

# Dongbin Wei

## List of Publications by Year in descending order

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43  
papers

1,084  
citations

394421

19  
h-index

414414

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43  
all docs

43  
docs citations

43  
times ranked

1406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental management of pesticidal POPs in China: Past, present and future. <i>Environment International</i> , 2007, 33, 894-902.	10.0	136
2	Genotoxicity of quinolones: Substituents contribution and transformation products QSAR evaluation using 2D and 3D models. <i>Chemosphere</i> , 2014, 95, 220-226.	8.2	81
3	Transformation of cefazolin during chlorination process: Products, mechanism and genotoxicity assessment. <i>Journal of Hazardous Materials</i> , 2013, 262, 48-54.	12.4	71
4	Research progress of disinfection and disinfection by-products in China. <i>Journal of Environmental Sciences</i> , 2019, 81, 52-67.	6.1	66
5	Transformation mechanism of benzophenone-4 in free chlorine promoted chlorination disinfection. <i>Water Research</i> , 2013, 47, 6223-6233.	11.3	52
6	Oxidative transformation of levofloxacin by $\text{H}^+\text{-MnO}_2$ : Products, pathways and toxicity assessment. <i>Chemosphere</i> , 2015, 119, 282-288.	8.2	46
7	Acute toxicity formation potential of benzophenone-type UV filters in chlorination disinfection process. <i>Journal of Environmental Sciences</i> , 2014, 26, 440-447.	6.1	40
8	Substituent contribution to the genotoxicity of benzophenone-type UV filters. <i>Ecotoxicology and Environmental Safety</i> , 2013, 95, 241-246.	6.0	39
9	Design and application of $\text{Fe}^{3+}$ probe for naked-eye colorimetric detection in fully aqueous system. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1316-1321.	7.8	38
10	Acute toxicity evaluation for quinolone antibiotics and their chlorination disinfection processes. <i>Journal of Environmental Sciences</i> , 2014, 26, 1837-1842.	6.1	36
11	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> , 2014, 21, 10083-10095.	5.3	30
12	Bioassay: A useful tool for evaluating reclaimed water safety. <i>Journal of Environmental Sciences</i> , 2020, 88, 165-176.	6.1	30
13	Formation of novel disinfection by-products chlorinated benzoquinone, phenyl benzoquinones and polycyclic aromatic hydrocarbons during chlorination treatment on UV filter 2,4-dihydroxybenzophenone in swimming pool water. <i>Journal of Hazardous Materials</i> , 2019, 367, 725-733.	12.4	25
14	The brominated flame retardant PBDE 99 promotes adipogenesis via regulating mitotic clonal expansion and $\text{PPAR}\alpha$ expression. <i>Science of the Total Environment</i> , 2019, 670, 67-77.	8.0	25
15	Enhanced hydrolysis of fermentative antibiotics in production wastewater: Hydrolysis potential prediction and engineering application. <i>Chemical Engineering Journal</i> , 2020, 391, 123626.	12.7	25
16	A toxicity-based method for evaluating safety of reclaimed water for environmental reuses. <i>Journal of Environmental Sciences</i> , 2014, 26, 1961-1969.	6.1	23
17	The potential risk assessment for different arsenic species in the aquatic environment. <i>Journal of Environmental Sciences</i> , 2015, 27, 1-8.	6.1	23
18	Oxidation of cefazolin by potassium permanganate: Transformation products and plausible pathways. <i>Chemosphere</i> , 2016, 149, 279-285.	8.2	23

#	ARTICLE	IF	CITATIONS
19	Predicted no-effect concentrations determination and ecological risk assessment for benzophenone-type UV filters in aquatic environment. <i>Environmental Pollution</i> , 2020, 256, 113460.	7.5	23
20	Product identification and the mechanisms involved in the transformation of cefazolin by birnessite ( $\gamma$ -MnO <sub>2</sub> ). <i>Chemical Engineering Journal</i> , 2017, 320, 116-123.	12.7	20
21	Predicted no-effect concentrations for mercury species and ecological risk assessment for mercury pollution in aquatic environment. <i>Journal of Environmental Sciences</i> , 2015, 28, 74-80.	6.1	19
22	Toxicity-based assessment of the treatment performance of wastewater treatment and reclamation processes. <i>Journal of Environmental Sciences</i> , 2012, 24, 969-978.	6.1	18
23	Effectively remediating spiramycin from production wastewater through hydrolyzing its functional groups using solid superacid TiO <sub>2</sub> /SO <sub>4</sub> . <i>Environmental Research</i> , 2019, 175, 393-401.	7.5	18
24	A selective N,N-dithenoyl-rhodamine based fluorescent probe for Fe <sup>3+</sup> detection in aqueous and living cells. <i>Journal of Environmental Sciences</i> , 2020, 90, 180-188.	6.1	17
25	Transformation pathways and acute toxicity variation of 4-hydroxyl benzophenone in chlorination disinfection process. <i>Chemosphere</i> , 2016, 154, 491-498.	8.2	16
26	Formation pathways of brominated products from benzophenone-4 chlorination in the presence of bromide ions. <i>Journal of Environmental Sciences</i> , 2014, 26, 2387-2396.	6.1	15
27	Bioassay- and QSAR-based screening of toxic transformation products and their formation under chlorination treatment on levofloxacin. <i>Journal of Hazardous Materials</i> , 2021, 414, 125495.	12.4	14
28	A biological safety evaluation on reclaimed water reused as scenic water using a bioassay battery. <i>Journal of Environmental Sciences</i> , 2011, 23, 1611-1618.	6.1	12
29	Application of biological safety index in two Japanese watersheds using a bioassay battery. <i>Chemosphere</i> , 2008, 72, 1303-1308.	8.2	11
30	Genotoxicity of quinolone antibiotics in chlorination disinfection treatment: formation and QSAR simulation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 20637-20645.	5.3	11
31	Rapid thermal-acid hydrolysis of spiramycin by silicotungstic acid under microwave irradiation. <i>Environmental Pollution</i> , 2019, 249, 36-44.	7.5	10
32	A synthetical methodology for identifying priority pollutants in reclaimed water based on meta-analysis. <i>Journal of Environmental Sciences</i> , 2022, 112, 106-114.	6.1	9
33	Acute toxicity variation of hydroxyl benzophenone UV filters during photoinduced "chlorination disinfection processes. <i>Journal of Environmental Sciences</i> , 2017, 54, 48-55.	6.1	8
34	A novel risk score-based prioritization method for pollutants in reclaimed water. <i>Science of the Total Environment</i> , 2021, 795, 148833.	8.0	8
35	An alternative total synthesis of solamargine. <i>Science China Chemistry</i> , 2012, 55, 1247-1251.	8.2	7
36	New rhodamine derivative as OFF-ON fluorescent chemosensor for detection of Cu <sup>2+</sup> . <i>Science China Chemistry</i> , 2011, 54, 1635-1639.	8.2	6

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37	The chlorination transformation characteristics of benzophenone-4 in the presence of iodide ions. <i>Journal of Environmental Sciences</i> , 2017, 58, 93-101.	6.1	6
38	Characterization of UV and chlorine contributions to transformation of 2,3,4-trihydroxybenzophenone under combined UV-chlorine treatment. <i>Chemosphere</i> , 2021, 263, 128310.	8.2	6
39	Free radical-enhanced formation of toxic byproduct benzoyl benzoquinone during the combined UV-chlorine treatment on BP-1. <i>Chemical Engineering Journal</i> , 2022, 433, 134344.	12.7	6
40	Highly sensitive and selective chemosensor for Cu <sup>2+</sup> detection based on a N-propargyl rhodamine 6G-hydrazide derivative. <i>Science China Chemistry</i> , 2012, 55, 626-631.	8.2	5
41	Free available chlorine initiated Baeyer-Villiger oxidation: A key mechanism for chloroform formation during aqueous chlorination of benzophenone UV filters. <i>Environmental Pollution</i> , 2021, 268, 115737.	7.5	5
42	Radical-promoted formation of dibenzofuran during combined UV-chlorine treatment on mono-substituted diphenyl ether. <i>Chemical Engineering Journal</i> , 2021, 420, 127620.	12.7	3
43	Magnitude Filter Combined with Mass Filter: A Reliable Strategy to Improve the Reproducibility of ESI-FT-ICR-MS Analysis on the Fingerprint of Dissolved Organic Matter. <i>Analytical Chemistry</i> , 2022, 94, 10643-10650.	6.5	2