

De-Gao Wang

List of Publications by Year in descending order

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85
papers

4,227
citations

101543

36
h-index

114465

63
g-index

85
all docs

85
docs citations

85
times ranked

4376
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of nano-Co ₃ O ₄ /peroxymonosulfate system: Kinetics and mechanism study using Acid Orange 7 as a model compound. <i>Applied Catalysis B: Environmental</i> , 2008, 80, 116-121.	20.2	380
2	Review of recent advances in research on the toxicity, detection, occurrence and fate of cyclic volatile methyl siloxanes in the environment. <i>Chemosphere</i> , 2013, 93, 711-725.	8.2	203
3	Seasonal variations of sources of polycyclic aromatic hydrocarbons (PAHs) to a northeastern urban city, China. <i>Chemosphere</i> , 2010, 79, 441-447.	8.2	193
4	Visible Light Driven Photoelectrochemical Water Oxidation by Zn- and Ti-Doped Hematite Nanostructures. <i>ACS Catalysis</i> , 2014, 4, 2006-2015.	11.2	173
5	An Asia-Specific Source of Dechlorane Plus: Concentration, Isomer Profiles, and Other Related Compounds. <i>Environmental Science & Technology</i> , 2010, 44, 6608-6613.	10.0	170
6	Levels and Isomer Profiles of Dechlorane Plus in Chinese Air. <i>Environmental Science & Technology</i> , 2008, 42, 6476-6480.	10.0	163
7	Kinetics of oxidative decolorization and mineralization of Acid Orange 7 by dark and photoassisted Co ²⁺ -catalyzed peroxymonosulfate system. <i>Chemosphere</i> , 2007, 67, 802-808.	8.2	131
8	Application of positive matrix factorization to identify potential sources of PAHs in soil of Dalian, China. <i>Environmental Pollution</i> , 2009, 157, 1559-1564.	7.5	131
9	Polycyclic Aromatic Hydrocarbons in Urban Street Dust and Surface Soil: Comparisons of Concentration, Profile, and Source. <i>Archives of Environmental Contamination and Toxicology</i> , 2009, 56, 173-180.	4.1	117
10	Sources and seasonal variation of atmospheric polycyclic aromatic hydrocarbons in Dalian, China: Factor analysis with non-negative constraints combined with local source fingerprints. <i>Atmospheric Environment</i> , 2009, 43, 2747-2753.	4.1	112
11	Concentration and Bioaccumulation of Dechlorane Compounds in Coastal Environment of Northern China. <i>Environmental Science & Technology</i> , 2011, 45, 2613-2618.	10.0	110
12	Analysis of Polychlorinated Biphenyls in Concurrently Sampled Chinese Air and Surface Soil. <i>Environmental Science & Technology</i> , 2008, 42, 6514-6518.	10.0	108
13	Disappearance of polycyclic aromatic hydrocarbons sorbed on surfaces of pine [<i>Pinus thunbergii</i>] needles under irradiation of sunlight: Volatilization and photolysis. <i>Atmospheric Environment</i> , 2005, 39, 4583-4591.	4.1	98
14	Concentrations of cyclic volatile methylsiloxanes in biosolid amended soil, influent, effluent, receiving water, and sediment of wastewater treatment plants in Canada. <i>Chemosphere</i> , 2013, 93, 766-773.	8.2	96
15	Aquatic behavior and toxicity of polystyrene nanoplastic particles with different functional groups: Complex roles of pH, dissolved organic carbon and divalent cations. <i>Chemosphere</i> , 2019, 228, 195-203.	8.2	91
16	Endosulfan in China "gridded usage inventories. <i>Environmental Science and Pollution Research</i> , 2009, 16, 295-301.	5.3	86
17	Levels, distributions and profiles of polychlorinated biphenyls in surface soils of Dalian, China. <i>Chemosphere</i> , 2008, 73, 38-42.	8.2	83
18	Monitoring and Modeling Endosulfan in Chinese Surface Soil. <i>Environmental Science & Technology</i> , 2010, 44, 9279-9284.	10.0	72

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19	Estimating nicotine consumption in eight cities using sewage epidemiology based on ammonia nitrogen equivalent population. <i>Science of the Total Environment</i> , 2017, 590-591, 226-232.	8.0	69
20	Dechlorane plus in multimedia in northeastern Chinese urban region. <i>Environment International</i> , 2011, 37, 66-70.	10.0	67
21	Fate of anthropogenic cyclic volatile methylsiloxanes in a wastewater treatment plant. <i>Water Research</i> , 2015, 72, 209-217.	11.3	64
22	Aqueous 4-nitrophenol decomposition and hydrogen peroxide formation induced by contact glow discharge electrolysis. <i>Journal of Hazardous Materials</i> , 2010, 181, 1010-1015.	12.4	61
23	Ecotoxicological effects on <i>Scenedesmus obliquus</i> and <i>Danio rerio</i> Co-exposed to polystyrene nano-plastic particles and natural acidic organic polymer. <i>Environmental Toxicology and Pharmacology</i> , 2019, 67, 21-28.	4.0	55
24	Aquatic toxicity of iron-oxide-doped microplastics to <i>Chlorella pyrenoidosa</i> and <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2020, 257, 113451.	7.5	54
25	Seasonal variation of polycyclic aromatic hydrocarbons in soil and air of Dalian areas, China: an assessment of soil-air exchange. <i>Journal of Environmental Monitoring</i> , 2008, 10, 1076.	2.1	47
26	Fugacity approach to evaluate the sediment-water diffusion of polycyclic aromatic hydrocarbons. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1589.	2.1	46
27	Using wastewater-based epidemiology to estimate consumption of alcohol and nicotine in major cities of China in 2014 and 2016. <i>Environment International</i> , 2020, 136, 105492.	10.0	46
28	Assessing the trend of diabetes mellitus by analyzing metformin as a biomarker in wastewater. <i>Science of the Total Environment</i> , 2019, 688, 281-287.	8.0	45
29	Determination of cyclic volatile methylsiloxanes in water, sediment, soil, biota, and biosolid using large-volume injection-gas chromatography-mass spectrometry. <i>Chemosphere</i> , 2013, 93, 741-748.	8.2	44
30	Methamphetamine use in typical Chinese cities evaluated by wastewater-based epidemiology. <i>Environmental Science and Pollution Research</i> , 2020, 27, 8157-8165.	5.3	44
31	Uniform Doping of Titanium in Hematite Nanorods for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14072-14078.	8.0	43
32	Wastewater analysis reveals spatial pattern in consumption of anti-diabetes drug metformin in China. <i>Chemosphere</i> , 2019, 222, 688-695.	8.2	42
33	Hierarchical three-dimensional branched hematite nanorod arrays with enhanced mid-visible light absorption for high-efficiency photoelectrochemical water splitting. <i>Nanoscale</i> , 2016, 8, 12697-12701.	5.6	41
34	Characteristics of Light Emission and Radicals Formed by Contact Glow Discharge Electrolysis of an Aqueous Solution. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 359-368.	2.4	39
35	Using Monte Carlo simulation to assess variability and uncertainty of tobacco consumption in a city by sewage epidemiology. <i>BMJ Open</i> , 2016, 6, e010583.	1.9	39
36	TiO ₂ , SiO ₂ and ZrO ₂ Nanoparticles Synergistically Provoke Cellular Oxidative Damage in Freshwater Microalgae. <i>Nanomaterials</i> , 2018, 8, 95.	4.1	38

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37	Decomposition of polycyclic aromatic hydrocarbons in atmospheric aqueous droplets through sulfate anion radicals: An experimental and theoretical study. <i>Science of the Total Environment</i> , 2008, 393, 64-71.	8.0	36
38	Endosulfan in China 2000 emissions and residues. <i>Environmental Science and Pollution Research</i> , 2009, 16, 302-311.	5.3	34
39	Human health risk assessment of occupational and residential exposures to dechlorane plus in the manufacturing facility area in China and comparison with e-waste recycling site. <i>Science of the Total Environment</i> , 2013, 445-446, 329-336.	8.0	34
40	International snapshot of new psychoactive substance use: Case study of eight countries over the 2019/2020 new year period. <i>Water Research</i> , 2021, 193, 116891.	11.3	34
41	Illicit drugs and their metabolites in 36 rivers that drain into the Bohai Sea and north Yellow Sea, north China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16495-16503.	5.3	33
42	Applying a population model based on hydrochemical parameters in wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2019, 657, 466-475.	8.0	32
43	Aqueous aggregation and stability of graphene nanoplatelets, graphene oxide, and reduced graphene oxide in simulated natural environmental conditions: complex roles of surface and solution chemistry. <i>Environmental Science and Pollution Research</i> , 2018, 25, 10956-10965.	5.3	31
44	Analysis and occurrence of emerging chlorinated and brominated flame retardants in surficial sediment of the Dalian coastal area in China. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3104.	2.1	30
45	Determination of linear and cyclic volatile methylsiloxanes in blood of turtles, cormorants, and seals from Canada. <i>Science of the Total Environment</i> , 2017, 574, 1254-1260.	8.0	30
46	Evolution of Toxicity upon Hydrolysis of Fenoxaprop-ethyl. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7626-7629.	5.2	29
47	Source identification of PCDD/Fs and PCBs in pine (<i>Cedrus deodara</i>) needles: A case study in Dalian, China. <i>Atmospheric Environment</i> , 2008, 42, 4769-4777.	4.1	29
48	Trophic magnification of chlorinated flame retardants and their dechlorinated analogs in a fresh water food web. <i>Chemosphere</i> , 2015, 118, 293-300.	8.2	28
49	Tracing consumption patterns of stimulants, opioids, and ketamine in China by wastewater-based epidemiology. <i>Environmental Science and Pollution Research</i> , 2021, 28, 16754-16766.	5.3	27
50	Aqueous multivariate phototransformation kinetics of dissociated tetracycline: implications for the photochemical fate in surface waters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15726-15732.	5.3	26
51	Reduction in methamphetamine consumption trends from 2015 to 2018 detected by wastewater-based epidemiology in Dalian, China. <i>Drug and Alcohol Dependence</i> , 2019, 194, 302-309.	3.2	26
52	Spatial analysis of metformin use compared with nicotine and caffeine consumption through wastewater-based epidemiology in China. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111623.	6.0	25
53	Assessment of metformin, nicotine, caffeine, and methamphetamine use during Chinese public holidays. <i>Chemosphere</i> , 2020, 258, 127354.	8.2	23
54	Quantitative structure-property relationships for direct photolysis of polybrominated diphenyl ethers. <i>Ecotoxicology and Environmental Safety</i> , 2007, 66, 348-352.	6.0	21

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55	Experimental and theoretical studies on the photoinduced acute toxicity of a series of anthraquinone derivatives towards the water flea (<i>Daphnia magna</i>). <i>Dyes and Pigments</i> , 2009, 83, 276-280.	3.7	21
56	Distribution and Potential Human Risk of Organochlorine Pesticides in Market Mollusks from Dalian, China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 84, 278-284.	2.7	18
57	Physicochemical properties and ecotoxicological effects of yttrium oxide nanoparticles in aquatic media: Role of low molecular weight natural organic acids. <i>Environmental Pollution</i> , 2016, 212, 113-120.	7.5	18
58	Seasonal and Spatial Variations of Air Concentrations of Polycyclic Aromatic Hydrocarbons in Northeastern Chinese Urban Region. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 86, 43-49.	2.7	16
59	Using Monte Carlo simulation to assess uncertainty and variability of methamphetamine use and prevalence from wastewater analysis. <i>International Journal of Drug Policy</i> , 2016, 36, 1-7.	3.3	16
60	Cyclic volatile methyl siloxanes in the environment. <i>Chemosphere</i> , 2013, 93, 709-710.	8.2	15
61	Dissolved organic matter and aluminum oxide nanoparticles synergistically cause cellular responses in freshwater microalgae. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 651-658.	1.7	15
62	Modeling and monitoring cyclic and linear volatile methylsiloxanes in a wastewater treatment plant using constant water level sequencing batch reactors. <i>Science of the Total Environment</i> , 2015, 512-513, 472-479.	8.0	14
63	Co-exposure of Freshwater Microalgae to Tetrabromobisphenol A and Sulfadiazine: Oxidative Stress Biomarker Responses and Joint Toxicity Prediction. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 99, 438-444.	2.7	14
64	Concentration, distribution, and human health risk assessment of endosulfan from a manufacturing facility in Huai'an, China. <i>Science of the Total Environment</i> , 2014, 491-492, 163-169.	8.0	13
65	An In ₂ S ₃ @conductive carbon composite with superior electrocatalytic activity for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 87-91.	3.9	12
66	ALD-coated ultrathin Al ₂ O ₃ film on BiVO ₄ nanoparticles for efficient PEC water splitting. <i>Nuclear Science and Techniques/Hewuli</i> , 2016, 27, 1.	3.4	11
67	Wastewater analysis reveals urban, suburban, and rural spatial patterns of illicit drug use in Dalian, China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25503-25513.	5.3	11
68	Presence of the ketamine analog of 2- <i>α</i> -fluorodeschloroketamine residues in wastewater. <i>Drug Testing and Analysis</i> , 2021, 13, 1650-1657.	2.6	11
69	Comparison of tobacco use in a university town and a nearby urban area in China by intensive analysis of wastewater over one year period. <i>Water Research</i> , 2021, 206, 117733.	11.3	10
70	Assessment of correlations between sildenafil use and comorbidities and lifestyle factors using wastewater-based epidemiology. <i>Water Research</i> , 2022, 218, 118446.	11.3	10
71	Dummy molecularly imprinted polymers for class-selective extraction of amphetamine-type stimulants from alcoholic and nonalcoholic beverages. <i>Journal of Chromatography A</i> , 2022, 1663, 462759.	3.7	9
72	Combined Toxicity of TiO ₂ Nanospherical Particles and TiO ₂ Nanotubes to Two Microalgae with Different Morphology. <i>Nanomaterials</i> , 2020, 10, 2559.	4.1	8

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73	Elucidating Adsorption Mechanisms of Phthalate Esters upon Carbon Nanotubes/Graphene and Natural Organic Acid Competitive Effects in Water by <sc>DFT</sc> and <sc>MD</sc> Calculations. Bulletin of the Korean Chemical Society, 2015, 36, 1631-1636.	1.9	7
74	Estimating dynamic population served by wastewater treatment plants using location-based services data. Environmental Geochemistry and Health, 2021, 43, 4627-4635.	3.4	7
75	Selective extraction of synthetic cathinones new psychoactive substances from wastewater, urine and cocktail using dummy molecularly imprinted polymers. Journal of Pharmaceutical and Biomedical Analysis, 2022, 215, 114765.	2.8	7
76	The uridine diphosphate glucuronosyltransferases: quantitative structure-activity relationships for hydroxyl polychlorinated biphenyl substrates. Archives of Toxicology, 2005, 79, 554-560.	4.2	6
77	Dissolved organic matter heightens the toxicity of tetrabromobisphenol A to aquatic organisms. Ecotoxicology, 2022, 31, 725-734.	2.4	6
78	Simulating Molecular Interactions of Carbon Nanoparticles with a Double-Stranded DNA Fragment. Journal of Chemistry, 2015, 2015, 1-6.	1.9	5
79	Source Apportionment of Polycyclic Aromatic Hydrocarbons in Sediment by the Application of Non-Negative Factor Analysis: A Case Study of Dalian Bay. International Journal of Environmental Research and Public Health, 2018, 15, 761.	2.6	4
80	Impacts of C ₆₀ -Ionic Liquids (ILs) Interactions and IL Alkyl Chain Length on C ₆₀ Dispersion Behavior: Insights at the Molecular Level. Bulletin of the Korean Chemical Society, 2014, 35, 2679-2683.	1.9	4
81	Fate of Volatile Methylsiloxanes in Wastewater Treatment Plants. Handbook of Environmental Chemistry, 2018, , 119-130.	0.4	3
82	Dissolved Organic Matter Modulates Algal Oxidative Stress and Membrane System Responses to Binary Mixtures of Nano-Metal-Oxides (nCeO ₂ , nMgO and nFe ₃ O ₄) and Sulfadiazine. Nanomaterials, 2019, 9, 712.	4.1	3
83	Comparative Acute Toxicity and Oxidative Stress Responses in Three Aquatic Species Exposed to Stannic Oxide Nanoparticles and Stannic Chloride. Bulletin of Environmental Contamination and Toxicology, 2020, 105, 841-846.	2.7	3
84	Predicting joint toxicity of chemicals by incorporating a weighted descriptor into a mixture model: Cases for binary antibiotics and binary nanoparticles. Ecotoxicology and Environmental Safety, 2022, 236, 113472.	6.0	1
85	Soot Nanoparticles Could Partake in Nucleation of Biogenic Particles in the Atmosphere: Using Fullerene as a Model Compound. Atmosphere, 2016, 7, 45.	2.3	0