Lixia Zhao

List of Publications by Year
in descending order

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46 papers	2,254 citations	236925 25 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	3472 citing authors

#	Article	IF	Citations
1	Quantitative Analysis of Reactive Oxygen Species Photogenerated on Metal Oxide Nanoparticles and Their Bacteria Toxicity: The Role of Superoxide Radicals. Environmental Science & Technology, 2017, 51, 10137-10145.	10.0	161
2	Chemiluminescence of carbon dots under strong alkaline solutions: a novel insight into carbon dot optical properties. Nanoscale, 2013, 5, 2655.	5.6	154
3	Molecularly imprinted solid-phase extraction for the selective determination of 17Î²-estradiol in fishery samples with high performance liquid chromatography. Talanta, 2009, 78, 442-447.	5.5	151
4	Two-Dimensional Interface Engineering of a Titaniaâ€“Graphene Nanosheet Composite for Improved Photocatalytic Activity. ACS Applied Materials & Interfaces, 2013, 5, 13035-13041.	8.0	144
5	Switching Oxygen Reduction Pathway by Exfoliating Graphitic Carbon Nitride for Enhanced Photocatalytic Phenol Degradation. Journal of Physical Chemistry Letters, 2015, 6, 958-963.	4.6	141
6	Continuous generation of hydroxyl radicals for highly efficient elimination of chlorophenols and phenols catalyzed by heterogeneous Fenton-like catalysts yolk/shell Pd@Fe3O4@metal organic frameworks. Journal of Hazardous Materials, 2018, 346, 174-183.	12.4	124
7	Eco-Corona vs Protein Corona: Effects of Humic Substances on Corona Formation and Nanoplastic Particle Toxicity in Daphnia magna. Environmental Science & Technology, 2020, 54, 8001-8009.	10.0	111
8	Light-Induced Efficient Molecular Oxygen Activation on a Cu(II)-Grafted TiO₂/Graphene Photocatalyst for Phenol Degradation. ACS Applied Materials & Interfaces, 2015, 7, 1816-1823.	8.0	106
9	Size distribution of particulate polycyclic aromatic hydrocarbons in fresh combustion smoke and ambient air: A review. Journal of Environmental Sciences, 2020, 88, 370-384.	6.1	84
10	Roles of reactive oxygen species (ROS) in the photocatalytic degradation of pentachlorophenol and its main toxic intermediates by TiO2/UV. Journal of Hazardous Materials, 2019, 369, 719-726.	12.4	80
11	Enhanced photocatalytic removal of hexavalent chromium through localized electrons in polydopamine-modified TiO2 under visible irradiation. Chemical Engineering Journal, 2019, 373, 58-67.	12.7	76
12	Online Detection of Reactive Oxygen Species in Ultraviolet (UV)-Irradiated Nano-TiO₂ Suspensions by Continuous Flow Chemiluminescence. Analytical Chemistry, 2014, 86, 10535-10539.	6.5	74
13	UV Irradiation Induced Transformation of TiO₂ Nanoparticles in Water: Aggregation and Photoreactivity. Environmental Science & Technology, 2014, 48, 11962-11968.	10.0	72
14	In vitro immune toxicity of polybrominated diphenyl ethers on murine peritoneal macrophages: Apoptosis and immune cell dysfunction. Chemosphere, 2015, 120, 621-630.	8.2	56
15	Superoxide-Mediated Extracellular Biosynthesis of Silver Nanoparticles by the Fungus Fusarium oxysporum. Environmental Science and Technology Letters, 2016, 3, 160-165.	8.7	55
16	Facet-Dependent Interfacial Charge Transfer in Fe(III)-Grafted TiO₂ Nanostructures Activated by Visible Light. ACS Catalysis, 2018, 8, 9399-9407.	11.2	50
17	Chemiluminescence detection of reactive oxygen species generation and potential environmental applications. TrAC - Trends in Analytical Chemistry, 2021, 136, 116197.	11.4	47
18	Development of a micro-plate magnetic chemiluminescence enzyme immunoassay (MMCLEIA) for rapid- and high-throughput analysis of 17Î²-estradiol in water samples. Journal of Biotechnology, 2005, 118, 177-186.	3.8	45

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19	Polyamine-functionalized carbon nanodots: a novel chemiluminescence probe for selective detection of iron(<scp>iii</scp>) ions. RSC Advances, 2014, 4, 45768-45771.	3.6	44
20	Dynamic Tracking of Highly Toxic Intermediates in Photocatalytic Degradation of Pentachlorophenol by Continuous Flow Chemiluminescence. Environmental Science & Technology, 2018, 52, 2870-2877.	10.0	38
21	Direct evidence for surface long-lived superoxide radicals photo-generated in TiO₂ and other metal oxide suspensions. Physical Chemistry Chemical Physics, 2018, 20, 18978-18985.	2.8	37
22	Surface Bridge Hydroxyl-Mediated Promotion of Reactive Oxygen Species in Different Particle Size TiO₂ Suspensions. Journal of Physical Chemistry Letters, 2019, 10, 3024-3028.	4.6	36
23	Donor/acceptor nanoparticle pair-based singlet oxygen channeling homogenous chemiluminescence immunoassay for quantitative determination of bisphenol A. Analytical and Bioanalytical Chemistry, 2016, 408, 8795-8804.	3.7	34
24	Dynamic monitoring and regulation of pentachlorophenol photodegradation process by chemiluminescence and TiO2/PDA. Journal of Hazardous Materials, 2020, 399, 123073.	12.4	30
25	Environmental Estrogens and Their Biological Effects through GPER Mediated Signal Pathways. Environmental Pollution, 2021, 278, 116826.	7.5	28
26	Simultaneous Determination of Ten Estrogens and their Metabolites in Waters by Improved Two-Step SPE Followed by LCâ€“MS. Chromatographia, 2009, 69, 621-628.	1.3	26
27	Rapid evaluation of oxygen vacancies-enhanced photogeneration of the superoxide radical in nano-TiO₂ suspensions. RSC Advances, 2020, 10, 29082-29089.	3.6	26
28	Sensitive fluorescent sensing for DNA assay. TrAC - Trends in Analytical Chemistry, 2010, 29, 980-1003.	11.4	24
29	Dualâ€labeled chemiluminescence enzyme immunoassay for simultaneous measurement of total prostate specific antigen (TPSA) and free prostate specific antigen (FPSA). Luminescence, 2017, 32, 1547-1553.	2.9	24
30	An efficient floating adsorption-photocatalyst to decarboxylate D-Glu and D-MeAsp of Microcystin-LR via holes direct oxidation. Chemical Engineering Journal, 2021, 413, 127543.	12.7	24
31	Micro-plate magnetic chemiluminescence immunoassay and its applications in carcinoembryonic antigen analysis. Science China Chemistry, 2010, 53, 812-819.	8.2	23
32	Exploring the origin of efficient adsorption of poly- and perfluoroalkyl substances in household point-of-use water purifiers: Deep insights from a joint experimental and computational study. Science of the Total Environment, 2022, 831, 154988.	8.0	16
33	Efficient photodegradation of PFOA using spherical BiOBr modified TiO2 via hole-remained oxidation mechanism. Chemosphere, 2022, 298, 134176.	8.2	15
34	Organo-modified layered double hydroxide-catalyzed Fenton-like ultra-weak chemiluminescence for specific sensing of vitamin B12 in egg yolks. Talanta, 2014, 129, 126-131.	5.5	14
35	A novel high throughput screening assay for binding affinities of perfluoroalkyl iodide for estrogen receptor alpha and beta isoforms. Talanta, 2017, 175, 413-420.	5.5	14
36	Exposure to perfluorooctane sulfonate reduced cell viability and insulin release capacity of Î² cells. Journal of Environmental Sciences, 2022, 115, 162-172.	6.1	12

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37	Facet-mediated interaction between humic acid and TiO₂ nanoparticles: implications for aggregation and stability kinetics in aquatic environments. Environmental Science: Nano, 2019, 6, 1754-1764.	4.3	10
38	TiO2@MOF Photocatalyst for the Synergetic Oxidation of Microcystin-LR and Reduction of Cr(VI) in Aqueous Media. Catalysts, 2021, 11, 1186.	3.5	10
39	A High-Throughput Platform for the Rapid Quantification of Phosphorylated Histone H2AX in Cell Lysates Based on Microplate Electrochemiluminescence Immunosensor Array. ACS Sensors, 2021, 6, 3724-3732.	7.8	10
40	Separation of Organomercury Species Using Nonaqueous Capillary Electrophoresis Coupled with Sample Stacking and Electrokinetic Injection Techniques. Chromatographia, 2006, 64, 281-285.	1.3	8
41	Online Quantification of O2Â·-and H2O2and Their Formation Kinetics in Ultraviolet (UV)-Irradiated Nano-TiO2Suspensions by Continuous Flow Chemiluminescence. Acta Chimica Sinica, 2015, 73, 388.	1.4	7
42	Cellular target recognition of perfluoroalkyl acids: In vitro evaluation of inhibitory effects on lysine decarboxylase. Science of the Total Environment, 2014, 496, 381-388.	8.0	5
43	A formation model of superoxide radicals photogenerated in nano-TiO₂ suspensions. RSC Advances, 2019, 9, 29429-29432.	3.6	3
44	Dechloranes exhibit binding potency and activity to thyroid hormone receptors. Journal of Environmental Sciences, 2022, 112, 16-24.	6.1	3
45	Unprecedented Two-Step Chemiluminescence of Polyamine-Functionalized Carbon Nanodots Induced by Fenton-Like System. Journal of Analysis and Testing, 2017, 1, 315-321.	5.1	2
46	The identification of the major contributors in atmospheric particulate matter to oxidative stress using surrogate particles. Environmental Science: Nano, 2021, 8, 527-542.	4.3	0