

Taicheng An

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422
ext. papers

18,674
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
400	Kinetics and mechanism of advanced oxidation processes (AOPs) in degradation of ciprofloxacin in water. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 288-294	21.8	369
399	Enhanced visible-light-driven photocatalytic inactivation of Escherichia coli using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015 , 86, 17-24	12.5	261
398	Earth-abundant Ni ₂ P/g-C ₃ N ₄ lamellar nanohybrids for enhanced photocatalytic hydrogen evolution and bacterial inactivation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 570-580	21.8	228
397	Visible-light-driven photocatalytic inactivation of E. coli K-12 by bismuth vanadate nanotubes: bactericidal performance and mechanism. <i>Environmental Science & Technology</i> , 2012 , 46, 4599-606	10.3	222
396	Preparation and photocatalytic properties of a nanometer ZnO/Bi ₂ O ₃ coupled oxide. <i>Applied Catalysis A: General</i> , 2004 , 260, 215-222	5.1	205
395	Photocatalytic nanomaterials for solar-driven bacterial inactivation: recent progress and challenges. <i>Environmental Science: Nano</i> , 2017 , 4, 782-799	7.1	185
394	Naturally occurring sphalerite as a novel cost-effective photocatalyst for bacterial disinfection under visible light. <i>Environmental Science & Technology</i> , 2011 , 45, 5689-95	10.3	180
393	Enhanced photocatalytic inactivation of Escherichia coli by a novel Z-scheme g-C ₃ N ₄ /m-Bi ₂ O ₄ hybrid photocatalyst under visible light: The role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2017 , 214, 23-33	21.8	158
392	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. <i>Water Research</i> , 2018 , 137, 130-143	12.5	158
391	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of Escherichia coli. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 35-45	21.8	156
390	Comparative study of visible-light-driven photocatalytic mechanisms of dye decolorization and bacterial disinfection by Bi-codoped TiO ₂ microspheres: The role of different reactive species. <i>Applied Catalysis B: Environmental</i> , 2011 , 108-109, 108-116	21.8	156
389	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO ₂ : a case of beta-blockers. <i>Journal of Hazardous Materials</i> , 2010 , 179, 834-9	12.8	153
388	Metal-organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , 2019 , 6, 1006-1025	7.1	152
387	Photocatalytic hydrogen evolution and bacterial inactivation utilizing sonochemical-synthesized g-C ₃ N ₄ /red phosphorus hybrid nanosheets as a wide-spectral-responsive photocatalyst: The role of type I band alignment. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 126-135	21.8	147
386	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO ₂ : A case of sulfa drugs. <i>Catalysis Today</i> , 2010 , 153, 200-207	5.3	145
385	Nature-based catalyst for visible-light-driven photocatalytic CO ₂ reduction. <i>Energy and Environmental Science</i> , 2018 , 11, 2382-2389	35.4	145
384	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 555-569	21.8	144

383	CdIn ₂ S ₄ microsphere as an efficient visible-light-driven photocatalyst for bacterial inactivation: Synthesis, characterizations and photocatalytic inactivation mechanisms. <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 482-490	21.8	141
382	Mechanistic considerations for the advanced oxidation treatment of fluoroquinolone pharmaceutical compounds using TiO ₂ heterogeneous catalysis. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2569-75	2.8	140
381	Visible-light-driven BiOBr nanosheets for highly facet-dependent photocatalytic inactivation of Escherichia coli. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15148-15155	13	134
380	Kinetics, degradation pathway and reaction mechanism of advanced oxidation of 4-nitrophenol in water by a UV/H ₂ O ₂ process. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 788-794	3.5	134
379	Advanced oxidation kinetics and mechanism of preservative propylparaben degradation in aqueous suspension of TiO ₂ and risk assessment of its degradation products. <i>Environmental Science & Technology</i> , 2013 , 47, 2704-12	10.3	131
378	Visible-light-driven photocatalytic inactivation of E. coli by Ag/AgX-CNTs (X = Cl, Br, I) plasmonic photocatalysts: Bacterial performance and deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 301-307	21.8	129
377	Recent advances in VOC elimination by catalytic oxidation technology onto various nanoparticles catalysts: a critical review. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119447	21.8	129
376	Synthesis and characterization of novel plasmonic Ag/AgX-CNTs (X = Cl, Br, I) nanocomposite photocatalysts and synergetic degradation of organic pollutant under visible light. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6959-67	9.5	125
375	Mechanism, kinetics and toxicity assessment of OH-initiated transformation of triclosan in aquatic environments. <i>Water Research</i> , 2014 , 49, 360-70	12.5	123
374	Systematic approach to in-depth understanding of photoelectrocatalytic bacterial inactivation mechanisms by tracking the decomposed building blocks. <i>Environmental Science & Technology</i> , 2014 , 48, 9412-9	10.3	122
373	Hydrothermal transformation of dried grass into graphitic carbon-based high performance electrocatalyst for oxygen reduction reaction. <i>Small</i> , 2014 , 10, 3371-8	11	122
372	Rate Constants and Mechanisms of the Reactions of Cl and Cl with Trace Organic Contaminants. <i>Environmental Science & Technology</i> , 2019 , 53, 11170-11182	10.3	121
371	Kinetics and mechanism of (OH mediated degradation of dimethyl phthalate in aqueous solution: experimental and theoretical studies. <i>Environmental Science & Technology</i> , 2014 , 48, 641-8	10.3	121
370	Photocatalytic degradation kinetics and mechanism of antiviral drug-lamivudine in TiO ₂ dispersion. <i>Journal of Hazardous Materials</i> , 2011 , 197, 229-36	12.8	120
369	Can environmental pharmaceuticals be photocatalytically degraded and completely mineralized in water using g-C ₃ N ₄ /TiO ₂ under visible light irradiation? Implications of persistent toxic intermediates. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 726-732	21.8	118
368	Synthesis of carbon nanotube-anatase TiO ₂ sub-micrometer-sized sphere composite photocatalyst for synergistic degradation of gaseous styrene. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5988-96	9.5	111
367	Pollution characteristics and health risk assessment of volatile organic compounds emitted from different plastic solid waste recycling workshops. <i>Environment International</i> , 2015 , 77, 85-94	12.9	109
366	Activation of persulfates by natural magnetic pyrrhotite for water disinfection: Efficiency, mechanisms, and stability. <i>Water Research</i> , 2017 , 112, 236-247	12.5	108

365	Hydrothermal Carbon-Mediated Fenton-Like Reaction Mechanism in the Degradation of Alachlor: Direct Electron Transfer from Hydrothermal Carbon to Fe(III). <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17115-17124	9.5	103
364	Characterization and the photocatalytic activity of TiO ₂ immobilized hydrophobic montmorillonite photocatalysts: Degradation of decabromodiphenyl ether (BDE 209). <i>Catalysis Today</i> , 2008 , 139, 69-76	5.3	103
363	Recent progress in g-C ₃ N ₄ quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 485-502	13	103
362	Synergistic photocatalytic inactivation mechanisms of bacteria by graphene sheets grafted plasmonic AgAgX (X=Cl, Br, I) composite photocatalyst under visible light irradiation. <i>Water Research</i> , 2016 , 99, 149-161	12.5	102
361	Reassessing the atmospheric oxidation mechanism of toluene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8169-8174	11.5	101
360	Pollution profiles and health risk assessment of VOCs emitted during e-waste dismantling processes associated with different dismantling methods. <i>Environment International</i> , 2014 , 73, 186-94	12.9	100
359	Novel preparation of nanosized ZnO _n O ₂ with high photocatalytic activity by homogeneous co-precipitation method. <i>Materials Letters</i> , 2005 , 59, 3641-3644	3.3	97
358	One-step process for debromination and aerobic mineralization of tetrabromobisphenol-A by a novel <i>Ochrobactrum</i> sp. T isolated from an e-waste recycling site. <i>Bioresource Technology</i> , 2011 , 102, 9148-54	11	95
357	Photoelectrocatalytic decontamination of oilfield produced wastewater containing refractory organic pollutants in the presence of high concentration of chloride ions. <i>Journal of Hazardous Materials</i> , 2006 , 138, 392-400	12.8	95
356	A recyclable mineral catalyst for visible-light-driven photocatalytic inactivation of bacteria: natural magnetic sphalerite. <i>Environmental Science & Technology</i> , 2013 , 47, 11166-73	10.3	93
355	Hydrothermal Splitting of Titanate Fibers to Single-Crystalline TiO ₂ Nanostructures with Controllable Crystalline Phase, Morphology, Microstructure, and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8809-8818	3.8	89
354	Optimization synthesis of carbon nanotubes-anatase TiO ₂ composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2012 , 123-124, 69-77	21.8	88
353	Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. <i>Water Research</i> , 2019 , 166, 115043	12.5	86
352	Cross-linked ZnIn ₂ S ₄ /rGO composite photocatalyst for sunlight-driven photocatalytic degradation of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 266-273	21.8	84
351	Assessment of toxic effects of triclosan on the swordtail fish (<i>Xiphophorus helleri</i>) by a multi-biomarker approach. <i>Chemosphere</i> , 2013 , 90, 1281-8	8.4	80
350	Visible-light-enhanced photothermocatalytic activity of ABO ₃ -type perovskites for the decontamination of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 146-154	21.8	79
349	Insight into the effect of lignocellulosic biomass source on the performance of biochar as persulfate activator for aqueous organic pollutants remediation: Epicarp and mesocarp of citrus peels as examples. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123043	12.8	79
348	Preparation and characterization of highly active mesoporous TiO ₂ photocatalysts by hydrothermal synthesis under weak acid conditions. <i>Microporous and Mesoporous Materials</i> , 2009 , 124, 197-203	5.3	79

347	Theoretical investigation on the kinetics and mechanisms of hydroxyl radical-induced transformation of parabens and its consequences for toxicity: Influence of alkyl-chain length. <i>Water Research</i> , 2016 , 91, 77-85	12.5	78
346	Structural and photocatalytic degradation characteristics of hydrothermally treated mesoporous TiO ₂ . <i>Applied Catalysis A: General</i> , 2008 , 350, 237-243	5.1	77
345	Introduce oxygen vacancies into CeO ₂ catalyst for enhanced coke resistance during photothermocatalytic oxidation of typical VOCs. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118755	21.8	76
344	Biodegradation and detoxification of bisphenol A with one newly-isolated strain <i>Bacillus</i> sp. GZB: kinetics, mechanism and estrogenic transition. <i>Bioresource Technology</i> , 2012 , 114, 224-30	11	76
343	Adsorption and degradation of model volatile organic compounds by a combined titania-montmorillonite-silica photocatalyst. <i>Journal of Hazardous Materials</i> , 2011 , 190, 416-23	12.8	76
342	Photocatalytic degradation of mixed gaseous carbonyl compounds at low level on adsorptive TiO ₂ /SiO ₂ photocatalyst using a fluidized bed reactor. <i>Chemosphere</i> , 2006 , 64, 423-31	8.4	75
341	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO ₂ -assisted synthesized mesoporous carbon confined mixed-phase TiO ₂ nanocomposites derived from MOFs. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 337-346	21.8	74
340	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. <i>Environmental Science & Technology</i> , 2018 , 52, 4774-4784	10.3	73
339	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. <i>Water Research</i> , 2019 , 157, 106-118	12.5	72
338	Preparation of a high-activity ZnO/TiO ₂ photocatalyst via homogeneous hydrolysis method with low temperature crystallization. <i>Materials Letters</i> , 2010 , 64, 1883-1886	3.3	71
337	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antivirus drug acyclovir: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 279-287	21.8	70
336	Enhancement of photocatalytic activity of nano-scale TiO ₂ particles co-doped by rare earth elements and heteropolyacids. <i>Journal of Colloid and Interface Science</i> , 2012 , 380, 121-7	9.3	69
335	Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 87-91	11	65
334	Antibiotic-resistance gene transfer in antibiotic-resistance bacteria under different light irradiation: Implications from oxidative stress and gene expression. <i>Water Research</i> , 2019 , 149, 282-291	12.5	65
333	Pollution profiles and risk assessment of PBDEs and phenolic brominated flame retardants in water environments within a typical electronic waste dismantling region. <i>Environmental Geochemistry and Health</i> , 2015 , 37, 457-73	4.7	60
332	Preparation and characterization of hydrophobic TiO ₂ pillared clay: the effect of acid hydrolysis catalyst and doped Pt amount on photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 501-7	9.3	60
331	Enhanced photocatalytic mechanism of Ag ₃ PO ₄ nano-sheets using MS ₂ (M = Mo, W)/rGO hybrids as co-catalysts for 4-nitrophenol degradation in water. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 11-18	21.8	59
330	In situ photoelectrocatalytic generation of bactericide for instant inactivation and rapid decomposition of Gram-negative bacteria. <i>Journal of Catalysis</i> , 2011 , 277, 88-94	7.3	59

329	Fabrication of highly ordered TiO ₂ nanorod/nanotube adjacent arrays for photoelectrochemical applications. <i>Langmuir</i> , 2010 , 26, 11226-32	4	59
328	Synergetic effect in degradation of formic acid using a new photoelectrochemical reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 152, 155-165	4-7	59
327	Pollution profiles, health risk of VOCs and biohazards emitted from municipal solid waste transfer station and elimination by an integrated biological-photocatalytic flow system: a pilot-scale investigation. <i>Journal of Hazardous Materials</i> , 2013 , 250-251, 147-54	12.8	58
326	Reactive Nitrogen Species Are Also Involved in the Transformation of Micropollutants by the UV/Monochloramine Process. <i>Environmental Science & Technology</i> , 2019 , 53, 11142-11152	10.3	57
325	Novel carbon and defects co-modified g-CN for highly efficient photocatalytic degradation of bisphenol A under visible light. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121323	12.8	57
324	Single atom catalytic oxidation mechanism of formaldehyde on Al doped graphene at room temperature. <i>Chinese Chemical Letters</i> , 2020 , 31, 1966-1969	8.1	56
323	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO ₂ system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117912	21.8	56
322	Enhancing tetrabromobisphenol A biodegradation in river sediment microcosms and understanding the corresponding microbial community. <i>Environmental Pollution</i> , 2016 , 208, 796-802	9.3	56
321	Eco-toxicity and human estrogenic exposure risks from OH-initiated photochemical transformation of four phthalates in water: A computational study. <i>Environmental Pollution</i> , 2015 , 206, 510-7	9.3	55
320	Adsorption mechanisms of different volatile organic compounds onto pristine C ₂ N and Al-doped C ₂ N monolayer: A DFT investigation. <i>Applied Surface Science</i> , 2018 , 450, 484-491	6.7	55
319	Computational consideration on advanced oxidation degradation of phenolic preservative, methylparaben, in water: mechanisms, kinetics, and toxicity assessments. <i>Journal of Hazardous Materials</i> , 2014 , 278, 417-25	12.8	55
318	Thiourea sole doping reagent approach for controllable N, S co-doping of pre-synthesized large-sized carbon nanospheres as electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2015 , 92, 339-347	10.4	54
317	Photoelectrocatalytic degradation of quinoline with a novel three-dimensional electrode-packed bed photocatalytic reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 161, 233-242	4.7	54
316	On-site and off-site atmospheric PBDEs in an electronic dismantling workshop in south China: gas-particle partitioning and human exposure assessment. <i>Environmental Pollution</i> , 2011 , 159, 3529-35	9.3	53
315	Natural magnetic pyrrhotite as a high-Efficient persulfate activator for micropollutants degradation: Radicals identification and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2017 , 340, 435-444	12.8	52
314	Performance of metal-organic frameworks for the adsorptive removal of potentially toxic elements in a water system: a critical review.. <i>RSC Advances</i> , 2019 , 9, 34359-34376	3.7	52
313	Vapor-phase hydrothermal transformation of HTiOF ₃ intermediates into {001} faceted anatase single-crystalline nanosheets. <i>Small</i> , 2012 , 8, 3664-73	11	51
312	Biofiltration treatment of odors from municipal solid waste treatment plants. <i>Waste Management</i> , 2009 , 29, 2051-8	8.6	51

311	AgInS ₂ /In ₂ S ₃ heterostructure sensitization of Escherichia coli for sustainable hydrogen production. <i>Nano Energy</i> , 2018 , 46, 234-240	17.1	50
310	Enhanced visible-light photocatalytic activity to volatile organic compounds degradation and deactivation resistance mechanism of titania confined inside a metal-organic framework. <i>Journal of Colloid and Interface Science</i> , 2018 , 522, 174-182	9.3	50
309	Visible-light-driven photocatalytic bacterial inactivation and the mechanism of zinc oxysulfide under LED light irradiation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1052-1059	13	50
308	Elimination of antibiotic-resistance bacterium and its associated/dissociative bla and aac(3)-II antibiotic-resistance genes in aqueous system via photoelectrocatalytic process. <i>Water Research</i> , 2017 , 125, 219-226	12.5	50
307	Distribution of polycyclic musks in surface sediments from the Pearl River Delta and Macao Coastal Region, South china. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 18-23	3.8	50
306	Metal-organic frameworks derived C/TiO for visible light photocatalysis: Simple synthesis and contribution of carbon species. <i>Journal of Hazardous Materials</i> , 2021 , 403, 124048	12.8	50
305	VOCs elimination and health risk reduction in e-waste dismantling workshop using integrated techniques of electrostatic precipitation with advanced oxidation technologies. <i>Journal of Hazardous Materials</i> , 2016 , 302, 395-403	12.8	49
304	Comparative study on the photoelectrocatalytic inactivation of Escherichia coli K-12 and its mutant Escherichia coli BW25113 using TiO ₂ nanotubes as a photoanode. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 562-570	21.8	49
303	Micro/nano-bubble assisted synthesis of Au/TiO ₂ @CNTs composite photocatalyst for photocatalytic degradation of gaseous styrene and its enhanced catalytic mechanism. <i>Environmental Science: Nano</i> , 2019 , 6, 948-958	7.1	48
302	Photocatalytic degradation mechanism of gaseous styrene over Au/TiO ₂ @CNTs: Relevance of superficial state with deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118969	21.8	48
301	Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge with ultrasound and Fenton processes: Effect of system parameters and synergistic effect study. <i>Journal of Hazardous Materials</i> , 2016 , 307, 7-16	12.8	48
300	Degradation of aniline by electrochemical activation of peroxydisulfate at MWCNT cathode: The proofed concept of nonradical oxidation process. <i>Chemosphere</i> , 2018 , 206, 432-438	8.4	48
299	Synthesis and characterization of novel magnetic Fe ₃ O ₄ /polyurethane foam composite applied to the carrier of immobilized microorganisms for wastewater treatment. <i>Research on Chemical Intermediates</i> , 2010 , 36, 277-288	2.8	48
298	Effects of anions on the photocatalytic and photoelectrocatalytic degradation of reactive dye in a packed-bed reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 223-229	3.5	48
297	Visible light active pure rutile TiO ₂ photoanodes with 100% exposed pyramid-shaped (111) surfaces. <i>Nano Research</i> , 2012 , 5, 762-769	10	46
296	Ag ₂ MoO ₄ nanoparticles encapsulated in g-C ₃ N ₄ for sunlight photodegradation of pollutants. <i>Catalysis Today</i> , 2018 , 315, 205-212	5.3	44
295	Emission patterns and risk assessment of polybrominated diphenyl ethers and bromophenols in water and sediments from the Beijiang River, South China. <i>Environmental Pollution</i> , 2016 , 219, 596-603	9.3	44
294	Accelerated Fenton-like kinetics by visible-light-driven catalysis over iron(III) porphyrin functionalized zirconium MOF: effective promotion on the degradation of organic contaminants. <i>Environmental Science: Nano</i> , 2019 , 6, 2652-2661	7.1	44

293	The synergic degradation mechanism and photothermocatalytic mineralization of typical VOCs over PtCu/CeO ₂ ordered porous catalysts under simulated solar irradiation. <i>Journal of Catalysis</i> , 2019 , 370, 88-96	7.3	44
292	In Situ Photoelectrochemical Chloride Activation Using a WO ₃ Electrode for Oxidative Treatment with Simultaneous H ₂ Evolution under Visible Light. <i>Environmental Science & Technology</i> , 2019 , 53, 9926-9936	10.3	43
291	Synthesis and characterization of TiO ₂ nanotube photoanode and its application in photoelectrocatalytic degradation of model environmental pharmaceuticals. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 1488-1497	3.5	43
290	Comparison of the removal of ethanethiol in twin-biotrickling filters inoculated with strain RG-1 and B350 mixed microorganisms. <i>Journal of Hazardous Materials</i> , 2010 , 183, 372-80	12.8	43
289	Comparing pollution patterns and human exposure to atmospheric PBDEs and PCBs emitted from different e-waste dismantling processes. <i>Journal of Hazardous Materials</i> , 2019 , 369, 142-149	12.8	43
288	The fabrication of TiO ₂ supported on slag-made calcium silicate as low-cost photocatalyst with high adsorption ability for the degradation of dye pollutants in water. <i>Catalysis Today</i> , 2017 , 281, 21-28	5.3	42
287	Visible-light-driven inactivation of Escherichia coli K-12 over thermal treated natural pyrrhotite. <i>Applied Catalysis B: Environmental</i> , 2015 , 176-177, 749-756	21.8	42
286	Spore cells from BPA degrading bacteria Bacillus sp. GZB displaying high laccase activity and stability for BPA degradation. <i>Science of the Total Environment</i> , 2018 , 640-641, 798-806	10.2	41
285	Defect-Type-Dependent Near-Infrared-Driven Photocatalytic Bacterial Inactivation by Defective Bi ₂ S ₃ nanorods. <i>ChemSusChem</i> , 2019 , 12, 890-897	8.3	40
284	Mechanistic study of the visible-light-driven photocatalytic inactivation of bacteria by graphene oxide/zinc oxide composite. <i>Applied Surface Science</i> , 2015 , 358, 137-145	6.7	38
283	Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1767	4.5	38
282	Photolytic degradation of decabromodiphenyl ethane (DBDPE). <i>Chemosphere</i> , 2012 , 89, 844-9	8.4	38
281	Mechanistic study and mutagenicity assessment of intermediates in photocatalytic degradation of gaseous toluene. <i>Chemosphere</i> , 2010 , 78, 313-8	8.4	38
280	Protection Mechanisms of Periphytic Biofilm to Photocatalytic Nanoparticle Exposure. <i>Environmental Science & Technology</i> , 2019 , 53, 1585-1594	10.3	38
279	Natural sphalerite nanoparticles can accelerate horizontal transfer of plasmid-mediated antibiotic-resistance genes. <i>Environment International</i> , 2020 , 136, 105497	12.9	37
278	Novel approach for removing brominated flame retardant from aquatic environments using Cu/Fe-based metal-organic frameworks: A case of hexabromocyclododecane (HBCD). <i>Science of the Total Environment</i> , 2018 , 621, 1533-1541	10.2	37
277	Unveiling the photoelectrocatalytic inactivation mechanism of Escherichia coli: Convincing evidence from responses of parent and anti-oxidation single gene knockout mutants. <i>Water Research</i> , 2016 , 88, 135-143	12.5	37
276	Anatase TiO ₂ mesocrystals with exposed (001) surface for enhanced photocatalytic decomposition capability toward gaseous styrene. <i>Catalysis Today</i> , 2014 , 224, 216-224	5.3	37

275	Treatment of organic waste gas in a paint plant by combined technique of biotrickling filtration with photocatalytic oxidation. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 645-653	14.7	37
274	Comparative study of the eliminating of waste gas containing toluene in twin biotrickling filters packed with molecular sieve and polyurethane foam. <i>Journal of Hazardous Materials</i> , 2009 , 167, 275-81	12.8	37
273	Criteria of active sites in nonradical persulfate activation process from integrated experimental and theoretical investigations: boron-nitrogen-co-doped nanocarbon-mediated peroxydisulfate activation as an example. <i>Environmental Science: Nano</i> , 2020 , 7, 1899-1911	7.1	36
272	Biodegradation of ethanethiol in aqueous medium by a new <i>Lysinibacillus sphaericus</i> strain RG-1 isolated from activated sludge. <i>Biodegradation</i> , 2010 , 21, 1057-66	4.1	36
271	Recent Patents on Immobilized Microorganism Technology and Its Engineering Application in Wastewater Treatment. <i>Recent Patents on Engineering</i> , 2008 , 2, 28-35	0.3	36
270	Photoelectrocatalytic degradation of oxalic acid in aqueous phase with a novel three-dimensional electrode-hollow quartz tube photoelectrocatalytic reactor. <i>Applied Catalysis A: General</i> , 2005 , 279, 247-256	5.1	36
269	Photocatalytic ozonation mechanism of gaseous n-hexane on MOx/TiO ₂ foam nickel composite (M = Cu, Mn, Ag): unveiling the role of OH and O ₂ . <i>Environmental Science: Nano</i> , 2019 , 6, 959-969	7.1	35
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267	Photochemical transformation of terbutaline (pharmaceutical) in simulated natural waters: degradation kinetics and mechanisms. <i>Water Research</i> , 2013 , 47, 6558-65	12.5	35
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