

# Taicheng An

## List of Publications by Year in Descending Order

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

400  
papers

15,011  
citations

65  
h-index

99  
g-index

422  
ext. papers

18,674  
ext. citations

9.6  
avg, IF

7.23  
L-index

#	Paper	IF	Citations
400	Competing pathways of cresol formation in toluene photooxidation: OH-toluene adducts react with NO or with O?. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 114, 211-220	6.4	
399	Formation Mechanism of Iodinated Aromatic Disinfection Byproducts: Acid Catalysis with HOI.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	1
398	Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes.. <i>Nature Communications</i> , <b>2022</b> , 13, 295	17.4	9
397	Contribution of reaction of atmospheric amine with sulfuric acid to mixing particle formation from clay mineral.. <i>Science of the Total Environment</i> , <b>2022</b> , 821, 153336	10.2	0
396	The stress response mechanisms of biofilm formation under sub-lethal photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121200	21.8	2
395	Insight into phototransformation mechanism and toxicity evolution of novel and legacy brominated flame retardants in water: A comparative analysis.. <i>Water Research</i> , <b>2022</b> , 211, 118041	12.5	0
394	Pollution profiles and human health risk assessment of atmospheric organophosphorus esters in an e-waste dismantling park and its surrounding area. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 151206	10.2	2
393	Mixed bromine/chlorine transformation products of tetrabromobisphenol A: Potential specific molecular markers in e-waste dismantling areas. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127126	12.8	1
392	Remediation of preservative ethylparaben in water using natural sphalerite: Kinetics and mechanisms.. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 113, 72-80	6.4	1
391	Highly efficient adsorption and catalytic degradation of ciprofloxacin by a novel heterogeneous Fenton catalyst of hexapod-like pyrite nanosheets mineral clusters. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 300, 120734	21.8	22
390	A new method of simultaneous determination of atmospheric amines in gaseous and particulate phases by gas chromatography-mass spectrometry.. <i>Journal of Environmental Sciences</i> , <b>2022</b> , 114, 401-411	6.4	1
389	Response mechanisms of different antibiotic-resistant bacteria with different resistance action targets to the stress from photocatalytic oxidation.. <i>Water Research</i> , <b>2022</b> , 218, 118407	12.5	1
388	Potent necrosis effect of methanethiol mediated by METTL7B enzyme bioactivation mechanism in 16HBE cell.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 236, 113486	7	0
387	Photoelectrocatalytic inactivation mechanism of E. coli DH5 $\alpha$ (TET) and synergistic degradation of corresponding antibiotics in water.. <i>Water Research</i> , <b>2022</b> , 215, 118240	12.5	3
386	Enhanced catalytic elimination of typical VOCs over ZnCoOx catalyst derived from in situ pyrolysis of ZnCo bimetallic zeolitic imidazolate frameworks. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 308, 121212	21.8	4
385	How Does Vegetable Waste Decomposition Influence the Antibiotic Resistome and the Human Bacterial Pathogen Structure in Leachates?. <i>ACS ES&amp;T Water</i> , <b>2022</b> , 2, 226-236		0
384	Detection of excited triplet species from photolysis of carbonyls: Direct evidence for single oxygen formation in atmospheric environment.. <i>Science of the Total Environment</i> , <b>2022</b> , 837, 155464	10.2	

383	Identification of specific halogenated polycyclic aromatic hydrocarbons in surface soils of petrochemical, flame retardant, and electronic waste dismantling industrial parks. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 129160	12.8	
382	The respiratory cytotoxicity of typical organophosphorus flame retardants on five different respiratory tract cells: Which are the most sensitive one?. <i>Environmental Pollution</i> , <b>2022</b> , 307, 119564	9.3	3
381	Oxygen Isotope Tracing Study to Directly Reveal the Role of O and HO in the Photocatalytic Oxidation Mechanism of Gaseous Monoaromatics. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	4
380	Occurrence and fate of polycyclic aromatic hydrocarbons from electronic waste dismantling activities: A critical review from environmental pollution to human health. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 127683	12.8	6
379	Atomic-level insight into effect of substrate concentration and relative humidity on photocatalytic degradation mechanism of gaseous styrene. <i>Chemosphere</i> , <b>2021</b> , 133074	8.4	0
378	The underappreciated role of monocarbonyl-dicarbonyl interconversion in secondary organic aerosol formation during photochemical oxidation of m-xylene.. <i>Science of the Total Environment</i> , <b>2021</b> , 152575	10.2	
377	Recent strategies for enhancing the catalytic activity of CO <sub>2</sub> hydrogenation to formate/formic acid over Pd-based catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 54, 101765	7.6	6
376	The source and transport of bioaerosols in the air: A review. <i>Frontiers of Environmental Science and Engineering</i> , <b>2021</b> , 15, 44	5.8	17
375	Mechanism for Rapid Conversion of Amines to Ammonium Salts at the Air-Particle Interface. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 1171-1178	16.4	9
374	Photochemical degradation of fragrance ingredient benzyl formate in water: Mechanism and toxicity assessment. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 211, 111950	7	4
373	Highly efficient and selective photoreduction of CO to CO with nanosheet g-CN as compared with its bulk counterpart. <i>Environmental Research</i> , <b>2021</b> , 195, 110880	7.9	3
372	Superoxide radical enhanced photocatalytic performance of styrene alters its degradation mechanism and intermediate health risk on TiO <sub>2</sub> /graphene surface. <i>Environmental Research</i> , <b>2021</b> , 195, 110747	7.9	18
371	Photocatalytic H <sub>2</sub> O <sub>2</sub> production using Ti <sub>3</sub> C <sub>2</sub> MXene as a non-noble metal cocatalyst. <i>Applied Catalysis A: General</i> , <b>2021</b> , 618, 118127	5.1	12
370	First-Principles Evaluation of Volatile Organic Compounds Degradation in Z-Scheme Photocatalytic Systems: MXene and Graphitic-CN Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 23843-23852	9.5	18
369	Formation kinetics and mechanisms of ozone and secondary organic aerosols from photochemical oxidation of different aromatic hydrocarbons: dependence on NO <sub>x</sub> and organic substituents. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 7567-7578	6.8	1
368	Visible Light-Induced Marine Bacterial Inactivation in Seawater by an In Situ Photo-Fenton System without Additional Oxidants: Implications for Ballast Water Sterilization. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 1483-1494		8
367	Traditional and Emerging Water Disinfection Technologies Challenging the Control of Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. <i>ACS ES&amp;T Engineering</i> , <b>2021</b> , 1, 1046-1064		9
366	Photo-piezoelectric synergistic degradation of typical volatile organic compounds on BaTiO <sub>3</sub> . <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	2

365	Can photocatalytic technology facilitate conjugative transfer of ARGs in bacteria at the interface of natural sphalerite under different light irradiation?. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 287, 119977	21.8	13
364	Assessing the role of mineral particles in the atmospheric photooxidation of typical carbonyl compound. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 105, 56-63	6.4	1
363	Oily sludge derived carbons as peroxymonosulfate activators for removing aqueous organic pollutants: Performances and the key role of carbonyl groups in electron-transfer mechanism. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125552	12.8	26
362	Photocatalytic inactivation and destruction of harmful microalgae <i>Karenia mikimotoi</i> under visible-light irradiation: Insights into physiological response and toxicity assessment. <i>Environmental Research</i> , <b>2021</b> , 198, 111295	7.9	5
361	Increased adverse effects during metabolic transformation of short-chain chlorinated paraffins by cytochrome P450: A theoretical insight into 1-chlorodecane. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124391	12.8	2
360	Recent advances in VOC elimination by catalytic oxidation technology onto various nanoparticles catalysts: a critical review. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 281, 119447	21.8	129
359	Theoretical exploration of VOCs removal mechanism by carbon nanotubes through persulfate-based advanced oxidation processes: Adsorption and catalytic oxidation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124684	12.8	30
358	Mechanisms of transplacental transport and barrier of polybrominated diphenyl ethers: A comprehensive human, Sprague-Dawley rat, BeWo cell and molecular docking study. <i>Environmental Pollution</i> , <b>2021</b> , 270, 116091	9.3	
357	Manipulation of plasmon-induced hot electron transport in Pd/MoO <sub>3</sub> -x@ZIF-8: Boosting the activity of Pd-catalyzed nitroaromatic hydrogenation under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119511	21.8	11
356	Occurrence and distribution of typical semi-volatile organic chemicals (SVOCs) in paired indoor and outdoor atmospheric fine particle samples from cities in southern China. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116123	9.3	10
355	DBP formation and toxicity alteration during UV/chlorine treatment of wastewater and the effects of ammonia and bromide. <i>Water Research</i> , <b>2021</b> , 188, 116549	12.5	33
354	Novel two-dimensional crystalline carbon nitrides beyond g-C <sub>3</sub> N <sub>4</sub> : structure and applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17-33	13	29
353	Metal-organic frameworks derived C/TiO for visible light photocatalysis: Simple synthesis and contribution of carbon species. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 124048	12.8	50
352	Core-shell Confinement MnCeO <sub>x</sub> @ZSM-5 Catalyst for NO <sub>x</sub> Removal with Enhanced Performances to Water and SO <sub>2</sub> Resistance. <i>Nanostructure Science and Technology</i> , <b>2021</b> , 165-179	0.9	
351	Piezoelectric activation of peroxymonosulfate by MoS <sub>2</sub> nanoflowers for the enhanced degradation of aqueous organic pollutants. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 784-794	7.1	21
350	Boosting the photocatalytic degradation of ethyl acetate by a Z-scheme Au <sup>III</sup> IO <sub>2</sub> @NH <sub>2</sub> -UiO-66 heterojunction with ultrafine Au as an electron mediator. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 2542-2553	7.1	5
349	Pollution profile of waterborne bacterial and fungal community in urban Rivers of Pearl River estuary: Microbial safety assessment. <i>Journal of Freshwater Ecology</i> , <b>2021</b> , 36, 305-322	1.4	0
348	Volatile organic compounds in an e-waste dismantling region: From spatial-seasonal variation to human health impact. <i>Chemosphere</i> , <b>2021</b> , 275, 130022	8.4	10

347	Low concentration Tetrabromobisphenol A (TBBPA) elevating overall metabolism by inducing activation of the Ras signaling pathway. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125797	12.8	6
346	In vitro toxic synergistic effects of exogenous pollutants-trimethylamine and its metabolites on human respiratory tract cells. <i>Science of the Total Environment</i> , <b>2021</b> , 783, 146915	10.2	8
345	Insights into the Photodegradation of the Contact Allergen Fragrance Cinnamyl Alcohol: Kinetics, Mechanism, and Toxicity. <i>Environmental Toxicology and Chemistry</i> , <b>2021</b> , 40, 2705-2714	3.8	
344	PAHs and their hydroxylated metabolites in the human fingernails from e-waste dismantlers: Implications for human non-invasive biomonitoring and exposure. <i>Environmental Pollution</i> , <b>2021</b> , 283, 117059	9.3	7
343	Contributions of meat waste decomposition to the abundance and diversity of pathogens and antibiotic-resistance genes in the atmosphere. <i>Science of the Total Environment</i> , <b>2021</b> , 784, 147128	10.2	6
342	An inescapable fact: Toxicity increase during photo-driven degradation of emerging contaminants in water environments. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2021</b> , 30, 100472	7.9	1
341	A review of bismuth-based photocatalysts for antibiotic degradation: Insight into the photocatalytic degradation performance, pathways and relevant mechanisms. <i>Environmental Research</i> , <b>2021</b> , 199, 111360	7.9	29
340	Human exposome and biomarker database for soil pollutants at typical sites of industrial contamination. <i>Science Bulletin</i> , <b>2021</b> , 66, 1705-1708	10.6	2
339	Pollution profiles, removal performance and health risk reduction of malodorous volatile organic compounds emitted from municipal leachate treating process. <i>Journal of Cleaner Production</i> , <b>2021</b> , 315, 128141	10.3	4
338	Density functional theory study on the enhanced adsorption mechanism of gaseous pollutants on Al-doped Ti <sub>2</sub> CO <sub>2</sub> monolayer. <i>Sustainable Materials and Technologies</i> , <b>2021</b> , 29, e00294	5.3	1
337	Fouling of TiO <sub>2</sub> induced by natural organic matters during photocatalytic water treatment: Mechanisms and regeneration strategy. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 294, 120252	21.8	15
336	Identifying Dermal Uptake as a Significant Pathway for Human Exposure to Typical Semivolatile Organic Compounds in an E-Waste Dismantling Site: The Relationship of Contaminant Levels in Handwipes and Urine Metabolites. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 14026-14036	10.3	2
335	The exposures and health effects of benzene, toluene and naphthalene for Chinese chefs in multiple cooking styles of kitchens. <i>Environment International</i> , <b>2021</b> , 156, 106721	12.9	8
334	Metagenomic profiles and health risks of pathogens and antibiotic resistance genes in various industrial wastewaters and the associated receiving surface water. <i>Chemosphere</i> , <b>2021</b> , 283, 131224	8.4	5
333	Real-time on-site monitoring of soil ammonia emissions using membrane permeation-based sensing probe. <i>Environmental Pollution</i> , <b>2021</b> , 289, 117850	9.3	2
332	Photocatalytic mineralization of indoor VOC mixtures over unique ternary TiO <sub>2</sub> /C/MnO <sub>2</sub> with high adsorption selectivity. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131678	14.7	1
331	Solar-light-triggered regenerative adsorption removal of styrene by silver nanoparticles incorporated in metal-organic frameworks. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 543-553	7.1	6
330	Density functional theory investigation on selective adsorption of VOCs on borophene. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 2803-2803	8.1	16

329	Mechanism of atmospheric organic amines reacted with ozone and implications for the formation of secondary organic aerosols. <i>Science of the Total Environment</i> , <b>2020</b> , 737, 139830	10.2	10
328	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> , <b>2020</b> , 399, 123043	12.8	79
327	Mechanism investigation and stable isotope change during photochemical degradation of tetrabromobisphenol A (TBBPA) in water under LED white light irradiation. <i>Chemosphere</i> , <b>2020</b> , 258, 127378	8.4	7
326	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> , <b>2020</b> , 7, 1899-1911	7.1	36
325	Carbenium ion-mediated oligomerization of methylglyoxal for secondary organic aerosol formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13294-13299	11.5	12
324	Enhanced H-abstraction contribution for oxidation of xylenes via mineral particles: Implications for particulate matter formation and human health. <i>Environmental Research</i> , <b>2020</b> , 186, 109568	7.9	9
323	Reactor characterization and primary application of a state of art dual-reactor chamber in the investigation of atmospheric photochemical processes. <i>Journal of Environmental Sciences</i> , <b>2020</b> , 98, 161-168	6.4	3
322	Enhanced uptake of glyoxal at the acidic nanoparticle interface: implications for secondary organic aerosol formation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 1126-1135	7.1	7
321	Mechanism of the atmospheric chemical transformation of acetylacetone and its implications in night-time second organic aerosol formation. <i>Science of the Total Environment</i> , <b>2020</b> , 720, 137610	10.2	2
320	Atomic-scale identification of influencing factors of sodium dendrite growth on different current collectors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10199-10205	13	9
319	Bioaccessibilities of metal(loid)s and organic contaminants in particulates measured in simulated human lung fluids: A critical review. <i>Environmental Pollution</i> , <b>2020</b> , 265, 115070	9.3	15
318	Density functional theory calculations on single atomic catalysis: Ti-decorated Ti <sub>3</sub> C <sub>2</sub> O <sub>2</sub> monolayer (MXene) for HCHO oxidation. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1633-1644	11.3	26
317	Pollution profiles of antibiotic resistance genes associated with airborne opportunistic pathogens from typical area, Pearl River Estuary and their exposure risk to human. <i>Environment International</i> , <b>2020</b> , 143, 105934	12.9	27
316	Malodorous gases production from food wastes decomposition by indigenous microorganisms. <i>Science of the Total Environment</i> , <b>2020</b> , 717, 137175	10.2	10
315	Accelerated evolution of bacterial antibiotic resistance through early emerged stress responses driven by photocatalytic oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 269, 118829	21.8	29
314	Introduce oxygen vacancies into CeO <sub>2</sub> catalyst for enhanced coke resistance during photothermocatalytic oxidation of typical VOCs. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 269, 118755	21.8	76
313	Single atom catalytic oxidation mechanism of formaldehyde on Al doped graphene at room temperature. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 1966-1969	8.1	56
312	Natural sphalerite nanoparticles can accelerate horizontal transfer of plasmid-mediated antibiotic-resistance genes. <i>Environment International</i> , <b>2020</b> , 136, 105497	12.9	37



311	Bacterial response mechanism during biofilm growth on different metal material substrates: EPS characteristics, oxidative stress and molecular regulatory network analysis. <i>Environmental Research</i> , <b>2020</b> , 185, 109451	7.9	16
310	Visible light activation of persulfate by magnetic hydrochar for bacterial inactivation: Efficiency, recyclability and mechanisms. <i>Water Research</i> , <b>2020</b> , 176, 115746	12.5	32
309	Photocatalytic degradation mechanism of gaseous styrene over Au/TiO <sub>2</sub> @CNTs: Relevance of superficial state with deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 118969	21.8	48
308	Hierarchical zeolite enveloping Pd-CeO <sub>2</sub> nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124714	14.7	24
307	In situ growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. <i>Nanoscale</i> , <b>2020</b> , 12, 9462-9470	7.7	31
306	Unexpected culprit of increased estrogenic effects: Oligomers in the photodegradation of preservative ethylparaben in water. <i>Water Research</i> , <b>2020</b> , 176, 115745	12.5	11
305	The exposure risk of typical VOCs to the human beings via inhalation based on the respiratory deposition rates by proton transfer reaction-time of flight-mass spectrometer. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 197, 110615	7	11
304	Spatial and temporal distribution characteristics and ozone formation potentials of volatile organic compounds from three typical functional areas in China. <i>Environmental Research</i> , <b>2020</b> , 183, 109141	7.9	14
303	The formation mechanism of antibiotic-resistance genes associated with bacterial communities during biological decomposition of household garbage. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122973	12.8	16
302	Microwave-assisted synthesis of defective tungsten trioxide for photocatalytic bacterial inactivation: Role of the oxygen vacancy. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1488-1497	11.3	9
301	In-situ decoration of metallic Bi on BiOBr with exposed (110) facets and surface oxygen vacancy for enhanced solar light photocatalytic degradation of gaseous n-hexane. <i>Chinese Journal of Catalysis</i> , <b>2020</b> , 41, 1603-1612	11.3	33
300	Insights into biomonitoring of human exposure to polycyclic aromatic hydrocarbons with hair analysis: A case study in e-waste recycling area. <i>Environment International</i> , <b>2020</b> , 136, 105432	12.9	14
299	A new advance in the potential exposure to bio and bio-derived halogenated flame retardants in the atmospheric environments and biota: From occurrence to transformation products and metabolites. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 50, 1935-1983	11.1	9
298	Recent progress in g-C <sub>3</sub> N <sub>4</sub> quantum dots: synthesis, properties and applications in photocatalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 485-502	13	103
297	Removal of volatile organic compounds (VOCs) emitted from a textile dyeing wastewater treatment plant and the attenuation of respiratory health risks using a pilot-scale biofilter. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 120019	10.3	31
296	Hierarchical three-dimensionally ordered macroporous Fe-V binary metal oxide catalyst for low temperature selective catalytic reduction of NO <sub>x</sub> from marine diesel engine exhaust. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118455	21.8	20
295	Few-layered tungsten selenide as a co-catalyst for visible-light-driven photocatalytic production of hydrogen peroxide for bacterial inactivation. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3877-3887	7.1	10
294	Field study of PAHs with their derivatives emitted from e-waste dismantling processes and their comprehensive human exposure implications. <i>Environment International</i> , <b>2020</b> , 144, 106059	12.9	12

293	Molecular Interaction and Orientation of HOCl on Aqueous and Ice Surfaces. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17329-17333	16.4	1
292	Atmospheric diffusion profiles and health risks of typical VOC: Numerical modelling study. <i>Journal of Cleaner Production</i> , <b>2020</b> , 275, 122982	10.3	17
291	Evaluation procedure of photocatalysts for VOCs degradation from the view of density functional theory calculations: g-C <sub>3</sub> N <sub>4</sub> dots/graphene as an example. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20363-20372	13.3	28
290	New Mixed Bromine/Chlorine Transformation Products of Tetrabromobisphenol A: Synthesis and Identification in Dust Samples from an E-Waste Dismantling Site. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12235-12244	10.3	12
289	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> , <b>2020</b> , 384, 121323	12.8	57
288	Simultaneous Determination of Multiple Classes of Phenolic Compounds in Human Urine: Insight into Metabolic Biomarkers of Occupational Exposure to E-Waste. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 323-329	11	13
287	Photocatalytic reductive defluorination of perfluorooctanoic acid in water under visible light irradiation: the role of electron donor. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 1638-1648	4.2	10
286	A non-blue laccase of <i>Bacillus</i> sp. GZB displays manganese-oxidase activity: A study of laccase characterization, Mn(II) oxidation and prediction of Mn(II) oxidation mechanism. <i>Chemosphere</i> , <b>2020</b> , 252, 126619	8.4	5
285	The pollution profiles and human exposure risks of chlorinated and brominated PAHs in indoor dusts from e-waste dismantling workshops: Comparison of GC-MS, GC-MS/MS and GC-MS/MS determination methods. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 394, 122573	12.8	21
284	Rate Constants and Mechanisms of the Reactions of Cl and Cl with Trace Organic Contaminants. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 11170-11182	10.3	121
283	Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. <i>Water Research</i> , <b>2019</b> , 166, 115043	12.5	86
282	Sub-lethal photocatalysis bactericidal technology cause longer persistence of antibiotic-resistance mutant and plasmid through the mechanism of reduced fitness cost. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 698-705	21.8	18
281	Micro/nano-bubble assisted synthesis of Au/TiO <sub>2</sub> @CNTs composite photocatalyst for photocatalytic degradation of gaseous styrene and its enhanced catalytic mechanism. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 948-958	7.1	48
280	Photochemical degradation kinetics and mechanism of short-chain chlorinated paraffins in aqueous solution: A case of 1-chlorodecane. <i>Environmental Pollution</i> , <b>2019</b> , 247, 362-370	9.3	13
279	Photocatalytic ozonation mechanism of gaseous n-hexane on MOx/TiO <sub>2</sub> foam nickel composite (M = Cu, Mn, Ag): unveiling the role of OH and O <sub>2</sub> . <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 959-969	7.1	35
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272	Silver sulfide nanoparticles in aqueous environments: formation, transformation and toxicity. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1674-1687	7.1	22
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160	Controlled growth of CuO/Cu <sub>2</sub> O hollow microsphere composites as efficient visible-light-active photocatalysts. <i>Applied Catalysis A: General</i> , <b>2016</b> , 521, 34-41	5.1	32
159	Degradation of aromatic amines in textile-dyeing sludge by combining the ultrasound technique with potassium permanganate treatment. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 314, 1-10	12.8	35
158	The health risk attenuation by simultaneous elimination of atmospheric VOCs and POPs from an e-waste dismantling workshop by an integrated de-dusting with decontamination technique. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 299-305	14.7	23
157	Variation of arsenic concentration on surfaces of in-service CCA-treated wood planks in a park and its influencing field factors. <i>Environmental Monitoring and Assessment</i> , <b>2015</b> , 187, 4214	3.1	5
156	Nitrogen-Doped Carbon Nanodots@Nanospheres as An Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , <b>2015</b> , 165, 7-13	6.7	32
155	Photocatalytic degradation of three amantadine antiviral drugs as well as their eco-toxicity evolution. <i>Catalysis Today</i> , <b>2015</b> , 258, 602-609	5.3	9
154	Visible-light-driven inactivation of Escherichia coli K-12 over thermal treated natural pyrrhotite. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 176-177, 749-756	21.8	42
153	Photocatalytic and photoelectrocatalytic degradation and mineralization of small biological compounds amino acids at TiO <sub>2</sub> photoanodes. <i>Catalysis Today</i> , <b>2015</b> , 245, 46-53	5.3	9
152	A fluorescent quenching performance enhancing principle for carbon nanodot-sensitized aqueous solar cells. <i>Nano Energy</i> , <b>2015</b> , 13, 124-130	17.1	29
151	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> , <b>2015</b> , 92, 339-347	10.4	54
150	Simultaneous nutrient removal, optimised CO <sub>2</sub> mitigation and biofuel feedstock production by Chlorogonium sp. grown in secondary treated non-sterile saline sewage effluent. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 297, 241-50	12.8	13

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148	Mechanistic study of the visible-light-driven photocatalytic inactivation of bacteria by graphene oxide/zinc oxide composite. <i>Applied Surface Science</i> , <b>2015</b> , 358, 137-145	6.7	38
147	Eco-toxicity and human estrogenic exposure risks from OH-initiated photochemical transformation of four phthalates in water: A computational study. <i>Environmental Pollution</i> , <b>2015</b> , 206, 510-7	9.3	55
146	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> , <b>2015</b> , 37, 457-73	4.7	60
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140	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antiviral drug acyclovir: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 164, 279-287	21.8	70
139	Theoretical investigation on the adsorption configuration and OH-initiated photocatalytic degradation mechanism of typical atmospheric VOCs styrene onto (TiO <sub>2</sub> ) <sub>n</sub> clusters. <i>Scientific Reports</i> , <b>2015</b> , 5, 15059	4.9	15
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134	Dual Roles of Capsular Extracellular Polymeric Substances in Photocatalytic Inactivation of <i>Escherichia coli</i> : Comparison of <i>E. coli</i> BW25113 and Isogenic Mutants. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 5174-83	4.8	32
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130	Efficient bio-deodorization of thioanisole by a novel bacterium <i>Brevibacillus borstelensis</i> GIGAN1 immobilized onto different packing materials in twin biotrickling filter. <i>Bioresource Technology</i> , <b>2015</b> , 182, 82-88	11	15
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119	Concurrent degradation of tetrabromobisphenol A by <i>Ochrobactrum</i> sp. T under aerobic condition and estrogenic transition during these processes. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 104, 220-5	7	28
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117	Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 87-91	11	65
116	Kinetics and mechanism of $HO^{\cdot}$ mediated degradation of dimethyl phthalate in aqueous solution: experimental and theoretical studies. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 641-8	10.3	121
115	Anatase $TiO_2$ mesocrystals with exposed (001) surface for enhanced photocatalytic decomposition capability toward gaseous styrene. <i>Catalysis Today</i> , <b>2014</b> , 224, 216-224	5.3	37
114	Comparative study on the photoelectrocatalytic inactivation of <i>Escherichia coli</i> K-12 and its mutant <i>Escherichia coli</i> BW25113 using $TiO_2$ nanotubes as a photoanode. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 562-570	21.8	49

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41	Hydrothermal Splitting of Titanate Fibers to Single-Crystalline TiO <sub>2</sub> Nanostructures with Controllable Crystalline Phase, Morphology, Microstructure, and Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 8809-8818	3.8	89
40	Recent Patents on Immobilized Microorganism Technology and Its Engineering Application in Wastewater Treatment. <i>Recent Patents on Engineering</i> , <b>2008</b> , 2, 28-35	0.3	36
39	Photocatalytic degradation of dimethyl phthalate ester using novel hydrophobic TiO <sub>2</sub> pillared montmorillonite photocatalyst. <i>Research on Chemical Intermediates</i> , <b>2008</b> , 34, 67-83	2.8	35
38	Comparative study of the elimination of toluene vapours in twin biotrickling filters using two microorganisms <i>Bacillus cereus</i> S1 and S2. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2008</b> , 83, 1019-1026	3.5	29
37	Preparation and characterization of hydrophobic TiO <sub>2</sub> (2) pillared clay: the effect of acid hydrolysis catalyst and doped Pt amount on photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 320, 501-7	9.3	60
36	Structural and photocatalytic degradation characteristics of hydrothermally treated mesoporous TiO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2008</b> , 350, 237-243	5.1	77
35	Characterization and the photocatalytic activity of TiO <sub>2</sub> immobilized hydrophobic montmorillonite photocatalysts: Degradation of decabromodiphenyl ether (BDE 209). <i>Catalysis Today</i> , <b>2008</b> , 139, 69-76	5.3	103
34	Distribution of polycyclic musks in surface sediments from the Pearl River Delta and Macao Coastal Region, South china. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 18-23	3.8	50
33	Mutagenicity assessment of produced water during photoelectrocatalytic degradation. <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 416-23	3.8	27
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29	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> , <b>2005</b> , 279, 247-256	5.1	36
28	Novel preparation of nanosized ZnO/BiO <sub>2</sub> with high photocatalytic activity by homogeneous co-precipitation method. <i>Materials Letters</i> , <b>2005</b> , 59, 3641-3644	3.3	97
27	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> , <b>2005</b> , 80, 223-229	3.5	48
26	Photocatalytic degradation of gaseous trichloroethene using immobilized ZnO/SnO <sub>2</sub> coupled oxide in a flow-through photocatalytic reactor. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2005</b> , 80, 251-258	3.5	35
25	Sorption kinetics of naphthalene and phenanthrene in loess soils. <i>Environmental Geology</i> , <b>2005</b> , 47, 467-474		13
24	Photoelectrocatalytic degradation of quinoline with a novel three-dimensional electrode-packed bed photocatalytic reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2004</b> , 161, 233-242	4.7	54

23	Preparation and photocatalytic properties of a nanometer ZnO/BnO <sub>2</sub> coupled oxide. <i>Applied Catalysis A: General</i> , <b>2004</b> , 260, 215-222	5.1	205
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21	Kinetics, degradation pathway and reaction mechanism of advanced oxidation of 4-nitrophenol in water by a UV/H <sub>2</sub> O <sub>2</sub> process. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2003</b> , 78, 788-794	3.5	134
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19	Photochemical degradation performance of quinoline aqueous solution in the presence of hydrogen peroxide. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2003</b> , 38, 2599-611	2.3	6
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17	Towards understanding the TiO <sub>2</sub> -mediated photoredox process of Cu(II)-formic acid solution. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2003</b> , 38, 949-63	2.3	1
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11	Synthesis and photocatalytic oxidation properties of Co(II)-tetra-[4-(p-toluene-sulfonyloxy) phenyl] porphyrin. <i>Journal of Molecular Catalysis A</i> , <b>2000</b> , 159, 143-151		10
10	Simultaneous Spectrophotometric Determination of Nitrite and Nitrate in Water Samples by Flow-Injection Analysis. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2000</b> , 76, 89-98	1.8	14
9	Photocatalytic oxidation of aromatic aldehydes with Co(II)tetra-(benzoyloxyphenyl)porphyrin and molecular oxygen. <i>Journal of Molecular Catalysis A</i> , <b>1999</b> , 147, 165-172		13
8	An on-line determination of chlorine dioxide using chlorophenol red by gas diffusion flow-injection analysis. <i>Laboratory Robotics and Automation</i> , <b>1999</b> , 11, 157-161		5
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