

Dionysios D Dionysiou

List of Publications by Year in descending order

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599
papers

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617
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617
docs citations

617
times ranked

36748
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the visible light active titanium dioxide photocatalysts for environmental applications. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 331-349.	20.2	3,320
2	Radical Generation by the Interaction of Transition Metals with Common Oxidants. <i>Environmental Science & Technology</i> , 2004, 38, 3705-3712.	10.0	2,522
3	Degradation of Organic Contaminants in Water with Sulfate Radicals Generated by the Conjunction of Peroxymonosulfate with Cobalt. <i>Environmental Science & Technology</i> , 2003, 37, 4790-4797.	10.0	1,415
4	The use of zero-valent iron for groundwater remediation and wastewater treatment: A review. <i>Journal of Hazardous Materials</i> , 2014, 267, 194-205.	12.4	1,301
5	Sulfate radical-based ferrous- peroxymonosulfate oxidative system for PCBs degradation in aqueous and sediment systems. <i>Applied Catalysis B: Environmental</i> , 2009, 85, 171-179.	20.2	953
6	Cobalt-Mediated Activation of Peroxymonosulfate and Sulfate Radical Attack on Phenolic Compounds. Implications of Chloride Ions. <i>Environmental Science & Technology</i> , 2006, 40, 1000-1007.	10.0	802
7	Self-cleaning applications of TiO_2 by photo-induced hydrophilicity and photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 396-428.	20.2	739
8	Manipulation of Persistent Free Radicals in Biochar To Activate Persulfate for Contaminant Degradation. <i>Environmental Science & Technology</i> , 2015, 49, 5645-5653.	10.0	684
9	Activation of Persulfate by Quinones: Free Radical Reactions and Implication for the Degradation of PCBs. <i>Environmental Science & Technology</i> , 2013, 47, 4605-4611.	10.0	673
10	Key Role of Persistent Free Radicals in Hydrogen Peroxide Activation by Biochar: Implications to Organic Contaminant Degradation. <i>Environmental Science & Technology</i> , 2014, 48, 1902-1910.	10.0	589
11	New Insights into the Mechanism of Visible Light Photocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2543-2554.	4.6	569
12	Degradation of microcystin-LR using sulfate radicals generated through photolysis, thermolysis and e^- transfer mechanisms. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 290-298.	20.2	532
13	Transition metal/UV-based advanced oxidation technologies for water decontamination. <i>Applied Catalysis B: Environmental</i> , 2004, 54, 155-163.	20.2	528
14	Iron- cobalt mixed oxide nanocatalysts: Heterogeneous peroxymonosulfate activation, cobalt leaching, and ferromagnetic properties for environmental applications. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 462-469.	20.2	526
15	Oxidative removal of Bisphenol A by UV-C/ peroxymonosulfate (PMS): Kinetics, influence of co-existing chemicals and degradation pathway. <i>Chemical Engineering Journal</i> , 2015, 276, 193-204.	12.7	512
16	Opportunities and challenges in sustainable treatment and resource reuse of sewage sludge: A review. <i>Chemical Engineering Journal</i> , 2018, 337, 616-641.	12.7	510
17	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. <i>Environmental Science & Technology</i> , 2019, 53, 2937-2947.	10.0	493
18	A review of solar and visible light active TiO_2 photocatalysis for treating bacteria, cyanotoxins and contaminants of emerging concern. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 2-14.	4.0	484

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19	Heterogeneous Activation of Oxone Using Co ₃ O ₄ . Journal of Physical Chemistry B, 2005, 109, 13052-13055.	2.6	450
20	Sol-gel preparation of mesoporous photocatalytic TiO ₂ films and TiO ₂ /Al ₂ O ₃ composite membranes for environmental applications. Applied Catalysis B: Environmental, 2006, 63, 60-67.	20.2	449
21	Kinetic and mechanism investigation on the photochemical degradation of atrazine with activated H ₂ O ₂ , S ₂ O ₈ ²⁻ and HSO ₅ ⁻ . Chemical Engineering Journal, 2014, 252, 393-403.	12.7	432
22	Superoxide radical driving the activation of persulfate by magnetite nanoparticles: Implications for the degradation of PCBs. Applied Catalysis B: Environmental, 2013, 129, 325-332.	20.2	420
23	Contamination Profiles of Perfluoroalkyl Substances (PFAS) in Groundwater in the Alluvial-Pluvial Plain of Hutuo River, China. Water (Switzerland), 2019, 11, 2316.	2.7	420
24	Heterogeneous Fenton catalysts: A review of recent advances. Journal of Hazardous Materials, 2021, 404, 124082.	12.4	412
25	Monodispersed CuFe ₂ O ₄ nanoparticles anchored on natural kaolinite as highly efficient peroxymonosulfate catalyst for bisphenol A degradation. Applied Catalysis B: Environmental, 2019, 253, 206-217.	20.2	405
26	Size-Tunable Hydrothermal Synthesis of SnS ₂ Nanocrystals with High Performance in Visible Light-Driven Photocatalytic Reduction of Aqueous Cr(VI). Environmental Science & Technology, 2011, 45, 9324-9331.	10.0	389
27	Cr(VI) Adsorption and Reduction by Humic Acid Coated on Magnetite. Environmental Science & Technology, 2014, 48, 8078-8085.	10.0	378
28	2D Nanomaterials for Photocatalytic Hydrogen Production. ACS Energy Letters, 2019, 4, 1687-1709.	17.4	375
29	Phosphate adsorption using modified iron oxide-based sorbents in lake water: Kinetics, equilibrium, and column tests. Chemical Engineering Journal, 2016, 284, 1386-1396.	12.7	369
30	Visible light-assisted heterogeneous Fenton with ZnFe ₂ O ₄ for the degradation of Orange II in water. Applied Catalysis B: Environmental, 2016, 182, 456-468.	20.2	369
31	Effect of inorganic, synthetic and naturally occurring chelating agents on Fe(II) mediated advanced oxidation of chlorophenols. Water Research, 2009, 43, 684-694.	11.3	356
32	Sulfate radical-based degradation of polychlorinated biphenyls: Effects of chloride ion and reaction kinetics. Journal of Hazardous Materials, 2012, 227-228, 394-401.	12.4	356
33	Activation of peroxymonosulfate/persulfate by nanomaterials for sulfate radical-based advanced oxidation technologies. Current Opinion in Chemical Engineering, 2018, 19, 51-58.	7.8	352
34	Highly efficient activation of peroxymonosulfate by natural negatively-charged kaolinite with abundant hydroxyl groups for the degradation of atrazine. Applied Catalysis B: Environmental, 2019, 247, 10-23.	20.2	348
35	Innovative visible light-activated sulfur doped TiO ₂ films for water treatment. Applied Catalysis B: Environmental, 2011, 107, 77-87.	20.2	338
36	High-Performance Visible-Light-Driven SnS ₂ /SnO ₂ Nanocomposite Photocatalyst Prepared via In situ Hydrothermal Oxidation of SnS ₂ Nanoparticles. ACS Applied Materials & Interfaces, 2011, 3, 1528-1537.	8.0	321

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37	2D nanostructures for water purification: graphene and beyond. <i>Nanoscale</i> , 2016, 8, 15115-15131.	5.6	318
38	One-step hydrothermal synthesis of high-performance visible-light-driven SnS ₂ /SnO ₂ nanoheterojunction photocatalyst for the reduction of aqueous Cr(VI). <i>Applied Catalysis B: Environmental</i> , 2014, 144, 730-738.	20.2	309
39	Mechanistic insight into reactivity of sulfate radical with aromatic contaminants through single-electron transfer pathway. <i>Chemical Engineering Journal</i> , 2017, 327, 1056-1065.	12.7	296
40	Mechanism of hydroxyl radical generation from biochar suspensions: Implications to diethyl phthalate degradation. <i>Bioresource Technology</i> , 2015, 176, 210-217.	9.6	284
41	Kinetics and mechanism investigation on the destruction of oxytetracycline by UV-254 nm activation of persulfate. <i>Journal of Hazardous Materials</i> , 2016, 305, 229-239.	12.4	284
42	Oxidative degradation of atrazine in aqueous solution by UV/H ₂ O ₂ /Fe ²⁺ , UV//Fe ²⁺ and UV//Fe ²⁺ processes: A comparative study. <i>Chemical Engineering Journal</i> , 2013, 218, 376-383.	12.7	282
43	Heterogeneous activation of peroxymonosulfate by supported cobalt catalysts for the degradation of 2,4-dichlorophenol in water: The effect of support, cobalt precursor, and UV radiation. <i>Applied Catalysis B: Environmental</i> , 2008, 77, 300-307.	20.2	281
44	Photocatalytic TiO ₂ films and membranes for the development of efficient wastewater treatment and reuse systems. <i>Desalination</i> , 2007, 202, 199-206.	8.2	276
45	Exceptional synergistic enhancement of the photocatalytic activity of SnS ₂ by coupling with polyaniline and N-doped reduced graphene oxide. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 53-63.	20.2	274
46	Degradation kinetics and mechanism of oxytetracycline by hydroxyl radical-based advanced oxidation processes. <i>Chemical Engineering Journal</i> , 2016, 284, 1317-1327.	12.7	271
47	Novel fluorinated Bi ₂ MoO ₆ nanocrystals for efficient photocatalytic removal of water organic pollutants under different light source illumination. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 1-11.	20.2	260
48	Highly efficient visible-light photocatalytic performance of Ag/AgIn ₅ S ₈ for degradation of tetracycline hydrochloride and treatment of real pharmaceutical industry wastewater. <i>Chemical Engineering Journal</i> , 2018, 333, 423-433.	12.7	260
49	New insight into the mechanism of peroxymonosulfate activation by sulfur-containing minerals: Role of sulfur conversion in sulfate radical generation. <i>Water Research</i> , 2018, 142, 208-216.	11.3	254
50	Visible light-activated N-F-codoped TiO ₂ nanoparticles for the photocatalytic degradation of microcystin-LR in water. <i>Catalysis Today</i> , 2009, 144, 19-25.	4.4	253
51	Review and perspectives on the use of magnetic nanophotocatalysts (MNPCs) in water treatment. <i>Chemical Engineering Journal</i> , 2017, 310, 407-427.	12.7	247
52	Photogeneration of reactive oxygen species from biochar suspension for diethyl phthalate degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 34-45.	20.2	247
53	Efficient degradation of atrazine with porous sulfurized Fe ₂ O ₃ as catalyst for peroxymonosulfate activation. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118056.	20.2	243
54	Efficient activation of peroxymonosulfate by magnetic Mn-MGO for degradation of bisphenol A. <i>Journal of Hazardous Materials</i> , 2016, 320, 150-159.	12.4	239

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55	Rapid toxicity elimination of organic pollutants by the photocatalysis of environment-friendly and magnetically recoverable step-scheme SnFe ₂ O ₄ /ZnFe ₂ O ₄ nano-heterojunctions. <i>Chemical Engineering Journal</i> , 2020, 379, 122264.	12.7	238
56	Degradation kinetics and mechanism of β -lactam antibiotics by the activation of H ₂ O ₂ and Na ₂ S ₂ O ₈ under UV-254nm irradiation. <i>Journal of Hazardous Materials</i> , 2014, 279, 375-383.	12.4	236
57	Significant role of UV and carbonate radical on the degradation of oxytetracycline in UV-AOPs: Kinetics and mechanism. <i>Water Research</i> , 2016, 95, 195-204.	11.3	234
58	Nanocrystalline cobalt oxide immobilized on titanium dioxide nanoparticles for the heterogeneous activation of peroxymonosulfate. <i>Applied Catalysis B: Environmental</i> , 2007, 74, 170-178.	20.2	233
59	Mesoporous Nitrogen-Doped TiO ₂ for the Photocatalytic Destruction of the Cyanobacterial Toxin Microcystin-LR under Visible Light Irradiation. <i>Environmental Science & Technology</i> , 2007, 41, 7530-7535.	10.0	232
60	Synthesis of Reactive Nano-Fe/Pd Bimetallic System-Impregnated Activated Carbon for the Simultaneous Adsorption and Dechlorination of PCBs. <i>Chemistry of Materials</i> , 2008, 20, 3649-3655.	6.7	232
61	Facile preparation of porous Mn/Fe ₃ O ₄ cubes as peroxymonosulfate activating catalyst for effective bisphenol A degradation. <i>Chemical Engineering Journal</i> , 2019, 376, 119193.	12.7	231
62	Toxic cyanobacteria and drinking water: Impacts, detection, and treatment. <i>Harmful Algae</i> , 2016, 54, 174-193.	4.8	229
63	Destruction of cyanobacterial toxin cylindrospermopsin by hydroxyl radicals and sulfate radicals using UV-254nm activation of hydrogen peroxide, persulfate and peroxymonosulfate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 251, 160-166.	3.9	224
64	Role of pH on photolytic and photocatalytic degradation of antibiotic oxytetracycline in aqueous solution under visible/solar light: Kinetics and mechanism studies. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 83-92.	20.2	214
65	What is the role of light in persulfate-based advanced oxidation for water treatment?. <i>Water Research</i> , 2021, 189, 116627.	11.3	214
66	Degradation of atrazine by ZnxCu _{1-x} Fe ₂ O ₄ nanomaterial-catalyzed sulfite under UV-vis light irradiation: Green strategy to generate SO ₄ ^{•-} . <i>Applied Catalysis B: Environmental</i> , 2018, 221, 380-392.	20.2	212
67	Electrochemical activation of peroxymonosulfate with ACF cathode: Kinetics, influencing factors, mechanism, and application potential. <i>Water Research</i> , 2019, 159, 111-121.	11.3	212
68	Microplastics as Both a Sink and a Source of Bisphenol A in the Marine Environment. <i>Environmental Science & Technology</i> , 2019, 53, 10188-10196.	10.0	211
69	Efficient removal of microcystin-LR by UV-C/H ₂ O ₂ in synthetic and natural water samples. <i>Water Research</i> , 2012, 46, 1501-1510.	11.3	206
70	Efficient removal of endosulfan from aqueous solution by UV-C/peroxides: A comparative study. <i>Journal of Hazardous Materials</i> , 2013, 263, 584-592.	12.4	206
71	Intermediates and Reaction Pathways from the Degradation of Microcystin-LR with Sulfate Radicals. <i>Environmental Science & Technology</i> , 2010, 44, 7238-7244.	10.0	205
72	Trichloroethene Hydrodechlorination in Water by Highly Disordered Monometallic Nanoiron. <i>Chemistry of Materials</i> , 2005, 17, 5315-5322.	6.7	204

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73	Visible-light-responsive graphene-functionalized Bi-bridge Z-scheme black BiOCl/Bi ₂ O ₃ heterojunction with oxygen vacancy and multiple charge transfer channels for efficient photocatalytic degradation of 2-nitrophenol and industrial wastewater treatment. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 61-69.	20.2	203
74	Aligned γ -FeOOH nanorods anchored on a graphene oxide-carbon nanotubes aerogel can serve as an effective Fenton-like oxidation catalyst. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 74-86.	20.2	202
75	Visible light-sensitized S, N and C co-doped polymorphic TiO ₂ for photocatalytic destruction of microcystin-LR. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 614-621.	20.2	197
76	Kinetics and mechanism of sulfate radical- and hydroxyl radical-induced degradation of highly chlorinated pesticide lindane in UV/peroxymonosulfate system. <i>Chemical Engineering Journal</i> , 2017, 318, 135-142.	12.7	196
77	Photochemical degradation of oxytetracycline: Influence of pH and role of carbonate radical. <i>Chemical Engineering Journal</i> , 2015, 276, 113-121.	12.7	194
78	Natural illite-based ultrafine cobalt oxide with abundant oxygen-vacancies for highly efficient Fenton-like catalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118214.	20.2	194
79	HNO ₃ -involved one-step low temperature solvothermal synthesis of N-doped TiO ₂ nanocrystals for efficient photocatalytic reduction of Cr(VI) in water. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 249-258.	20.2	190
80	Chemical and microbial decontamination of pool water using activated potassium peroxydisulfate. <i>Water Research</i> , 2008, 42, 2899-2910.	11.3	189
81	Antibacterial properties of F-doped ZnO visible light photocatalyst. <i>Journal of Hazardous Materials</i> , 2017, 324, 39-47.	12.4	187
82	Hetero-nanostructured metal oxide-based hybrid photocatalysts for enhanced photoelectrochemical water splitting – A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18331-18347.	7.1	185
83	Efficient transformation of DDTs with Persulfate Activation by Zero-valent Iron Nanoparticles: A Mechanistic Study. <i>Journal of Hazardous Materials</i> , 2016, 316, 232-241.	12.4	181
84	Destruction of microcystins by conventional and advanced oxidation processes: A review. <i>Separation and Purification Technology</i> , 2012, 91, 3-17.	7.9	180
85	Design and fabrication of microsphere photocatalysts for environmental purification and energy conversion. <i>Chemical Engineering Journal</i> , 2016, 287, 117-129.	12.7	180
86	The facile fabrication of novel visible-light-driven Z-scheme CuInS ₂ /Bi ₂ WO ₆ heterojunction with intimate interface contact by in situ hydrothermal growth strategy for extraordinary photocatalytic performance. <i>Chemical Engineering Journal</i> , 2019, 356, 819-829.	12.7	177
87	Activation of persulfate with vanadium species for PCBs degradation: A mechanistic study. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 1-11.	20.2	175
88	Novel visible-light-driven direct Z-scheme CdS/CuInS ₂ nanoplates for excellent photocatalytic degradation performance and highly-efficient Cr(VI) reduction. <i>Chemical Engineering Journal</i> , 2019, 361, 1451-1461.	12.7	171
89	Oxidative removal of brilliant green by UV/S ₂ O ₈ ²⁻ , UV/HSO ₅ ⁻ and UV/H ₂ O ₂ processes in aqueous media: A comparative study. <i>Journal of Hazardous Materials</i> , 2018, 357, 506-514.	12.4	170
90	Nanomedicine: An effective tool in cancer therapy. <i>International Journal of Pharmaceutics</i> , 2018, 540, 132-149.	5.2	169

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91	Synthesis, structural characterization and evaluation of sol-gel-based NF-TiO ₂ films with visible light-photoactivation for the removal of microcystin-LR†. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 378-387.	20.2	168
92	Thermally Stable Nanocrystalline TiO ₂ Photocatalysts Synthesized via Sol-Gel Methods Modified with Ionic Liquid and Surfactant Molecules. <i>Chemistry of Materials</i> , 2006, 18, 5377-5384.	6.7	166
93	Solar photocatalysis for water disinfection: materials and reactor design. <i>Catalysis Science and Technology</i> , 2014, 4, 1211-1226.	4.1	165
94	Assessment of the roles of reactive oxygen species in the UV and visible light photocatalytic degradation of cyanotoxins and water taste and odor compounds using Ca-TiO ₂ . <i>Water Research</i> , 2016, 90, 52-61.	11.3	165
95	Synthesis of GO/TiO ₂ /Bi ₂ WO ₆ nanocomposites with enhanced visible light photocatalytic degradation of ethylene. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 303-311.	20.2	165
96	Unveiling New Degradation Intermediates/Pathways from the Photocatalytic Degradation of Microcystin-LR. <i>Environmental Science & Technology</i> , 2008, 42, 8877-8883.	10.0	163
97	Continuous-mode photocatalytic degradation of chlorinated phenols and pesticides in water using a bench-scale TiO ₂ rotating disk reactor. <i>Applied Catalysis B: Environmental</i> , 2000, 24, 139-155.	20.2	160
98	Kinetic and mechanistic aspects of hydroxyl radical-mediated degradation of naproxen and reaction intermediates. <i>Water Research</i> , 2018, 137, 233-241.	11.3	160
99	Use of selected scavengers for the determination of NF-TiO ₂ reactive oxygen species during the degradation of microcystin-LR under visible light irradiation. <i>Journal of Molecular Catalysis A</i> , 2016, 425, 183-189.	4.8	157
100	Development of a new efficient visible-light-driven photocatalyst from SnS ₂ and polyvinyl chloride. <i>Journal of Catalysis</i> , 2016, 344, 692-700.	6.2	157
101	Recent advances in flue gas desulfurization gypsum processes and applications – A review. <i>Journal of Environmental Management</i> , 2019, 251, 109572.	7.8	157
102	Cobalt ferrite nanoparticles with controlled composition-peroxymonosulfate mediated degradation of 2-phenylbenzimidazole-5-sulfonic acid. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 266-279.	20.2	155
103	Highly efficient Sr/Ce/activated carbon bimetallic nanocomposite for photoinduced degradation of rhodamine B. <i>Catalysis Today</i> , 2019, 335, 437-451.	4.4	155
104	TiO ₂ photocatalytic films on stainless steel: The role of Degussa P-25 in modified sol-gel methods. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 255-264.	20.2	152
105	A path to clean water. <i>Science</i> , 2018, 361, 222-224.	12.6	151
106	Degradation and transformation of bisphenol A in UV/Sodium percarbonate: Dual role of carbonate radical anion. <i>Water Research</i> , 2020, 171, 115394.	11.3	151
107	Construction of novel symmetric double Z-scheme BiFeO ₃ /CuBi ₂ O ₄ /BaTiO ₃ photocatalyst with enhanced solar-light-driven photocatalytic performance for degradation of norfloxacin. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119017.	20.2	150
108	Advanced Oxidation Processes for Water Treatment. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2112-2113.	4.6	148

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109	Contribution of alcohol radicals to contaminant degradation in quenching studies of persulfate activation process. <i>Water Research</i> , 2018, 139, 66-73.	11.3	148
110	A review on cylindrospermopsin: the global occurrence, detection, toxicity and degradation of a potent cyanotoxin. <i>Environmental Sciences: Processes and Impacts</i> , 2013, 15, 1979.	3.5	147
111	Plasmonic-based nanomaterials for environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 721-741.	20.2	146
112	TiO ₂ photocatalyst for indoor air remediation: Influence of crystallinity, crystal phase, and UV radiation intensity on trichloroethylene degradation. <i>Applied Catalysis B: Environmental</i> , 2010, 94, 211-218.	20.2	145
113	Solar photocatalytic disinfection of water using titanium dioxide graphene composites. <i>Chemical Engineering Journal</i> , 2015, 261, 36-44.	12.7	145
114	Micelles as Soil and Water Decontamination Agents. <i>Chemical Reviews</i> , 2016, 116, 6042-6074.	47.7	144
115	Hydrothermal synthesis of photoactive nitrogen- and boron- codoped TiO ₂ nanoparticles for the treatment of bisphenol A in wastewater: Synthesis, photocatalytic activity, degradation byproducts and reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 598-611.	20.2	142
116	Transformation of polychlorinated biphenyls by persulfate at ambient temperature. <i>Chemosphere</i> , 2013, 90, 1573-1580.	8.2	140
117	Photochemical treatment of tyrosol, a model phenolic compound present in olive mill wastewater, by hydroxyl and sulfate radical-based advanced oxidation processes (AOPs). <i>Journal of Hazardous Materials</i> , 2019, 367, 734-742.	12.4	139
118	Kinetics and mechanisms of cylindrospermopsin destruction by sulfate radical-based advanced oxidation processes. <i>Water Research</i> , 2014, 63, 168-178.	11.3	138
119	High performance sulfur, nitrogen and carbon doped mesoporous anatase/brookite TiO ₂ photocatalyst for the removal of microcystin-LR under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2014, 280, 723-733.	12.4	138
120	Metal-mediated oxidation of fluoroquinolone antibiotics in water: A review on kinetics, transformation products, and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2018, 344, 1136-1154.	12.4	138
121	Sulfamethoxazole degradation by visible light assisted peroxymonosulfate process based on nanohybrid manganese dioxide incorporating ferric oxide. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119297.	20.2	138
122	Roles of oxygen-containing functional groups of O-doped g-C ₃ N ₄ in catalytic ozonation: Quantitative relationship and first-principles investigation. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120155.	20.2	137
123	Adsorption, oxidation, and reduction behavior of arsenic in the removal of aqueous As(III) by mesoporous Fe/Al bimetallic particles. <i>Water Research</i> , 2016, 96, 22-31.	11.3	135
124	Rapid removal of tetrabromobisphenol A by $\text{Fe}_2\text{O}_3\text{-x@Graphene@Montmorillonite}$ catalyst with oxygen vacancies through peroxymonosulfate activation: Role of halogen and Fe^{II} -hydroxyalkyl radicals. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118129.	20.2	135
125	Microwave degradation of methyl orange dye in aqueous solution in the presence of nano-TiO ₂ -supported activated carbon (supported-TiO ₂ /AC/MW). <i>Journal of Hazardous Materials</i> , 2012, 209-210, 271-277.	12.4	134
126	Photocatalytic removal of atrazine using N-doped TiO ₂ supported on phosphors. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 462-474.	20.2	134

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127	Effects of water parameters on the degradation of microcystin-LR under visible light-activated TiO ₂ photocatalyst. <i>Water Research</i> , 2011, 45, 3787-3796.	11.3	131
128	Correlation of structural properties and film thickness to photocatalytic activity of thick TiO ₂ films coated on stainless steel. <i>Applied Catalysis B: Environmental</i> , 2006, 69, 24-33.	20.2	130
129	Photoinactivation of <i>Escherichia coli</i> by Sulfur-Doped and Nitrogen-Fluorine-Codoped TiO ₂ Nanoparticles under Solar Simulated Light and Visible Light Irradiation. <i>Environmental Science & Technology</i> , 2013, 47, 9988-9996.	10.0	129
130	Effects of HCO ₃ ⁻ on Degradation of Toxic Contaminants of Emerging Concern by UV/NO ₃ ⁻ . <i>Environmental Science & Technology</i> , 2018, 52, 12697-12707.	10.0	129
131	Diatomite supported hierarchical 2D CoNi ₃ O ₄ nanoribbons as highly efficient peroxymonosulfate catalyst for atrazine degradation. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118971.	20.2	129
132	Synthesis of nanocrystalline photocatalytic TiO ₂ thin films and particles using sol-gel method modified with nonionic surfactants. <i>Thin Solid Films</i> , 2006, 510, 107-114.	1.8	128
133	LC/MS/MS structure elucidation of reaction intermediates formed during the TiO ₂ photocatalysis of microcystin-LR. <i>Toxicon</i> , 2008, 51, 1103-1118.	1.6	128
134	Superoxide mediated production of hydroxyl radicals by magnetite nanoparticles: Demonstration in the degradation of 2-chlorobiphenyl. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 68-75.	12.4	126
135	Understanding Mechanisms of Synergy between Acidification and Ultrasound Treatments for Activated Sludge Dewatering: From Bench to Pilot-Scale Investigation. <i>Environmental Science & Technology</i> , 2018, 52, 4313-4323.	10.0	126
136	Enhancement of the Cr(VI) adsorption and photocatalytic reduction activity of g-C ₃ N ₄ by hydrothermal treatment in HNO ₃ aqueous solution. <i>Applied Catalysis A: General</i> , 2016, 521, 9-18.	4.3	123
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