

Kevin O'Shea

List of Publications by Year in descending order

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68
papers

8,255
citations

126708

33
h-index

98622

67
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70
all docs

70
docs citations

70
times ranked

11078
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.	10.8	3,320
2	New Insights into the Mechanism of Visible Light Photocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2543-2554.	2.1	569
3	Cr(VI) Adsorption and Reduction by Humic Acid Coated on Magnetite. <i>Environmental Science & Technology</i> , 2014, 48, 8078-8085.	4.6	378
4	Innovative visible light-activated sulfur doped TiO ₂ films for water treatment. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 77-87.	10.8	338
5	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.	10.8	214
6	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.	10.8	197
7	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.	10.8	168
8	Solar photocatalysis for water disinfection: materials and reactor design. <i>Catalysis Science and Technology</i> , 2014, 4, 1211-1226.	2.1	165
9	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
10	Degradation and transformation of bisphenol A in UV/Sodium percarbonate: Dual role of carbonate radical anion. <i>Water Research</i> , 2020, 171, 115394.	5.3	151
11	Advanced Oxidation Processes for Water Treatment. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2112-2113.	2.1	148
12	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.	1.7	147
13	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.	5.3	131
14	Improved charge transport of Nb-doped TiO ₂ nanorods in methylammonium lead iodide bromide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19616-19622.	5.2	127
15	Effective removal of phosphate from aqueous solution using humic acid coated magnetite nanoparticles. <i>Water Research</i> , 2017, 123, 353-360.	5.3	127
16	Optimization of photocatalytic performance of TiO ₂ coated glass microspheres using response surface methodology and the application for degradation of dimethyl phthalate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 262, 7-13.	2.0	122
17	Reductive and oxidative degradation of iopamidol, iodinated X-ray contrast media, by Fe(III)-oxalate under UV and visible light treatment. <i>Water Research</i> , 2014, 67, 144-153.	5.3	107
18	TiO ₂ photocatalytic degradation of phenylarsonic acid. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 210, 61-68.	2.0	95

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19	Free Radical Mechanisms for the Treatment of Methyl tert-Butyl Ether (MTBE) via Advanced Oxidation/Reductive Processes in Aqueous Solutions. <i>Chemical Reviews</i> , 2009, 109, 1302-1345.	23.0	90
20	Destruction of microcystins (cyanotoxins) by UV-254Ånm-based direct photolysis and advanced oxidation processes (AOPs): Influence of variable amino acids on the degradation kinetics and reaction mechanisms. <i>Water Research</i> , 2015, 74, 227-238.	5.3	88
21	A comparative study on the removal of cylindrospermopsin and microcystins from water with NF-TiO ₂ -P25 composite films with visible and UV-Vis light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 30-39.	10.8	81
22	Photochemical Transformation of Aminoglycoside Antibiotics in Simulated Natural Waters. <i>Environmental Science & Technology</i> , 2016, 50, 2921-2930.	4.6	80
23	Anion-Doped TiO ₂ Nanocatalysts for Water Purification under Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13957-13964.	1.8	79
24	Degradation Mechanism of Cyanobacterial Toxin Cylindrospermopsin by Hydroxyl Radicals in Homogeneous UV/H ₂ O ₂ Process. <i>Environmental Science & Technology</i> , 2014, 48, 4495-4504.	4.6	77
25	NF-TiO ₂ photocatalysis of amitrole and atrazine with addition of oxidants under simulated solar light: Emerging synergies, degradation intermediates, and reusable attributes. <i>Journal of Hazardous Materials</i> , 2013, 260, 569-575.	6.5	73
26	Revealing the degradation intermediates and pathways of visible light-induced NF-TiO ₂ photocatalysis of microcystin-LR. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 259-266.	10.8	69
27	Determination and Environmental Implications of Aqueous-Phase Rate Constants in Radical Reactions. <i>Water Research</i> , 2021, 190, 116746.	5.3	65
28	Kinetic and Mechanistic Evaluation of Inorganic Arsenic Species Adsorption onto Humic Acid Grafted Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13540-13547.	1.5	54
29	TiO ₂ photocatalytic degradation and detoxification of cylindrospermopsin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 307-308, 115-122.	2.0	53
30	UV and Visible Light-Driven Production of Hydroxyl Radicals by Reduced Forms of N, F, and P Codoped Titanium Dioxide. <i>Molecules</i> , 2019, 24, 2147.	1.7	46
31	Identification of TiO ₂ photocatalytic destruction byproducts and reaction pathway of cylindrospermopsin. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 591-598.	10.8	40
32	Ultraviolet-Visible Light-Sensitive High Surface Area Phosphorous-Fluorine-Co-Doped TiO ₂ Nanoparticles for the Degradation of Atrazine in Water. <i>Environmental Engineering Science</i> , 2014, 31, 435-446.	0.8	38
33	Novel franklinite-like synthetic zinc-ferrite redox nanomaterial: synthesis, and evaluation for degradation of diclofenac in water. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119098.	10.8	37
34	Detailed NMR investigation of cyclodextrin-perfluorinated surfactant interactions in aqueous media. <i>Journal of Hazardous Materials</i> , 2017, 329, 57-65.	6.5	34
35	Degradation of cylindrospermopsin by using polymorphic titanium dioxide under UV-Vis irradiation. <i>Catalysis Today</i> , 2014, 224, 49-55.	2.2	32
36	Gamma radiolysis of methyl t-butyl ether: a study of hydroxyl radical mediated reaction pathways. <i>Radiation Physics and Chemistry</i> , 2002, 65, 335-341.	1.4	31

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37	Selective Reduction of Cr(VI) in Chromium, Copper and Arsenic (CCA) Mixed Waste Streams Using UV/TiO ₂ Photocatalysis. <i>Molecules</i> , 2015, 20, 2622-2635.	1.7	31
38	Industrial synthesis and characterization of nanophotocatalysts materials: titania. <i>Nanotechnology Reviews</i> , 2016, 5, 467-479.	2.6	31
39	Ozonation of Cylindrospermopsin (Cyanotoxin): Degradation Mechanisms and Cytotoxicity Assessments. <i>Environmental Science & Technology</i> , 2016, 50, 1437-1446.	4.6	30
40	Selective oxidation of H1-antihistamines by unactivated peroxymonosulfate (PMS): Influence of inorganic anions and organic compounds. <i>Water Research</i> , 2020, 186, 116401.	5.3	29
41	¹⁹ F NMR Characterization of the Encapsulation of Emerging Perfluoroethercarboxylic Acids by Cyclodextrins. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8359-8366.	1.2	27
42	The degradation of MTBE/BTEX mixtures by gamma radiolysis. A kinetic modeling study. <i>Radiation Physics and Chemistry</i> , 2002, 65, 343-347.	1.4	24
43	Mechanistic considerations for the degradation of methyl tert-butyl ether (MTBE) by sonolysis: Effect of argon vs. oxygen saturated solutions. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 959-968.	3.8	24
44	Chapter Green Nanotechnology: Development of Nanomaterials for Environmental and Energy Applications. <i>ACS Symposium Series</i> , 2013, , 201-229.	0.5	24
45	Iron(II)-catalyzed enhancement of ultrasonic-induced degradation of diethylstilbestrol (DES). <i>Catalysis Today</i> , 2005, 101, 369-373.	2.2	20
46	Fundamental Studies of the Singlet Oxygen Reactions with the Potent Marine Toxin Domoic Acid. <i>Environmental Science & Technology</i> , 2020, 54, 6073-6081.	4.6	20
47	UV/Sodium percarbonate for bisphenol A treatment in water: Impact of water quality parameters on the formation of reactive radicals. <i>Water Research</i> , 2022, 219, 118457.	5.3	20
48	Kinetic, product, and computational studies of the ultrasonic induced degradation of 4-methylcyclohexanemethanol (MCHM). <i>Water Research</i> , 2017, 126, 164-171.	5.3	19
49	TiO ₂ photocatalytic degradation of the flame retardant tris (2-chloroethyl) phosphate (TCEP) in aqueous solution: A detailed kinetic and mechanistic study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 377, 130-137.	2.0	19
50	β-Cyclodextrin Reverses Binding of Perfluorooctanoic Acid to Human Serum Albumin. <i>Chemical Research in Toxicology</i> , 2018, 31, 277-284.	1.7	18
51	Rapid transformation of H1-antihistamines cetirizine (CET) and diphenhydramine (DPH) by direct peroxymonosulfate (PMS) oxidation. <i>Journal of Hazardous Materials</i> , 2020, 398, 123219.	6.5	16
52	Making waves: Defining advanced reduction technologies from the perspective of water treatment. <i>Water Research</i> , 2022, 212, 118101.	5.3	16
53	Irradiation of ultrasound to 5-methylbenzotriazole in aqueous phase: Degradation kinetics and mechanisms. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 227-236.	3.8	15
54	β-Cyclodextrin Attenuates Perfluorooctanoic Acid Toxicity in the Zebrafish Embryo Model. <i>Toxics</i> , 2017, 5, 31.	1.6	15

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55	Fundamental study of the ultrasonic induced degradation of the popular antihistamine, diphenhydramine (DPH). <i>Water Research</i> , 2018, 144, 265-273.	5.3	15
56	Enhanced host-guest complexation of short chain perfluoroalkyl substances with positively charged β -cyclodextrin derivatives. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2019, 95, 111-117.	0.9	15
57	Degradation of MTBE and Related Gasoline Oxygenates in Aqueous Media by Ultrasound Irradiation. <i>Journal of Environmental Engineering, ASCE</i> , 2002, 128, 806-812.	0.7	14
58	Analytical methods for assessment of cyanotoxin contamination in drinking water sources. <i>Current Opinion in Environmental Science and Health</i> , 2019, 7, 45-51.	2.1	14
59	Reactions of urocanic acid (UCA) methyl esters with singlet oxygen and 4-methyl-1,2,4-triazoline-3,5-dione (MTAD). <i>Tetrahedron</i> , 2006, 62, 10700-10708.	1.0	13
60	Control of <i>Microcystis aeruginosa</i> growth and associated microcystin cyanotoxin remediation by electron beam irradiation (EBI). <i>RSC Advances</i> , 2015, 5, 31292-31297.	1.7	12
61	Reaction pathways and kinetic parameters of sonolytically induced oxidation of dimethyl methylphosphonate in air saturated aqueous solutions. <i>Research on Chemical Intermediates</i> , 1998, 24, 695-705.	1.3	11
62	Hydroxyl Radical Generation and Partitioning in Degradation of Methylene Blue and DEET by Dual-Frequency Ultrasonic Irradiation. <i>Journal of Environmental Engineering, ASCE</i> , 2019, 145, .	0.7	11
63	Removal of As(III) from Water Using the Adsorptive and Photocatalytic Properties of Humic Acid-Coated Magnetite Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1604.	1.9	8
64	Elucidation of specific binding sites and extraction of toxic Gen X from HSA employing cyclodextrin. <i>Journal of Hazardous Materials</i> , 2022, 425, 127765.	6.5	8
65	Ultrasound-induced remediation of the second-generation antihistamine, Cetirizine. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103680.	3.3	3
66	Investigation of Ultrasonically Induced Degradation of Tris(2-chloroethyl) Phosphate in Water. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	0.7	3
67	Oxidative remediation of 4-methylcyclohexanemethanol (MCHM) and propylene glycol phenyl ether (PPh). Evidence of contaminant repair reaction pathways. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13324-13332.	1.3	1
68	The Elimination of Methane Phosphonic Acid, Dimethyl Ester (DMMP) from Aqueous Solution Using $^{60}\text{Co-}\gamma$ and Electron Beam Induced Radiolysis: A Model Compound for Evaluating the Effectiveness of the $\dot{\text{H}}$ -Beam Process in the Destruction of Organophosphorus Chemical Warfare Agents. <i>Journal of Advanced Oxidation Technologies</i> , 1998, 3, .	0.5	0