De-Gao Wang

List of Publications by Year
in descending order

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	Dummy molecularly imprinted polymers for class-selective extraction of amphetamine-type stimulants from alcoholic and nonalcoholic beverages. Journal of Chromatography A, 2022, 1663, 462759.	3.7	9
2	Dissolved organic matter heightens the toxicity of tetrabromobisphenol A to aquatic organisms. Ecotoxicology, 2022, 31, 725-734.	2.4	6
3	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
4	Assessment of correlations between sildenafil use and comorbidities and lifestyle factors using wastewater-based epidemiology. Water Research, 2022, 218, 118446.	11.3	10
5	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
6	Spatial analysis of metformin use compared with nicotine and caffeine consumption through wastewater-based epidemiology in China. Ecotoxicology and Environmental Safety, 2021, 208, 111623.	6.0	25
7	Wastewater analysis reveals urban, suburban, and rural spatial patterns of illicit drug use in Dalian, China. Environmental Science and Pollution Research, 2021, 28, 25503-25513.	5.3	11
8	International snapshot of new psychoactive substance use: Case study of eight countries over the 2019/2020 new year period. Water Research, 2021, 193, 116891.	11.3	34
9	Estimating dynamic population served by wastewater treatment plants using location-based services data. Environmental Geochemistry and Health, 2021, 43, 4627-4635.	3.4	7
10	Presence of the ketamine analog of 2â€fluorodeschloroketamine residues in wastewater. Drug Testing and Analysis, 2021, 13, 1650-1657.	2.6	11
11	Tracing consumption patterns of stimulants, opioids, and ketamine in China by wastewater-based epidemiology. Environmental Science and Pollution Research, 2021, 28, 16754-16766.	5.3	27
12	Comparison of tobacco use in a university town and a nearby urban area in China by intensive analysis of wastewater over one year period. Water Research, 2021, 206, 117733.	11.3	10
13	Aquatic toxicity of iron-oxide-doped microplastics to Chlorella pyrenoidosa and Daphnia magna. Environmental Pollution, 2020, 257, 113451.	7.5	54
14	Methamphetamine use in typical Chinese cities evaluated by wastewater-based epidemiology. Environmental Science and Pollution Research, 2020, 27, 8157-8165.	5.3	44
15	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
16	Combined Toxicity of TiO2 Nanospherical Particles and TiO2 Nanotubes to Two Microalgae with Different Morphology. Nanomaterials, 2020, 10, 2559.	4.1	8
17	Assessment of metformin, nicotine, caffeine, and methamphetamine use during Chinese public holidays. Chemosphere, 2020, 258, 127354.	8.2	23
18	Using wastewater-based epidemiology to estimate consumption of alcohol and nicotine in major cities of China in 2014 and 2016. Environment International, 2020, 136, 105492.	10.0	46

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19	Wastewater analysis reveals spatial pattern in consumption of anti-diabetes drug metformin in China. Chemosphere, 2019, 222, 688-695.	8.2	42
20	Ecotoxicological effects on Scenedesmus obliquus and Danio rerio Co-exposed to polystyrene nano-plastic particles and natural acidic organic polymer. Environmental Toxicology and Pharmacology, 2019, 67, 21-28.	4.0	55
21	Assessing the trend of diabetes mellitus by analyzing metformin as a biomarker in wastewater. Science of the Total Environment, 2019, 688, 281-287.	8.0	45
22	Dissolved Organic Matter Modulates Algal Oxidative Stress and Membrane System Responses to Binary Mixtures of Nano-Metal-Oxides (nCeO2, nMgO and nFe3O4) and Sulfadiazine. Nanomaterials, 2019, 9, 712.	4.1	3
23	Aquatic behavior and toxicity of polystyrene nanoplastic particles with different functional groups: Complex roles of pH, dissolved organic carbon and divalent cations. Chemosphere, 2019, 228, 195-203.	8.2	91
24	Reduction in methamphetamine consumption trends from 2015 to 2018 detected by wastewater-based epidemiology in Dalian, China. Drug and Alcohol Dependence, 2019, 194, 302-309.	3.2	26
25	Applying a population model based on hydrochemical parameters in wastewater-based epidemiology. Science of the Total Environment, 2019, 657, 466-475.	8.0	32
26	Dissolved organic matter and aluminum oxide nanoparticles synergistically cause cellular responses in freshwater microalgae. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 651-658.	1.7	15
27	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. Environmental Science and Pollution Research, 2018, 25, 10956-10965.	5.3	31
28	Aqueous multivariate phototransformation kinetics of dissociated tetracycline: implications for the photochemical fate in surface waters. Environmental Science and Pollution Research, 2018, 25, 15726-15732.	5.3	26
29	Fate of Volatile Methylsiloxanes in Wastewater Treatment Plants. Handbook of Environmental Chemistry, 2018, , 119-130.	0.4	3
30	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
31	TiO2, SiO2 and ZrO2 Nanoparticles Synergistically Provoke Cellular Oxidative Damage in Freshwater Microalgae. Nanomaterials, 2018, 8, 95.	4.1	38
32	Estimating nicotine consumption in eight cities using sewage epidemiology based on ammonia nitrogen equivalent population. Science of the Total Environment, 2017, 590-591, 226-232.	8.0	69
33	Co-exposure of Freshwater Microalgae to Tetrabromobisphenol A and Sulfadiazine: Oxidative Stress Biomarker Responses and Joint Toxicity Prediction. Bulletin of Environmental Contamination and Toxicology, 2017, 99, 438-444.	2.7	14
34	An In2.77S4@conductive carbon composite with superior electrocatalytic activity for dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 87-91.	3.9	12
35	Determination of linear and cyclic volatile methylsiloxanes in blood of turtles, cormorants, and seals from Canada. Science of the Total Environment, 2017, 574, 1254-1260.	8.0	30
36	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

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37	ALD-coated ultrathin Al2O3 film on BiVO4 nanoparticles for efficient PEC water splitting. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	3.4	11
38	Using Monte Carlo simulation to assess uncertainty and variability of methamphetamine use and prevalence from wastewater analysis. International Journal of Drug Policy, 2016, 36, 1-7.	3.3	16
39	Using Monte Carlo simulation to assess variability and uncertainty of tobacco consumption in a city by sewage epidemiology. BMJ Open, 2016, 6, e010583.	1.9	39
40	Illicit drugs and their metabolites in 36 rivers that drain into the Bohai Sea and north Yellow Sea, north China. Environmental Science and Pollution Research, 2016, 23, 16495-16503.	5.3	33
41	Hierarchical three-dimensional branched hematite nanorod arrays with enhanced mid-visible light absorption for high-efficiency photoelectrochemical water splitting. Nanoscale, 2016, 8, 12697-12701.	5.6	41
42	Physicochemical properties and ecotoxicological effects of yttrium oxide nanoparticles in aquatic media: Role of low molecular weight natural organic acids. Environmental Pollution, 2016, 212, 113-120.	7.5	18
43	Elucidating Adsorption Mechanisms of Phthalate Esters upon Carbon Nanotubes/Graphene and Natural Organic Acid Competitive Effects in Water by <scp>DFT</scp> and <scp>MD</scp> Calculations. Bulletin of the Korean Chemical Society, 2015, 36, 1631-1636.	1.9	7
44	Simulating Molecular Interactions of Carbon Nanoparticles with a Double-Stranded DNA Fragment. Journal of Chemistry, 2015, 2015, 1-6.	1.9	5
45	Uniform Doping of Titanium in Hematite Nanorods for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 14072-14078.	8.0	43
46	Modeling and monitoring cyclic and linear volatile methylsiloxanes in a wastewater treatment plant using constant water level sequencing batch reactors. Science of the Total Environment, 2015, 512-513, 472-479.	8.0	14
47	Fate of anthropogenic cyclic volatile methylsiloxanes in a wastewater treatment plant. Water Research, 2015, 72, 209-217.	11.3	64
48	Trophic magnification of chlorinated flame retardants and their dechlorinated analogs in a fresh water food web. Chemosphere, 2015, 118, 293-300.	8.2	28
49	Concentration, distribution, and human health risk assessment of endosulfan from a manufacturing facility in Huai'an, China. Science of the Total Environment, 2014, 491-492, 163-169.	8.0	13
50	Visible Light Driven Photoelectrochemical Water Oxidation by Zn- and Ti-Doped Hematite Nanostructures. ACS Catalysis, 2014, 4, 2006-2015.	11.2	173
51	Impacts of C₆₀-Ionic Liquids (ILs) Interactions and IL Alkyl Chain Length on C₆₀Dispersion Behavior: Insights at the Molecular Level. Bulletin of the Korean Chemical Society, 2014, 35, 2679-2683.	1.9	4
52	Concentrations of cyclic volatile methylsiloxanes in biosolid amended soil, influent, effluent, receiving water, and sediment of wastewater treatment plants in Canada. Chemosphere, 2013, 93, 766-773.	8.2	96
53	Determination of cyclic volatile methylsiloxanes in water, sediment, soil, biota, and biosolid using large-volume injectionâ€"gas chromatographyâ€"mass spectrometry. Chemosphere, 2013, 93, 741-748.	8.2	44
54	Cyclic volatile methyl siloxanes in the environment. Chemosphere, 2013, 93, 709-710.	8.2	15

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55	Review of recent advances in research on the toxicity, detection, occurrence and fate of cyclic volatile methyl siloxanes in the environment. Chemosphere, 2013, 93, 711-725.	8.2	203
56	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. Science of the Total Environment, 2013, 445-446, 329-336.	8.0	34
57	Characteristics of Light Emission and Radicals Formed by Contact Glow Discharge Electrolysis of an Aqueous Solution. Plasma Chemistry and Plasma Processing, 2012, 32, 359-368.	2.4	39
58	Analysis and occurrence of emerging chlorinated and brominated flame retardants in surficial sediment of the Dalian costal area in China. Journal of Environmental Monitoring, 2011, 13, 3104.	2.1	30
59	Fugacity approach to evaluate the sedimentâ€"water diffusion of polycyclic aromatic hydrocarbons. Journal of Environmental Monitoring, 2011, 13, 1589.	2.1	46
60	Concentration and Bioaccumulation of Dechlorane Compounds in Coastal Environment of Northern China. Environmental Science & Technology, 2011, 45, 2613-2618.	10.0	110
61	Dechlorane plus in multimedia in northeastern Chinese urban region. Environment International, 2011, 37, 66-70.	10.0	67
62	Seasonal and Spatial Variations of Air Concentrations of Polycyclic Aromatic Hydrocarbons in Northeastern Chinese Urban Region. Bulletin of Environmental Contamination and Toxicology, 2011, 86, 43-49.	2.7	16
63	Distribution and Potential Human Risk of Organochlorine Pesticides in Market Mollusks from Dalian, China. Bulletin of Environmental Contamination and Toxicology, 2010, 84, 278-284.	2.7	18
64	Aqueous 4-nitrophenol decomposition and hydrogen peroxide formation induced by contact glow discharge electrolysis. Journal of Hazardous Materials, 2010, 181, 1010-1015.	12.4	61
65	Monitoring and Modeling Endosulfan in Chinese Surface Soil. Environmental Science & Technology, 2010, 44, 9279-9284.	10.0	72
66	Seasonal variations of sources of polycyclic aromatic hydrocarbons (PAHs) to a northeastern urban city, China. Chemosphere, 2010, 79, 441-447.	8.2	193
67	An Asia-Specific Source of Dechlorane Plus: Concentration, Isomer Profiles, and Other Related Compounds. Environmental Science & Technology, 2010, 44, 6608-6613.	10.0	170
68	Sources and seasonal variation of atmospheric polycyclic aromatic hydrocarbons in Dalian, China: Factor analysis with non-negative constraints combined with local source fingerprints. Atmospheric Environment, 2009, 43, 2747-2753.	4.1	112
69	Experimental and theoretical studies on the photoinduced acute toxicity of a series of anthraquinone derivatives towards the water flea (Daphnia magna). Dyes and Pigments, 2009, 83, 276-280.	3.7	21
70	Endosulfan in China 1â€"gridded usage inventories. Environmental Science and Pollution Research, 2009, 16, 295-301.	5.3	86
71	Endosulfan in China 2â€"emissions and residues. Environmental Science and Pollution Research, 2009, 16, 302-311.	5.3	34
72	Polycyclic Aromatic Hydrocarbons in Urban Street Dust and Surface Soil: Comparisons of Concentration, Profile, and Source. Archives of Environmental Contamination and Toxicology, 2009, 56, 173-180.	4.1	117

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73	Application of positive matrix factorization to identify potential sources of PAHs in soil of Dalian, China. Environmental Pollution, 2009, 157, 1559-1564.	7.5	131
74	Performance of nano-Co3O4/peroxymonosulfate system: Kinetics and mechanism study using Acid Orange 7 as a model compound. Applied Catalysis B: Environmental, 2008, 80, 116-121.	20.2	380
75	Source identification of PCDD/Fs and PCBs in pine (Cedrus deodara) needles: A case study in Dalian, China. Atmospheric Environment, 2008, 42, 4769-4777.	4.1	29
76	Decomposition of polycyclic aromatic hydrocarbons in atmospheric aqueous droplets through sulfate anion radicals: An experimental and theoretical study. Science of the Total Environment, 2008, 393, 64-71.	8.0	36
77	Levels, distributions and profiles of polychlorinated biphenyls in surface soils of Dalian, China. Chemosphere, 2008, 73, 38-42.	8.2	83
78	Seasonal variation of polycyclic aromatic hydrocarbons in soil and air of Dalian areas, China: an assessment of soilâ€“air exchange. Journal of Environmental Monitoring, 2008, 10, 1076.	2.1	47
79	Analysis of Polychlorinated Biphenyls in Concurrently Sampled Chinese Air and Surface Soil. Environmental Science & Technology, 2008, 42, 6514-6518.	10.0	108
80	Levels and Isomer Profiles of Dechlorane Plus in Chinese Air. Environmental Science & Technology, 2008, 42, 6476-6480.	10.0	163
81	Quantitative structureâ€“property relationships for direct photolysis of polybrominated diphenyl ethers. Ecotoxicology and Environmental Safety, 2007, 66, 348-352.	6.0	21
82	Kinetics of oxidative decolorization and mineralization of Acid Orange 7 by dark and photoassisted Co2+-catalyzed peroxymonosulfate system. Chemosphere, 2007, 67, 802-808.	8.2	131
83	Evolution of Toxicity upon Hydrolysis of Fenoxaprop-<i>p</i>-ethyl. Journal of Agricultural and Food Chemistry, 2007, 55, 7626-7629.	5.2	29
84	Disappearance of polycyclic aromatic hydrocarbons sorbed on surfaces of pine [Pinua thunbergii] needles under irradiation of sunlight: Volatilization and photolysis. Atmospheric Environment, 2005, 39, 4583-4591.	4.1	98
85	The uridine diphosphate glucuronosyltransferases: quantitative structureâ€“activity relationships for hydroxyl polychlorinated biphenyl substrates. Archives of Toxicology, 2005, 79, 554-560.	4.2	6