nanotubes for high-capacity adsorption and degradation of methylene blue. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 605-614.	4.7	44

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109	Hydrogen atom abstraction mechanism for organic compound oxidation by acetylperoxyl radical in Co(II)/peracetic acid activation system. Water Research, 2022, 212, 118113.	11.3	44
110	Reductive immobilization and long-term remobilization of radioactive pertechnetate using bio-macromolecules stabilized zero valent iron nanoparticles. Chinese Chemical Letters, 2019, 30, 2163-2168.	9.0	43
111	Different degradation mechanisms of carbamazepine and diclofenac by single-atom Barium embedded g-C3N4: the role of photosensitation-like mechanism. Journal of Hazardous Materials, 2021, 416, 125936.	12.4	43
112	Adsorption and solid-phase photocatalytic degradation of perfluorooctane sulfonate in water using gallium-doped carbon-modified titanate nanotubes. Chemical Engineering Journal, 2021, 421, 129676.	12.7	43
113	Arsenate adsorption onto Fe-TNTs prepared by a novel waterâ€“ethanol hydrothermal method: Mechanism and synergistic effect. Journal of Colloid and Interface Science, 2015, 440, 253-262.	9.4	42
114	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. Environmental Science & Technology, 2019, 53, 11043-11055.	10.0	42
115	Ternary TiO2/WO3/CQDs nanocomposites for enhanced photocatalytic mineralization of aqueous cephalexin: Degradation mechanism and toxicity evaluation. Chemical Engineering Journal, 2021, 412, 128679.	12.7	40
116	Synthetic solid oxide sorbents for CO₂ capture: state-of-the art and future perspectives. Journal of Materials Chemistry A, 2022, 10, 1682-1705.	10.3	40
117	Dispersion, sorption and photodegradation of petroleum hydrocarbons in dispersant-seawater-sediment systems. Marine Pollution Bulletin, 2016, 109, 526-538.	5.0	39
118	Eliminating tetracycline antibiotics matrix via photoactivated sulfate radical-based advanced oxidation process over the immobilized MIL-88A: Batch and continuous experiments. Chemical Engineering Journal, 2022, 431, 133213.	12.7	39
119	Effective elimination of tetracycline antibiotics via photoactivated SR-AOP over vivianite: A new application approach of phosphorus recovery product from WWTP. Chemical Engineering Journal, 2022, 449, 137784.	12.7	39
120	Application of Discrete Element Method for Continuum Dynamic Problems. Archive of Applied Mechanics, 2006, 76, 229-243.	2.2	38
121	Highly efficient AgBr/h-MoO3 with charge separation tuning for photocatalytic degradation of trimethoprim: Mechanism insight and toxicity assessment. Science of the Total Environment, 2021, 781, 146754.	8.0	38
122	Mutual promotion mechanism for adsorption of coexisting Cr(III) and Cr(VI) onto titanate nanotubes. Chemical Engineering Journal, 2013, 232, 228-236.	12.7	37
123	Capillary Rise of Liquids over a Microstructured Solid Surface. Langmuir, 2011, 27, 14260-14266.	3.5	36
124	Absorption of Cr(VI) onto amino-modified titanate nanotubes using 2-Bromoethylamine hydrobromide through SN2 reaction. Journal of Colloid and Interface Science, 2013, 401, 133-140.	9.4	36
125	Transformation of halobenzoquinones with the presence of amino acids in water: Products, pathways and toxicity. Water Research, 2017, 122, 299-307.	11.3	36
126	Reusable Platinum-Deposited Anatase/Hexa-Titanate Nanotubes: Roles of Reduced and Oxidized Platinum on Enhanced Solar-Light-Driven Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2017, 5, 547-555.	6.7	35

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127	Fabrication of niobium doped titanate nanoflakes with enhanced visible-light-driven photocatalytic activity for efficient ibuprofen degradation. Chinese Chemical Letters, 2019, 30, 2177-2180.	9.0	35
128	Ferric oxide nanoclusters with low-spin FeIII anchored g-C3N4 rod for boosting photocatalytic activity and degradation of diclofenac in water under solar light. Applied Catalysis B: Environmental, 2022, 317, 121725.	20.2	35
129	Short-cut synthesis of tri-titanate nanotubes using nano-anatase: Mechanism and application as an excellent adsorbent. Microporous and Mesoporous Materials, 2015, 213, 40-47.	4.4	34
130	Role of extracellular polymeric substances in biosorption of Pb2+ by a high metal ion tolerant fungal strain Aspergillus niger PTN31. Journal of Environmental Chemical Engineering, 2018, 6, 2733-2742.	6.7	34
131	Sea-Buckthorn-Like MnO‹sub›2‹/sub› Decorated Titanate Nanotubes with Oxidation Property and Photocatalytic Activity for Enhanced Degradation of 17Î²-Estradiol under Solar Light. ACS Applied Energy Materials, 2018, 1, 2123-2133.	5.1	34
132	Single-atom silver induced amorphization of hollow tubular g-C3N4 for enhanced visible light-driven photocatalytic degradation of naproxen. Science of the Total Environment, 2020, 742, 140642.	8.0	34
133	Oxygen defective titanate nanotubes induced by iron deposition for enhanced peroxymonosulfate activation and acetaminophen degradation: Mechanisms, water chemistry effects, and theoretical calculation. Journal of Hazardous Materials, 2021, 418, 126180.	12.4	33
134	Capillary Driven Molten Metal Flow over Topographically Complex Substrates. Langmuir, 2011, 27, 6720-6730.	3.5	32
135	Hydrogen titanate nanosheets with both adsorptive and photocatalytic properties used for organic dyes removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 211-218.	4.7	32
136	Tuning band structure of graphitic carbon nitride for efficient degradation of sulfamethazine: Atmospheric condition and theoretical calculation. Chinese Chemical Letters, 2022, 33, 1385-1389.	9.0	32
137	Insight into metal-free carbon catalysis in enhanced permanganate oxidation: Changeover from electron donor to electron mediator. Water Research, 2022, 219, 118626.	11.3	32
138	Application of magnetic OMS-2 in sequencing batch reactor for treating dye wastewater as a modulator of microbial community. Journal of Hazardous Materials, 2017, 340, 36-46.	12.4	30
139	Dominant role of ammonia-oxidizing bacteria in nitrification due to ammonia accumulation in sediments of Danjiangkou reservoir, China. Applied Microbiology and Biotechnology, 2018, 102, 3399-3410.	3.6	30
140	Efficient removal of dyes from dyeing wastewater by powder activated charcoal/titanate nanotube nanocomposites: adsorption and photoregeneration. Environmental Science and Pollution Research, 2019, 26, 10263-10273.	5.3	28
141	Influences of isolated fractions of natural organic matter on adsorption of Cu(II) by titanate nanotubes. Science of the Total Environment, 2019, 650, 1412-1418.	8.0	27
142	Activation of peracetic acid by metal-organic frameworks (ZIF-67) for efficient degradation of sulfachloropyridazine. Chinese Chemical Letters, 2022, 33, 3172-3176.	9.0	27
143	Efficient ofloxacin degradation via photo-Fenton process over eco-friendly MIL-88A(Fe): Performance, degradation pathways, intermediate library establishment and toxicity evaluation. Environmental Research, 2022, 210, 112937.	7.5	25
144	Application of Titanate Nanotubes for Photocatalytic Decontamination in Water: Challenges and Prospects. ACS ES&T Engineering, 2022, 2, 1015-1038.	7.6	24

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145	Transport of multi-walled carbon nanotubes stabilized by carboxymethyl cellulose and starch in saturated porous media: Influences of electrolyte, clay and humic acid. Science of the Total Environment, 2017, 599-600, 188-197.	8.0	23
146	Co-adsorption of ciprofloxacin and Cu(II) onto titanate nanotubes: Speciation variation and metal-organic complexation. Journal of Molecular Liquids, 2019, 292, 111375.	4.9	23
147	Sorption of dispersed petroleum hydrocarbons by activated charcoals: Effects of oil dispersants. Environmental Pollution, 2020, 256, 113416.	7.5	23
148	A study on the ageing treatment of 2091 Al-Li alloy with an electric field. Journal of Materials Science Letters, 1997, 16, 1410-1411.	0.5	22
149	Effects of oil dispersants on photodegradation of parent and alkylated anthracene in seawater. Environmental Pollution, 2017, 229, 272-280.	7.5	22
150	Role of sludge retention time in mitigation of nitrous oxide emission from a pilot-scale oxidation ditch. Bioresource Technology, 2019, 292, 121961.	9.6	22
151	Sequestration of pertechnetate using carboxymethyl cellulose stabilized FeS nanoparticles: Effectiveness and mechanisms. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 561, 373-380.	4.7	22
152	Radical attack and mineralization mechanisms on electrochemical oxidation of p-substituted phenols at boron-doped diamond anodes. Chemosphere, 2020, 248, 126033.	8.2	22
153	Aggregation and stabilization of multiwalled carbon nanotubes in aqueous suspensions: influences of carboxymethyl cellulose, starch and humic acid. RSC Advances, 2016, 6, 67260-67270.	3.6	21
154	Electrochemical oxidation of thallium (I) in groundwater by employing single-chamber microbial fuel cells as renewable power sources. International Journal of Hydrogen Energy, 2017, 42, 29454-29462.	7.1	21
155	Insight into the synergetic effect of photocatalysis and transition metal on sulfite activation: Different mechanisms for carbamazepine and diclofenac degradation. Science of the Total Environment, 2021, 787, 147626.	8.0	21
156	In situ produced hydrogen peroxide by biosynthesized Palladium nanoparticles and natural clay mineral for Highly-efficient Carbamazepine degradation. Chemical Engineering Journal, 2021, 426, 131567.	12.7	21
157	Effect of an electric field during solution treatment of 2091 Al-Li alloy. Journal of Materials Science Letters, 1996, 15, 1327.	0.5	20
158	Reductive immobilization of uranium by stabilized zero-valent iron nanoparticles: Effects of stabilizers, water chemistry and long-term stability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 604, 125315.	4.7	20
159	Efficient adsorption of europium (III) and uranium (VI) by titanate nanorings: Insights into radioactive metal species. Environmental Science and Ecotechnology, 2020, 2, 100031.	13.5	20
160	Control of filament branching in air by astigmatically focused femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2011, 103, 435-439.	2.2	19
161	Study of the diffusion of Alâ€“Li alloys subjected to an electric field. Journal of Materials Science, 1998, 33, 1043-1047.	3.7	18
162	Spectroscopic signatures of many-body interactions and delocalized states in self-assembled lateral quantum dot molecules. Physical Review B, 2011, 84, .	3.2	18

#	Article	IF	Citations
163	Dissolution of TiAl alloy during high temperature brazing. Journal of Materials Science, 2013, 48, 5247-5252.	3.7	18
164	High photocatalytic and adsorptive performance of anatase-covered titanate nanotubes prepared by wet chemical reaction. Microporous and Mesoporous Materials, 2014, 186, 168-175.	4.4	18
165	A surface tension based method for measuring oil dispersant concentration in seawater. Marine Pollution Bulletin, 2016, 109, 49-54.	5.0	18
166	Nanoscale zero-valent iron/persulfate enhanced upflow anaerobic sludge blanket reactor for dye removal: Insight into microbial metabolism and microbial community. Scientific Reports, 2017, 7, 44626.	3.3	18
167	The effects of graphene oxide on nitrification and N2O emission: Dose and exposure time dependent. Environmental Pollution, 2019, 252, 960-966.	7.5	18
168	Construction of Z-scheme Ag/AgVO3/carbon-rich g-C3N4 heterojunction for enhanced photocatalytic degradation of sulfamethiadiazole: DFT calculation and mechanism study. Chemical Engineering Journal, 2022, 433, 133604.	12.7	17
169	Fabrication of BaZr_{0.1}Ce_{0.7}Y_{0.2}O_{3â€‰â€“â€‰Î´}â€Based Protonâ€Conducting Solid Oxide Fuel Cells Coâ€Fired at 1,150â€‰Â°C. Fuel Cells, 2010, 10, 1108-1113.	2.4	16
170	Facile synthesis of ZrO2 coated BiOCl0.5I0.5 for photocatalytic oxidation-adsorption of As(III) under visible light irradiation. Chemosphere, 2018, 211, 934-942.	8.2	16
171	A Novel Intermediate-Temperature Oxygen-Permeable Membrane Based on the HighTc Superconductor Bi2Sr2CaCu2O8. Advanced Materials, 2000, 12, 1132-1134.	21.0	15
172	Femtosecond laser filamentation with a 4 J/60 fs Ti:Sapphire laser beam: Multiple filaments and intensity clamping. Laser Physics, 2010, 20, 886-890.	1.2	15
173	Properties of electrospun PVA/nanoclay composites. Journal of the Textile Institute, 2014, 105, 423-429.	1.9	15
174	In situtunable<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>g</mml:mi></mml:mrow></mml:math>factor for a single electron confined inside an InAs quantum dot molecule. Physical Review B, 2011, 84, .	3.2	14
175	Recent Progress of the Design and Engineering of Bismuth Oxyhalides for Photocatalytic Nitrogen Fixation. Advanced Energy and Sustainability Research, 2021, 2, 2000097.	5.8	14
176	Atmospheric Humicâ€Like Substances (HULIS) Act as Ice Active Entities. Geophysical Research Letters, 2021, 48, e2021GL092443.	4.0	14
177	Insights into interactions of Cr(III) and organic matters during adsorption onto titanate nanotubes: Differential absorbance and DFT study. Journal of Molecular Liquids, 2020, 312, 113432.	4.9	13
178	Synchronous degradation of aqueous benzotriazole and bromate reduction in catalytic ozonation: Effect of matrix factor, degradation mechanism and application strategy in water treatment. Science of the Total Environment, 2020, 727, 138696.	8.0	13
179	Concentrate and degrade PFOA with a photo-regenerable composite of In-doped TNTs@AC. Chemosphere, 2022, 300, 134495.	8.2	13
180	Intensity clamping during dual-beam interference. Laser Physics, 2010, 20, 1968-1972.	1.2	12

#	Article	IF	Citations
181	Co-self-assembly of cationic microparticles to deliver pEGFP-ZNF580 for promoting the transfection and migration of endothelial cells. International Journal of Nanomedicine, 2017, Volume 12, 137-149.	6.7	12
182	The effects of manganese oxide octahedral molecular sieve chitosan microspheres on sludge bacterial community structures during sewage biological treatment. Scientific Reports, 2016, 6, 37518.	3.3	12
183	Influence of homogenization treatment in an electric field on the workability of 1420 Al-Li alloy during hot rolling. Journal of Materials Science Letters, 1996, 15, 1918.	0.5	10
184	The effect of electric field on the recrystallization of 2091 Al-Li alloy. Journal of Materials Science Letters, 1997, 16, 1400-1401.	0.5	10
185	Accelerated Oxidation of Organic Micropollutants during Peracetic Acid Treatment in the Presence of Bromide Ions. ACS ES&T Water, 2022, 2, 320-328.	4.6	10
186	Phase separation of CaOÂ·Al2O3 Â·SiO2 glasses induced by electric field. Journal of Materials Science, 1999, 34, 3455-3459.	3.7	9
187	Effect of a magnetic field on phase transformation of steel. Journal of Materials Research, 2001, 16, 2280-2282.	2.6	9
188	Local strain, defects, and crystallographic tilt in GaN(0001) layers grown by maskless pendeo-epitaxy from x-ray microdiffraction. Journal of Applied Physics, 2005, 97, 013504.	2.5	9
189	Transmission electron microscopy observation of a deformation twin in TWIP steel by anex situtensile test. Philosophical Magazine, 2011, 91, 4033-4044.	1.6	9
190	Return Value Estimation of Significant Wave Heights With Maximum Entropy Distribution. Journal of Offshore Mechanics and Arctic Engineering, 2013, 135, .	1.2	9
191	Removal of 17Î²-Estradiol by Activated Charcoal Supported Titanate Nanotubes (TNTs@AC) through Initial Adsorption and Subsequent Photo-Degradation: Intermediates, DFT calculation, and Mechanisms. Water (Switzerland), 2020, 12, 2121.	2.7	9
192	MorphÃ'logy and Properties of Vanadium Oxide Xerogels and Aerogels. Materials Research Society Symposia Proceedings, 1994, 369, 211.	0.1	8
193	Anomalous capacitance response induced by the superconducting gap in an Au/BiFeO3/La1.84Sr0.16CuO4/LaSrAlO4 heterostructure. Applied Physics Letters, 2013, 103, .	3.3	8
194	Unraveling the Unique Role of Methyl Position on the Ring-Opening Barrier in Photocatalytic Decomposition of Xylene Isomers. ACS Catalysis, 2022, 12, 8363-8371.	11.2	8
195	Vanadium trioxide mediated peroxymonosulfate for fast metronidazole oxidation: Stepwise oxidation of vanadium for donating electrons. Separation and Purification Technology, 2022, 298, 121595.	7.9	8
196	The Kirkendall effect of the Al-Cu couple with an electric field. Journal of Materials Science Letters, 1997, 16, 930-932.	0.5	7
197	Third-harmonic generation in relative-phase-controlled two-color laser field. Applied Physics B: Lasers and Optics, 2011, 104, 909-912.	2.2	7
198	Uptake, excretion and toxicity of titanate nanotubes in three stains of free-living ciliates of the genus Tetrahymena. Aquatic Toxicology, 2021, 233, 105790.	4.0	7

#	Article	IF	Citations
199	New insight into environmental photochemistry of PAHs induced by dissolved organic matters: A model of naphthalene in seawater. Chemical Engineering Research and Design, 2022, 161, 325-333.	5.6	7
200	Coalesced oriented diamond films on nickel. Journal of Materials Research, 1998, 13, 1120-1123.	2.6	6
201	Influence of polymer chain connectivity on local composition distribution in miscible polymer blends. Philosophical Magazine, 2008, 88, 3979-3989.	1.6	6
202	Empirical study of nonlinearity tensor dominating THz generation in barium borate crystal through optical rectification. Applied Physics B: Lasers and Optics, 2011, 103, 831-835.	2.2	6
203	Pulse characterization during femtosecond laser filamentation in air by two-photon fluorescence measurement. Applied Physics B: Lasers and Optics, 2011, 105, 825-831.	2.2	5
204	Hydrogen bonding rather than cation bridging promotes graphene oxide attachment to lipid membranes in the presence of heavy metals. Environmental Science: Nano, 2020, 7, 2240-2251.	4.3	5
205	Transmission electron microscopy analysis of the oriented diamond growth on nickel substrates. Journal of Applied Physics, 1998, 83, 7658-7663.	2.5	4
206	Phase separation of CaOÂ·B2O3Â·P2O5 glasses induced by polarization in an electric field. Journal of Materials Science, 2000, 35, 1507-1510.	3.7	4
207	Wetting kinetics of the AgCuTi filler metal on pure molybdenum substrate. Surface and Interface Analysis, 2015, 47, 838-843.	1.8	4
208	Properties of Al doped CdZnTe film by aluminium induced crystallisation. Surface Engineering, 2016, 32, 190-193.	2.2	4
209	Mechanical response of reaction phases of the TiAl/steel brazed joint under a tensile load. Journal of Materials Science, 2014, 49, 1114-1120.	3.7	3
210	Carbon nanotubes affect the formation of trihalomethanes during chlorination of bisphenol A. Chemical Engineering Journal, 2019, 370, 337-345.	12.7	3
211	Degradation of diclofenac in a photosensitization-like photocatalysis process using palladium quantum dots deposited graphite carbon nitride under solar light. Journal of Environmental Chemical Engineering, 2022, 10, 107545.	6.7	3
212	Constructing heterojunction interface of Co3O4/TiO2 for efficiently accelerating acetaminophen degradation via photocatalytic activation of sulfite. Chinese Chemical Letters, 2023, 34, 107530.	9.0	3
213	Tem Analysis of the Observed Phases During the Growth of Oriented Diamond on Nickel Substrates. Materials Research Society Symposia Proceedings, 1996, 423, 457.	0.1	2
214	Structural evolution and phase separation of CaO Â· Al2O3 Â· SiO2 glasses in an electric field. Journal of Materials Research, 1999, 14, 4421-4425.	2.6	2
215	An experimental and theoretical investigation on the nucleation mechanism of copper-containing glass in an electric field. Applied Physics A: Materials Science and Processing, 2005, 81, 413-417.	2.3	2
216	Global Existence and Uniform Decay of Solutions for a Coupled System of Nonlinear Viscoelastic Wave Equations with Not Necessarily Differentiable Relaxation Functions. Studies in Applied Mathematics, 2011, 127, 315-344.	2.4	2

#	Article	IF	Citations
217	Coâ€€Generation of Electric Power and Carbon Nanotubes from Dimethyl Ether (DME). Fuel Cells, 2014, 14, 561-565.	2.4	2
218	Anisotropic spreading of liquid metal on a rough intermetallic surface. Theoretical and Applied Mechanics, 2011, 38, 365-377.	0.3	2
219	Effect and Mechanism of Titanium Nanomaterials on Microbial Community Structure and Function in Sequencing Batch Reactor. ACS ES&T Water, 2022, 2, 395-404.	4.6	2
220	Nucleation and Growth of Oriented Diamond Films on Nickel Substrates. Materials Research Society Symposia Proceedings, 1996, 423, 281.	0.1	1
221	EFFECT OF INTERMEDIATE DEFORMATION ON THE TEXTURING OF Bi-2223/Ag TAPES. International Journal of Modern Physics B, 2005, 19, 295-297.	2.0	1
222	Long-Term Aging Effect on the Crack Growth in the Main Circulating Pump Casing Material. Strength of Materials, 2015, 47, 100-107.	0.5	1
223	Network-enabled MIMO systems with distributed data processing. Journal of Supercomputing, 2020, 76, 3402-3415.	3.6	1
224	The Different Toxicity and Mechanism of Titanium Dioxide (TiO2) and Titanate Nanotubes (TNTs) on Escherichia coli. Chemistry in the Environment, 2021, , 507-522.	0.4	1
225	Multifunctional sites on reduced graphene oxide synergistically improving the degradation of diclofenac in peroxydisulfate systems. Journal of Environmental Chemical Engineering, 2022, 10, 108251.	6.7	1
226	Achievement Of Coalesced Oriented Diamond Films On Nickel By Optical Process Control And Methane Enrichment. Materials Research Society Symposia Proceedings, 1997, 483, 213.	0.1	0
227	The phase separation mechanism of CaOâ€“B₂O₃â€“P₂O₅ in an electric field. Journal of Materials Research, 1999, 14, 2096-2099.	2.6	0
228	A PROSPECTIVE PHASE II STUDY OF PEGASPARGASE-COEP PLUS RADIOTHERAPY IN PATIENTS WITH NEWLY DIAGNOSED EXTRA-NODAL NK/T-CELL LYMPHOMA. Hematological Oncology, 2019, 37, 273-273.	1.7	0
229	Hepatitis B virus infection status is not associated with poor prognosis in classical Hodgkin lymphoma patients. Neoplasma, 2020, 67, 203-208.	1.6	0