

# Guiying Li

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5639185/guiying-li-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

294  
papers

10,941  
citations

56  
h-index

89  
g-index

309  
ext. papers

13,622  
ext. citations

10  
avg, IF

6.88  
L-index

#	Paper	IF	Citations
294	Kinetics and mechanism of advanced oxidation processes (AOPs) in degradation of ciprofloxacin in water. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 94, 288-294	21.8	369
293	Enhanced visible-light-driven photocatalytic inactivation of Escherichia coli using g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , <b>2015</b> , 86, 17-24	12.5	261
292	Earth-abundant Ni <sub>2</sub> P/g-C <sub>3</sub> N <sub>4</sub> lamellar nanohybrids for enhanced photocatalytic hydrogen evolution and bacterial inactivation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 570-580	21.8	228
291	Visible-light-driven photocatalytic inactivation of E. coli K-12 by bismuth vanadate nanotubes: bactericidal performance and mechanism. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4599-606	10.3	222
290	Photocatalytic nanomaterials for solar-driven bacterial inactivation: recent progress and challenges. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 782-799	7.1	185
289	Enhanced photocatalytic inactivation of Escherichia coli by a novel Z-scheme g-C <sub>3</sub> N <sub>4</sub> /m-Bi <sub>2</sub> O <sub>4</sub> hybrid photocatalyst under visible light: The role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 214, 23-33	21.8	158
288	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. <i>Water Research</i> , <b>2018</b> , 137, 130-143	12.5	158
287	Boron doped BiOBr nanosheets with enhanced photocatalytic inactivation of Escherichia coli. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 192, 35-45	21.8	156
286	Comparative study of visible-light-driven photocatalytic mechanisms of dye decolorization and bacterial disinfection by Bi-codoped TiO <sub>2</sub> microspheres: The role of different reactive species. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 108-109, 108-116	21.8	156
285	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO <sub>2</sub> : a case of beta-blockers. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 179, 834-9	12.8	153
284	Metal-organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1006-1025	7.1	152
283	Photocatalytic hydrogen evolution and bacterial inactivation utilizing sonochemical-synthesized g-C <sub>3</sub> N <sub>4</sub> /red phosphorus hybrid nanosheets as a wide-spectral-responsive photocatalyst: The role of type I band alignment. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 126-135	21.8	147
282	Photocatalytic degradation kinetics and mechanism of environmental pharmaceuticals in aqueous suspension of TiO <sub>2</sub> : A case of sulfa drugs. <i>Catalysis Today</i> , <b>2010</b> , 153, 200-207	5.3	145
281	CdIn <sub>2</sub> S <sub>4</sub> microsphere as an efficient visible-light-driven photocatalyst for bacterial inactivation: Synthesis, characterizations and photocatalytic inactivation mechanisms. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 129, 482-490	21.8	141
280	Mechanistic considerations for the advanced oxidation treatment of fluoroquinolone pharmaceutical compounds using TiO <sub>2</sub> heterogeneous catalysis. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 2569-75	2.8	140
279	Visible-light-driven BiOBr nanosheets for highly facet-dependent photocatalytic inactivation of Escherichia coli. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15148-15155	13	134
278	Advanced oxidation kinetics and mechanism of preservative propylparaben degradation in aqueous suspension of TiO <sub>2</sub> and risk assessment of its degradation products. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2704-12	10.3	131

277	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> , <b>2014</b> , 158-159, 301-307	21.8	129
276	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
275	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 &amp; Interfaces</i> , <b>2013</b> , 5, 6959-67	9.5	125
274	Mechanism, kinetics and toxicity assessment of OH-initiated transformation of triclosan in aquatic environments. <i>Water Research</i> , <b>2014</b> , 49, 360-70	12.5	123
273	Systematic approach to in-depth understanding of photoelectrocatalytic bacterial inactivation mechanisms by tracking the decomposed building blocks. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9412-9	10.3	122
272	Kinetics and mechanism of $\text{HO}^\bullet$ 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
271	Photocatalytic degradation kinetics and mechanism of antiviral drug-lamivudine in $\text{TiO}_2$ dispersion. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 197, 229-36	12.8	120
270	Can environmental pharmaceuticals be photocatalytically degraded and completely mineralized in water using g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> under visible light irradiation? Implications of persistent toxic intermediates. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 726-732	21.8	118
269	Synthesis of carbon nanotube-anatase TiO <sub>2</sub> sub-micrometer-sized sphere composite photocatalyst for synergistic degradation of gaseous styrene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 5988-96	9.5	111
268	Pollution characteristics and health risk assessment of volatile organic compounds emitted from different plastic solid waste recycling workshops. <i>Environment International</i> , <b>2015</b> , 77, 85-94	12.9	109
267	Activation of persulfates by natural magnetic pyrrhotite for water disinfection: Efficiency, mechanisms, and stability. <i>Water Research</i> , <b>2017</b> , 112, 236-247	12.5	108
266	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
265	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> , <b>2016</b> , 99, 149-161	12.5	102
264	Pollution profiles and health risk assessment of VOCs emitted during e-waste dismantling processes associated with different dismantling methods. <i>Environment International</i> , <b>2014</b> , 73, 186-94	12.9	100
263	One-step process for debromination and aerobic mineralization of tetrabromobisphenol-A by a novel Ochrobactrum sp. T isolated from an e-waste recycling site. <i>Bioresource Technology</i> , <b>2011</b> , 102, 9148-54	11	95
262	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> , <b>2006</b> , 138, 392-400	12.8	95
261	A recyclable mineral catalyst for visible-light-driven photocatalytic inactivation of bacteria: natural magnetic sphalerite. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11166-73	10.3	93
260	Optimization synthesis of carbon nanotubes-anatase TiO <sub>2</sub> composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 123-124, 69-77	21.8	88

259	Cross-linked ZnIn <sub>2</sub> S <sub>4</sub> /rGO composite photocatalyst for sunlight-driven photocatalytic degradation of 4-nitrophenol. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 168-169, 266-273	21.8	84
258	Visible-light-enhanced photothermocatalytic activity of ABO <sub>3</sub> -type perovskites for the decontamination of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 146-154	21.8	79
257	Preparation and characterization of highly active mesoporous TiO <sub>2</sub> photocatalysts by hydrothermal synthesis under weak acid conditions. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 124, 197-203	5.3	79
256	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> , <b>2016</b> , 91, 77-85	12.5	78
255	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
254	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
253	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> , <b>2012</b> , 114, 224-30	11	76
252	Adsorption and degradation of model volatile organic compounds by a combined titania-montmorillonite-silica photocatalyst. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 190, 416-23	12.8	76
251	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO <sub>2</sub> -assisted synthesized mesoporous carbon confined mixed-phase TiO <sub>2</sub> nanocomposites derived from MOFs. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 337-346	21.8	74
250	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 4774-4784	10.3	73
249	Catalyst-free activation of persulfate by visible light for water disinfection: Efficiency and mechanisms. <i>Water Research</i> , <b>2019</b> , 157, 106-118	12.5	72
248	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
247	Antibiotic-resistance gene transfer in antibiotic-resistance bacteria under different light irradiation: Implications from oxidative stress and gene expression. <i>Water Research</i> , <b>2019</b> , 149, 282-291	12.5	65
246	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
245	Preparation and characterization of hydrophobic TiO <sub>2</sub> 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
244	Enhanced photocatalytic mechanism of Ag <sub>3</sub> PO <sub>4</sub> nano-sheets using MS <sub>2</sub> (M = Mo, W)/rGO hybrids as co-catalysts for 4-nitrophenol degradation in water. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 11-18	21.8	59
243	In situ photoelectrocatalytic generation of bactericide for instant inactivation and rapid decomposition of Gram-negative bacteria. <i>Journal of Catalysis</i> , <b>2011</b> , 277, 88-94	7.3	59
242	Synergetic effect in degradation of formic acid using a new photoelectrochemical reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2002</b> , 152, 155-165	4.7	59

241	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> , <b>2013</b> , 250-251, 147-54	12.8	58
240	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO <sub>2</sub> system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117912	21.8	56
239	A portable miniature UV-LED-based photoelectrochemical system for determination of chemical oxygen demand in wastewater. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 141, 634-640	8.5	56
238	Enhancing tetrabromobisphenol A biodegradation in river sediment microcosms and understanding the corresponding microbial community. <i>Environmental Pollution</i> , <b>2016</b> , 208, 796-802	9.3	56
237	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
236	Adsorption mechanisms of different volatile organic compounds onto pristine C <sub>2</sub> N and Al-doped C <sub>2</sub> N monolayer: A DFT investigation. <i>Applied Surface Science</i> , <b>2018</b> , 450, 484-491	6.7	55
235	Computational consideration on advanced oxidation degradation of phenolic preservative, methylparaben, in water: mechanisms, kinetics, and toxicity assessments. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 278, 417-25	12.8	55
234	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
233	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> , <b>2011</b> , 159, 3529-35	9.3	53
232	Natural magnetic pyrrhotite as a high-efficient persulfate activator for micropollutants degradation: Radicals identification and toxicity evaluation. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 340, 435-444	12.8	52
231	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> , <b>2018</b> , 522, 174-182	9.3	50
230	Visible-light-driven photocatalytic bacterial inactivation and the mechanism of zinc oxysulfide under LED light irradiation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1052-1059	13	50
229	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> , <b>2017</b> , 125, 219-226	12.5	50
228	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> , <b>2016</b> , 302, 395-403	12.8	49
227	Comparative study on the photoelectrocatalytic inactivation of Escherichia coli K-12 and its mutant Escherichia coli BW25113 using TiO <sub>2</sub> nanotubes as a photoanode. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 562-570	21.8	49
226	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
225	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
224	Synthesis and characterization of novel magnetic Fe <sub>3</sub> O <sub>4</sub> /polyurethane foam composite applied to the carrier of immobilized microorganisms for wastewater treatment. <i>Research on Chemical Intermediates</i> , <b>2010</b> , 36, 277-288	2.8	48

223	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> , <b>2016</b> , 219, 596-603	9.3	44
222	The synergic degradation mechanism and photothermocatalytic mineralization of typical VOCs over PtCu/CeO <sub>2</sub> ordered porous catalysts under simulated solar irradiation. <i>Journal of Catalysis</i> , <b>2019</b> , 370, 88-96	7.3	44
221	Synthesis and characterization of TiO <sub>2</sub> nanotube photoanode and its application in photoelectrocatalytic degradation of model environmental pharmaceuticals. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2013</b> , 88, 1488-1497	3.5	43
220	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> , <b>2010</b> , 183, 372-80	12.8	43
219	Comparing pollution patterns and human exposure to atmospheric PBDEs and PCBs emitted from different e-waste dismantling processes. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 369, 142-149	12.8	43
218	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
217	Influence of photoinduced Bi-related self-doping on the photocatalytic activity of BiOBr nanosheets. <i>Applied Surface Science</i> , <b>2017</b> , 391, 516-524	6.7	41
216	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> , <b>2018</b> , 640-641, 798-806	10.2	41
215	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
214	Mechanistic study and mutagenicity assessment of intermediates in photocatalytic degradation of gaseous toluene. <i>Chemosphere</i> , <b>2010</b> , 78, 313-8	8.4	38
213	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
212	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> , <b>2018</b> , 621, 1533-1541	10.2	37
211	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> , <b>2016</b> , 88, 135-143	12.5	37
210	Anatase TiO <sub>2</sub> 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
209	Treatment of organic waste gas in a paint plant by combined technique of biotrickling filtration with photocatalytic oxidation. <i>Chemical Engineering Journal</i> , <b>2012</b> , 200-202, 645-653	14.7	37
208	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> , <b>2009</b> , 167, 275-81	12.8	37
207	Biodegradation of ethanethiol in aqueous medium by a new Lysinibacillus sphaericus strain RG-1 isolated from activated sludge. <i>Biodegradation</i> , <b>2010</b> , 21, 1057-66	4.1	36
206	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

205	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
204	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
203	Photocatalytic degradation and detoxification of o-chloroaniline in the gas phase: Mechanistic consideration and mutagenicity assessment of its decomposed gaseous intermediate mixture. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 102, 140-146	21.8	35
202	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
201	Adsorption Mechanisms of Typical Carbonyl-Containing Volatile Organic Compounds on Anatase TiO <sub>2</sub> (001) Surface: A DFT Investigation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13717-13722	3.8	35
200	Genetic studies of the role of fatty acid and coenzyme A in photocatalytic inactivation of Escherichia coli. <i>Water Research</i> , <b>2012</b> , 46, 3951-7	12.5	34
199	Synthesis and characterization of novel SiO <sub>2</sub> and TiO <sub>2</sub> co-pillared montmorillonite composite for adsorption and photocatalytic degradation of hydrophobic organic pollutants in water. <i>Catalysis Today</i> , <b>2011</b> , 164, 364-369	5.3	34
198	New theoretical insight into indirect photochemical transformation of fragrance nitro-musks: Mechanisms, eco-toxicity and health effects. <i>Environment International</i> , <b>2019</b> , 129, 68-75	12.9	33
197	Enhanced simultaneous PEC eradication of bacteria and antibiotics by facilely fabricated high-activity {001} facets TiO <sub>2</sub> mounted onto TiO <sub>2</sub> nanotubular photoanode. <i>Water Research</i> , <b>2016</b> , 101, 597-605	12.5	33
196	Synthesis of TiO <sub>2</sub> hollow sphere multimer photocatalyst by etching titanium plate and its application to the photocatalytic decomposition of gaseous styrene. <i>Chemical Engineering Journal</i> , <b>2013</b> , 228, 834-842	14.7	33
195	Purification of waste gas containing high concentration trimethylamine in biotrickling filter inoculated with B350 mixed microorganisms. <i>Bioresource Technology</i> , <b>2011</b> , 102, 6757-60	11	33
194	Preparation, characterisation and sensing application of inkjet-printed nanostructured TiO <sub>2</sub> photoanode. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 622-628	8.5	33
193	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
192	OH-Initiated Oxidation of Acetylacetone: Implications for Ozone and Secondary Organic Aerosol Formation. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 11169-11177	10.3	33
191	Fabrication of Au/TiO <sub>2</sub> nanowires@carbon fiber paper ternary composite for visible-light photocatalytic degradation of gaseous styrene. <i>Catalysis Today</i> , <b>2017</b> , 281, 621-629	5.3	32
190	N-type Cu <sub>2</sub> O Film for Photocatalytic and Photoelectrocatalytic Processes: Its stability and Inactivation of E. coli. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 583-593	6.7	32
189	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
188	Dual Roles of Capsular Extracellular Polymeric Substances in Photocatalytic Inactivation of Escherichia coli: Comparison of E. coli BW25113 and Isogenic Mutants. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 5174-83	4.8	32

187	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
186	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
185	Halogenated and organophosphorous flame retardants in surface soils from an e-waste dismantling park and its surrounding area: Distributions, sources, and human health risks. <i>Environment International</i> , <b>2020</b> , 139, 105741	12.9	31
184	Comparative studies of photocatalytic and photoelectrocatalytic inactivation of E. coli in presence of halides. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 140-141, 225-232	21.8	31
183	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
182	Interaction between bacterial cell membranes and nano-TiO revealed by two-dimensional FTIR correlation spectroscopy using bacterial ghost as a model cell envelope. <i>Water Research</i> , <b>2017</b> , 118, 104-113	12.5	30
181	Co-treatment of single, binary and ternary mixture gas of ethanethiol, dimethyl disulfide and thioanisole in a biotrickling filter seeded with <i>Lysinibacillus sphaericus</i> RG-1. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 1050-7	12.8	30
180	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
179	Comparative elimination of dimethyl disulfide by maifanite and ceramic-packed biotrickling filters and their response to microbial community. <i>Bioresource Technology</i> , <b>2016</b> , 202, 76-83	11	29
178	Biodegradation kinetics and mechanism of 2,4,6-tribromophenol by <i>Bacillus</i> sp. GZT: a phenomenon of xenobiotic methylation during debromination. <i>Bioresource Technology</i> , <b>2012</b> , 110, 153-9	11	29
177	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
176	Using an integrated decontamination technique to remove VOCs and attenuate health risks from an e-waste dismantling workshop. <i>Chemical Engineering Journal</i> , <b>2017</b> , 318, 57-63	14.7	28
175	Differences in photoelectrocatalytic inactivation processes between E. coli and its isogenic single gene knockoff mutants: Destruction of membrane framework or associated proteins?. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 188, 360-366	21.8	28
174	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
173	Comparative study of visible-light-driven photocatalytic inactivation of two different wastewater bacteria by natural sphalerite. <i>Chemical Engineering Journal</i> , <b>2013</b> , 234, 43-48	14.7	28
172	Role of in situ resultant H <sub>2</sub> O <sub>2</sub> in the visible-light-driven photocatalytic inactivation of E. coli using natural sphalerite: a genetic study. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 3104-11	3.4	28
171	Assessment of typical pollutants in waterborne by combining active biomonitoring and integrated biomarkers response. <i>Chemosphere</i> , <b>2011</b> , 84, 1422-31	8.4	28
170	Chlorinated paraffins in the indoor and outdoor atmospheric particles from the Pearl River Delta: Characteristics, sources, and human exposure risks. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 1041-1049	10.2	28



169	Density functional theory investigation of the enhanced adsorption mechanism and potential catalytic activity for formaldehyde degradation on Al-decorated C2N monolayer. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 664-672	11.3	27
168	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
167	Bioaccumulation and ecotoxicity increase during indirect photochemical transformation of polycyclic musk tonalide: A modeling study. <i>Water Research</i> , <b>2016</b> , 105, 47-55	12.5	27
166	Effect of synthesis conditions on photocatalytic activities of nanoparticulate TiO2 thin films. <i>Separation and Purification Technology</i> , <b>2009</b> , 68, 83-89	8.3	27
165	Mutagenicity assessment of produced water during photoelectrocatalytic degradation. <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 416-23	3.8	27
164	Seasonal profiles of atmospheric PAHs in an e-waste dismantling area and their associated health risk considering bioaccessible PAHs in the human lung. <i>Science of the Total Environment</i> , <b>2019</b> , 683, 371-379	10.2	26
163	Distribution, possible sources, and health risk assessment of SVOC pollution in small streams in Pearl River Delta, China. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 10083-95	5.1	26
162	Synthesis and characterization of N-doped carbonaceous/TiO2 composite photoanodes for visible-light photoelectrocatalytic inactivation of Escherichia coli K-12. <i>Catalysis Today</i> , <b>2014</b> , 230, 67-73	5.3	25
161	Photocatalytic inactivation of Escherichia coli by natural sphalerite suspension: effect of spectrum, wavelength and intensity of visible light. <i>Chemosphere</i> , <b>2011</b> , 84, 1276-81	8.4	25
160	UV and visible light photoelectrocatalytic bactericidal performance of 100% {111} faceted rutile TiO2 photoanode. <i>Catalysis Today</i> , <b>2014</b> , 224, 77-82	5.3	24
159	Distribution, sources, and potential toxicological significance of PAHs in drinking water sources within the Pearl River Delta. <i>Journal of Environmental Monitoring</i> , <b>2011</b> , 13, 1457-63		24
158	Accelerated biodegradation of BPA in water-sediment microcosms with Bacillus sp. GZB and the associated bacterial community structure. <i>Chemosphere</i> , <b>2017</b> , 184, 120-126	8.4	23
157	Probing the intracellular organic matters released from the photocatalytic inactivation of bacteria using fractionation procedure and excitation-emission-matrix fluorescence. <i>Water Research</i> , <b>2017</b> , 110, 270-280	12.5	23
156	Aerobic biodegradation of odorous dimethyl disulfide in aqueous medium by isolated Bacillus cereus GIGAN2 and identification of transformation intermediates. <i>Bioresource Technology</i> , <b>2015</b> , 175, 563-8	11	23
155	Free-standing red phosphorous/silver sponge monolith as an efficient and easily recyclable macroscale photocatalyst for organic pollutant degradation under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 518, 130-139	9.3	23
154	Theoretical study of the reaction mechanism and kinetics of low-molecular-weight atmospheric aldehydes (C1-C4) with NO2. <i>Atmospheric Environment</i> , <b>2012</b> , 54, 288-295	5.3	23
153	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
152	Silver sulfide nanoparticles in aqueous environments: formation, transformation and toxicity. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1674-1687	7.1	22

151	Determination of chemical oxygen demand of nitrogenous organic compounds in wastewater using synergetic photoelectrocatalytic oxidation effect at TiO <sub>2</sub> nanostructured electrode. <i>Analytica Chimica Acta</i> , <b>2012</b> , 754, 47-53	6.6	22
150	A theoretical model on the formation mechanism and kinetics of highly toxic air pollutants from halogenated formaldehydes reacted with halogen atoms. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11277-11286	6.8	22
149	Direct growth of hierarchically structured titanate nanotube filtration membrane for removal of waterborne pathogens. <i>Journal of Membrane Science</i> , <b>2009</b> , 343, 212-218	9.6	22
148	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
147	Theoretical model on the formation possibility of secondary organic aerosol from OH initiated oxidation reaction of styrene in the presence of O <sub>2</sub> /NO. <i>Atmospheric Environment</i> , <b>2015</b> , 101, 1-9	5.3	21
146	Pollution profiles of volatile organic compounds from different urban functional areas in Guangzhou China based on GC/MS and PTR-TOF-MS: Atmospheric environmental implications. <i>Atmospheric Environment</i> , <b>2019</b> , 214, 116843	5.3	21
145	Vapor-phase hydrothermal synthesis of rutile TiO <sub>2</sub> nanostructured film with exposed pyramid-shaped (111) surface and superiorly photoelectrocatalytic performance. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 429, 53-61	9.3	21
144	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
143	Antibiotics elimination and risk reduction at two drinking water treatment plants by using different conventional treatment techniques. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 158, 154-161	7	20
142	Safety assessment of the source water within the Pearl River Delta on the aspect of organochlorine pesticides contamination. <i>Journal of Environmental Monitoring</i> , <b>2010</b> , 12, 1666-77		20
141	Insect resistance to <i>Nilaparvata lugens</i> and <i>Cnaphalocrocis medinalis</i> in transgenic indica rice and the inheritance of <i>gna+sbt1</i> transgenes. <i>Pest Management Science</i> , <b>2005</b> , 61, 390-6	4.6	20
140	Anatase TiO <sub>2</sub> nanoparticles/carbon nanotubes composite: Optimization synthesis and the relationship of photocatalytic degradation activity of acyclovir in water. <i>Applied Catalysis A: General</i> , <b>2014</b> , 485, 188-195	5.1	19
139	Experimental and theoretical insights into photochemical transformation kinetics and mechanisms of aqueous propylparaben and risk assessment of its degradation products. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 1809-16	3.8	19
138	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
137	Soft-template assisted synthesis of mesoporous CuO/Cu <sub>2</sub> O composite hollow microspheres as efficient visible-light photocatalyst. <i>Materials Letters</i> , <b>2016</b> , 182, 47-51	3.3	18
136	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
135	Preferential purification of oxygenated volatile organic compounds than monoaromatics emitted from paint spray booth and risk attenuation by the integrated decontamination technique. <i>Journal of Cleaner Production</i> , <b>2017</b> , 148, 268-275	10.3	17
134	Adenovirus inactivation by in situ photocatalytically and photoelectrocatalytically generated halogen viricides. <i>Chemical Engineering Journal</i> , <b>2014</b> , 253, 538-543	14.7	17

133	Kinetic optimization of biodegradation and debromination of 2,4,6-tribromophenol using response surface methodology. <i>International Biodeterioration and Biodegradation</i> , <b>2013</b> , 76, 18-23	4.8	17
132	Distribution profile, health risk and elimination of model atmospheric SVOCs associated with a typical municipal garbage compressing station in Guangzhou, South China. <i>Atmospheric Environment</i> , <b>2013</b> , 76, 173-180	5.3	17
131	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
130	The role and synergistic effect of the light irradiation and H <sub>2</sub> O <sub>2</sub> in photocatalytic inactivation of <i>Escherichia coli</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2015</b> , 149, 164-71	6.7	16
129	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
128	Activation of NF- $\kappa$ B pathways mediating the inflammation and pulmonary diseases associated with atmospheric methylamine exposure. <i>Environmental Pollution</i> , <b>2019</b> , 252, 1216-1224	9.3	16
127	The microbial degradation of 2,4,6-tribromophenol (TBP) in water/sediments interface: Investigating bioaugmentation using <i>Bacillus</i> sp. GZT. <i>Science of the Total Environment</i> , <b>2017</b> , 575, 573-580	10.2	16
126	Theoretical investigation on the role of mineral dust aerosol in atmospheric reaction: A case of the heterogeneous reaction of formaldehyde with NO <sub>2</sub> onto SiO <sub>2</sub> dust surface. <i>Atmospheric Environment</i> , <b>2015</b> , 103, 207-214	5.3	16
125	Efficient bio-deodorization of aniline vapor in a biotrickling filter: metabolic mineralization and bacterial community analysis. <i>Chemosphere</i> , <b>2012</b> , 87, 253-8	8.4	16
124	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
123	Application of a novel gene encoding bromophenol dehalogenase from <i>Ochrobactrum</i> sp. T in TBBPA degradation. <i>Chemosphere</i> , <b>2019</b> , 217, 507-515	8.4	16
122	Photocatalytic defluorination of perfluorooctanoic acid by surface defective BiOCl: Fast microwave solvothermal synthesis and photocatalytic mechanisms. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 84, 69-79	6.4	15
121	A coupled technique to eliminate overall nonpolar and polar volatile organic compounds from paint production industry. <i>Journal of Cleaner Production</i> , <b>2018</b> , 185, 266-274	10.3	15
120	Theoretical investigation on the adsorption configuration and HO <sub>2</sub> -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
119	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
118	Gas-phase photocatalytic degradation and detoxification of o-toluidine: Degradation mechanism and <i>Salmonella</i> mutagenicity assessment of mixed gaseous intermediates. <i>Journal of Molecular Catalysis A</i> , <b>2010</b> , 333, 128-135		15
117	Relationships between the bioavailability of polybrominated diphenyl ethers in soils measured with female C57BL/6 mice and the bioaccessibility determined using five in vitro methods. <i>Environment International</i> , <b>2019</b> , 123, 337-344	12.9	15
116	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

115	Photocatalytic and photoelectrocatalytic degradation of small biological compounds at TiO <sub>2</sub> photoanode: A case study of nucleotide bases. <i>Catalysis Today</i> , <b>2015</b> , 242, 363-371	5.3	14
114	Pollution evaluation and health risk assessment of airborne toxic metals in both indoors and outdoors of the Pearl River Delta, China. <i>Environmental Research</i> , <b>2019</b> , 179, 108793	7.9	14
113	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
112	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
111	Delineation of 3D dose-time-toxicity in human pulmonary epithelial Beas-2B cells induced by decabromodiphenyl ether (BDE209). <i>Environmental Pollution</i> , <b>2018</b> , 243, 661-669	9.3	14
110	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
109	Simultaneous nutrient removal, optimised CO <sub>2</sub> mitigation and biofuel feedstock production by <i>Chlorogonium</i> 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
108	Cutting down on the ozone and SOA formation as well as health risks of VOCs emitted from e-waste dismantlement by integration technique. <i>Journal of Environmental Management</i> , <b>2019</b> , 249, 107755-107755	7.9	13
107	Kinetic and mechanism studies of musk tonalide reacted with hydroxyl radical and the risk assessment of degradation products. <i>Catalysis Today</i> , <b>2017</b> , 281, 642-648	5.3	13
106	Improving ultraviolet light transmission in a packed-bed photoelectrocatalytic reactor for removal of oxalic acid from wastewater. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 181, 158-165	4.7	13
105	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	11.8	13
104	A critical review on human internal exposure of phthalate metabolites and the associated health risks. <i>Environmental Pollution</i> , <b>2021</b> , 279, 116941	9.3	13
103	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
102	Co-exposure and health risks of parabens, bisphenols, triclosan, phthalate metabolites and hydroxyl polycyclic aromatic hydrocarbons based on simultaneous detection in urine samples from Guangzhou, south China. <i>Environmental Pollution</i> , <b>2021</b> , 272, 115990	9.3	13
101	Purifying, cloning and characterizing a novel dehalogenase from <i>Bacillus</i> sp. GZT to enhance the biodegradation of 2,4,6-tribromophenol in water. <i>Environmental Pollution</i> , <b>2017</b> , 225, 104-111	9.3	12
100	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
99	The fabrication of CNTs/TiO <sub>2</sub> photoanodes for sensitive determination of organic compounds. <i>Nanotechnology</i> , <b>2010</b> , 21, 485503	3.4	12
98	Degradation of toluene gas at the surface of ZnO/SnO <sub>2</sub> photocatalysts in a baffled bed reactor. <i>Research on Chemical Intermediates</i> , <b>2009</b> , 35, 827-838	2.8	12

97	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
96	Simultaneous determination of polybrominated diphenyl ethers, polycyclic aromatic hydrocarbons and their hydroxylated metabolites in human hair: a potential methodology to distinguish external from internal exposure. <i>Analyst, The</i> , <b>2019</b> , 144, 7227-7235	5	12
95	Photo-induced oxidative damage to dissolved free amino acids by the photosensitizer polycyclic musk tonalide: Transformation kinetics and mechanisms. <i>Water Research</i> , <b>2017</b> , 115, 339-346	12.5	11
94	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
93	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
92	Indirect photochemical transformations of acyclovir and penciclovir in aquatic environments increase ecological risk. <i>Environmental Toxicology and Chemistry</i> , <b>2016</b> , 35, 584-92	3.8	11
91	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
90	Solar light induced transformation mechanism of allyl alcohol to monocarbonyl and dicarbonyl compounds on different TiO <sub>2</sub> : A combined experimental and theoretical investigation. <i>Chemosphere</i> , <b>2019</b> , 232, 287-295	8.4	10
89	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
88	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
87	Novel in vitro method for measuring the mass fraction of bioaccessible atmospheric polycyclic aromatic hydrocarbons using simulated human lung fluids. <i>Environmental Pollution</i> , <b>2018</b> , 242, 1633-1641	9.3	10
86	Can Silica Particles Reduce Air Pollution by Facilitating the Reactions of Aliphatic Aldehyde and NO <sub>2</sub> ?. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 11376-83	2.8	10
85	Treatment performance of volatile organic sulfide compounds by the immobilized microorganisms of B350 group in a biotrickling filter. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2011</b> , 86, 1166-1176	3.5	10
84	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
83	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
82	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
81	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
80	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

79	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
78	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
77	Spatial distributions, source apportionment and ecological risk of SVOCs in water and sediment from Xijiang River, Pearl River Delta. <i>Environmental Geochemistry and Health</i> , <b>2018</b> , 40, 1853-1865	4.7	9
76	Instant inactivation and rapid decomposition of Escherichia coli using a high efficiency TiO <sub>2</sub> nanotube array photoelectrode. <i>RSC Advances</i> , <b>2013</b> , 3, 20824	3.7	9
75	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
74	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
73	A new advance in the potential exposure to old and new 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
72	Temporal trends of "old" and "new" persistent halogenated organic pollutants in fish from the third largest freshwater lake in China during 2011-2018 and the associated health risks. <i>Environmental Pollution</i> , <b>2020</b> , 267, 115497	9.3	9
71	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
70	Purification, molecular characterization and metabolic mechanism of an aerobic tetrabromobisphenol A dehalogenase, a key enzyme of halo-respiration in Ochrobactrum sp. T. <i>Chemosphere</i> , <b>2019</b> , 237, 124461	8.4	8
69	Photocatalytic and photoelectrocatalytic degradation of small biological compounds: A case study of uridine. <i>Catalysis Today</i> , <b>2013</b> , 201, 167-174	5.3	8
68	The evolution of pollution profile and health risk assessment for three groups SVOCs pollutants along with Beijiang River, China. <i>Environmental Geochemistry and Health</i> , <b>2017</b> , 39, 1487-1499	4.7	8
67	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
66	A review on in-vitro oral bioaccessibility of organic pollutants and its application in human exposure assessment. <i>Science of the Total Environment</i> , <b>2021</b> , 752, 142001	10.2	8
65	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
64	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
63	Release of tetrabromobisphenol A (TBBPA)-derived non-extractable residues in oxic soil and the effects of the TBBPA-degrading bacterium Ochrobactrum sp. strain T. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 378, 120666	12.8	7
62	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

61	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
60	The role of catalase and H <sub>2</sub> O <sub>2</sub> in photocatalytic inactivation of Escherichia coli: Genetic and biochemical approaches. <i>Catalysis Today</i> , <b>2016</b> , 266, 205-211	5.3	7
59	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
58	A novel method developed for estimating mineralization efficiencies and its application in PC and PEC degradations of large molecule biological compounds with unknown chemical formula. <i>Water Research</i> , <b>2016</b> , 95, 150-8	12.5	6
57	The heterogeneous reaction of dimethylamine/ammonia with sulfuric acid to promote the growth of atmospheric nanoparticles. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2767-2776	7.1	6
56	Development of methodology for the determination of carbon isotope ratios using gas chromatography/combustion/isotope ratio mass spectrometry and applications in the biodegradation of phenolic brominated flame retardants and their degradation products. <i>Rapid Communications in Mass Spectrometry</i> , <b>2017</b> , 31, 5140	2.2	6
55	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
54	Genome sequence of a spore-laccase forming, BPA-degrading Bacillus sp. GZB isolated from an electronic-waste recycling site reveals insights into BPA degradation pathways. <i>Archives of Microbiology</i> , <b>2019</b> , 201, 623-638	3	6
53	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
52	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
51	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
50	The mixing state of mineral dusts with typical anthropogenic pollutants: A mechanism study. <i>Atmospheric Environment</i> , <b>2019</b> , 209, 192-200	5.3	5
49	Structural Characterization and Photocatalytic Activity of Hydrothermally Synthesized Mesoporous TiO <sub>2</sub> for 2,4,6-Tribromophenol Degradation in Water. <i>Chinese Journal of Catalysis</i> , <b>2011</b> , 32, 1349-1356	11.3	5
48	Formation mechanisms of viable but nonculturable bacteria through induction by light-based disinfection and their antibiotic resistance gene transfer risk: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 1-38	11.1	5
47	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
46	Protocatechuic acid promoted catalytic degradation of rhodamine B with Fe@Fe <sub>2</sub> O <sub>3</sub> core-shell nanowires by molecular oxygen activation mechanism. <i>Catalysis Today</i> , <b>2019</b> , 335, 144-150	5.3	5
45	A non-blue laccase of Bacillus 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
44	Boosting the photocatalytic degradation of ethyl acetate by a Z-scheme Au@TiO <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

43	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
42	Organophosphate flame retardants, tetrabromobisphenol A, and their transformation products in sediment of e-waste dismantling areas and the flame-retardant production base. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 225, 112717	7	5
41	Photocatalytic inactivation of <i>Escherichia coli</i> The roles of genes in oxidation of fatty acid degradation. <i>Catalysis Today</i> , <b>2016</b> , 266, 219-225	5.3	4
40	Biodegradation of typical BFRs 2,4,6-tribromophenol by an indigenous strain <i>Bacillus</i> sp. GZT isolated from e-waste dismantling area through functional heterologous expression. <i>Science of the Total Environment</i> , <b>2019</b> , 697, 134159	10.2	4
39	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
38	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
37	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
36	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	6.48	3
35	Draft Genome Sequence of a Tetrabromobisphenol A-Degrading Strain, <i>Ochrobactrum</i> sp. T, Isolated from an Electronic Waste Recycling Site. <i>Genome Announcements</i> , <b>2016</b> , 4,		3
34	Adsorption and desorption mechanism of aromatic VOCs onto porous carbon adsorbents for emission control and resource recovery: recent progress and challenges. <i>Environmental Science: Nano</i> ,	7.1	3
33	Atomically dispersed Pd sites on Ti-SBA-15 for efficient catalytic combustion of typical gaseous VOCs. <i>Environmental Science: Nano</i> ,	7.1	3
32	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
31	Persistence and environmental geochemistry transformation of antibiotic-resistance bacteria/genes in water at the interface of natural minerals with light irradiation. <i>Critical Reviews in Environmental Science and Technology</i> , 1-33	11.1	3
30	Photoelectrocatalytic inactivation mechanism of <i>E. coli</i> DH5 $\alpha$ (TET) and synergistic degradation of corresponding antibiotics in water.. <i>Water Research</i> , <b>2022</b> , 215, 118240	12.5	3
29	Levels and health risks of urinary phthalate metabolites and the association between phthalate exposure and unexplained recurrent spontaneous abortion: a large case-control study from China.. <i>Environmental Research</i> , <b>2022</b> , 212, 113393	7.9	3
28	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
27	Bacterial Oxidative Stress Responses and Cellular Damage Caused by Photocatalytic and Photoelectrocatalytic Inactivation. <i>Green Chemistry and Sustainable Technology</i> , <b>2017</b> , 259-272	1.1	2
26	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



25	The stress response mechanisms of biofilm formation under sub-lethal photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121200	21.8	2
24	Urinary monohydroxylated polycyclic aromatic hydrocarbons in the general population from 26 provincial capital cities in China: Levels, influencing factors, and health risks.. <i>Environment International</i> , <b>2022</b> , 160, 107074	12.9	2
23	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
22	Highly efficient removal of Cr(VI) by hexapod-like pyrite nanosheet clusters. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127504	12.8	2
21	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
20	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
19	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
18	Photocatalytic and Photoelectrocatalytic Inactivation Mechanism of Biohazards. <i>Green Chemistry and Sustainable Technology</i> , <b>2017</b> , 221-237	1.1	1
17	New advance in the application of compound-specific isotope analysis (CSIA) in identifying sources, transformation mechanisms and metabolism of brominated organic compounds. <i>Critical Reviews in Environmental Science and Technology</i> , 1-24	11.1	1
16	Formation kinetics and mechanisms of ozone and secondary organic aerosols from photochemical oxidation of different aromatic hydrocarbons: dependence on NO <sub>2</sub> and organic substituents. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 7567-7578	6.8	1
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	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

7	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
6	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
5	Photoelectrocatalytic Inactivation Mechanism of Bacteria. <i>Green Chemistry and Sustainable Technology</i> , <b>2017</b> , 239-257	1.1	
4	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	
3	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	
2	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, 401-414	6.4	
1	National-scale urinary phthalate metabolites in the general urban residents involving 26 provincial capital cities in China and the influencing factors as well as non-carcinogenic risks. <i>Science of the Total Environment</i> , <b>2022</b> , 838, 156062	10.2	