Wei Chen

List of Publications by Year
in descending order

102 papers	7,424 citations	81434 41 h-index	62345 84 g-index
103 all docs	103 docs citations	103 times ranked	9983 citing authors

#	Article	IF	Citations
1	Sorption and Mobility of Charged Organic Compounds: How to Confront and Overcome Limitations in Their Assessment. Environmental Science & Technology, 2022, 56, 4702-4710.	4.6	41
2	Current Methods and Prospects for Analysis and Characterization of Nanomaterials in the Environment. Environmental Science & Technology, 2022, 56, 7426-7447.	4.6	19
3	Natural organic matter facilitates formation and microbial methylation of mercury selenide nanoparticles. Environmental Science: Nano, 2021, 8, 67-75.	2.2	7
4	Leaching of organic carbon enhances mobility of biochar nanoparticles in saturated porous media. Environmental Science: Nano, 2021, 8, 2584-2594.	2.2	4
5	Binding of Benzo[<i>a</i>]pyrene Alters the Bioreactivity of Fine Biochar Particles toward Macrophages Leading to Deregulated Macrophagic Defense and Autophagy. ACS Nano, 2021, 15, 9717-9731.	7.3	29
6	Sulfide induces physical damages and chemical transformation of microplastics via radical oxidation and sulfide addition. Water Research, 2021, 197, 117100.	5.3	40
7	Biochar Fine Particles Enhance Uptake of Benzo(a)pyrene to Macrophages and Epithelial Cells via Different Mechanisms. Environmental Science and Technology Letters, 2021, 8, 218-223.	3.9	15
8	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.	2.2	32
9	Sulfide and ferrous iron preferentially target specific surface O-functional groups of graphene oxide: implications for accumulation of contaminants. Environmental Science: Nano, 2020, 7, 462-471.	2.2	7
10	Nanostructured manganese oxides exhibit facet-dependent oxidation capabilities. Environmental Science: Nano, 2020, 7, 3840-3848.	2.2	7
11	Key Physicochemical Properties Dictating Gastrointestinal Bioaccessibility of Microplastics-Associated Organic Xenobiotics: Insights from a Deep Learning Approach. Environmental Science & Technology, 2020, 54, 12051-12062.	4.6	38
12	Targeting specific cell organelles with different-faceted nanocrystals that are selectively recognized by organelle-targeting peptides. Chemical Communications, 2020, 56, 7613-7616.	2.2	6
13	Facet-Dependent Adsorption and Fractionation of Natural Organic Matter on Crystalline Metal Oxide Nanoparticles. Environmental Science & Technology, 2020, 54, 8622-8631.	4.6	54
14	Enhanced Hydrolysis of <i>p</i>-Nitrophenyl Phosphate by Iron (Hydr)oxide Nanoparticles: Roles of Exposed Facets. Environmental Science & Technology, 2020, 54, 8658-8667.	4.6	42
15	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater â€“ a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	2.2	74
16	Engineering of CoSe₂ Nanosheets via Vacancy Manipulation for Efficient Cancer Therapy. ACS Applied Bio Materials, 2020, 3, 7800-7809.	2.3	4
17	Effects of ozone and produced hydroxyl radicals on the transformation of graphene oxide in aqueous media. Environmental Science: Nano, 2019, 6, 2484-2494.	2.2	27
18	Photolysis of graphene oxide in the presence of nitrate: implications for graphene oxide integrity in water and wastewater treatment. Environmental Science: Nano, 2019, 6, 136-145.	2.2	11

#	ARTICLE	IF	CITATIONS
19	Aging Significantly Affects Mobility and Contaminant-Mobilizing Ability of Nanoplastics in Saturated Loamy Sand. Environmental Science & Technology, 2019, 53, 5805-5815.	4.6	258
20	Aggregation morphology is a key factor determining protein adsorption on graphene oxide and reduced graphene oxide nanomaterials. Environmental Science: Nano, 2019, 6, 1303-1309.	2.2	38
21	<i>In situ</i>remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. Environmental Science: Nano, 2019, 6, 1283-1302.	2.2	65
22	Facet-dependent evolution of surface defects in anatase TiO₂ by thermal treatment: implications for environmental applications of photocatalysis. Environmental Science: Nano, 2019, 6, 1740-1753.	2.2	32
23	Sulfidation of Ag and ZnO Nanomaterials Significantly Affects Protein Corona Composition: Implications for Human Exposure to Environmentally Aged Nanomaterials. Environmental Science & Technology, 2019, 53, 14296-14307.	4.6	20
24	Release of polycyclic aromatic hydrocarbons from biochar fine particles in simulated lung fluids: Implications for bioavailability and risks of airborne aromatics. Science of the Total Environment, 2019, 655, 1159-1168.	3.9	46
25	Transport of graphene oxide in saturated quartz sand containing iron oxides. Science of the Total Environment, 2019, 657, 1450-1459.	3.9	27
26	Polystyrene Nanoplastics-Enhanced Contaminant Transport: Role of Irreversible Adsorption in Glassy Polymeric Domain. Environmental Science & Technology, 2018, 52, 2677-2685.	4.6	185
27	Improving Photocatalytic Water Treatment through Nanocrystal Engineering: Mesoporous Nanosheet-Assembled 3D BiOCl Hierarchical Nanostructures That Induce Unprecedented Large Vacancies. Environmental Science & Technology, 2018, 52, 6872-6880.	4.6	63
28	Nano-TiO₂-Catalyzed Dehydrochlorination of 1,1,2,2-Tetrachloroethane: Roles of Crystalline Phase and Exposed Facets. Environmental Science & Technology, 2018, 52, 4031-4039.	4.6	14
29	Facet-dependent generation of superoxide radical anions by ZnO nanomaterials under simulated solar light. Environmental Science: Nano, 2018, 5, 2864-2875.	2.2	22
30	Environmental transformation of natural and engineered carbon nanoparticles and implications for the fate of organic contaminants. Environmental Science: Nano, 2018, 5, 2500-2518.	2.2	54
31	Self-Damaging Aerobic Reduction of Graphene Oxide by <i>Escherichia coli</i>: Role of GO-Mediated Extracellular Superoxide Formation. Environmental Science & Technology, 2018, 52, 12783-12791.	4.6	35
32	Influence of light wavelength on the photoactivity, physicochemical transformation, and fate of graphene oxide in aqueous media. Environmental Science: Nano, 2018, 5, 2590-2603.	2.2	34
33	Reduction of graphene oxide alters its cyto-compatibility towards primary and immortalized macrophages. Nanoscale, 2018, 10, 14637-14650.	2.8	23
34	Concentration Dependent Effects of Bovine Serum Albumin on Graphene Oxide Colloidal Stability in Aquatic Environment. Environmental Science & Technology, 2018, 52, 7212-7219.	4.6	67
35	Enhanced adsorption of aromatic chemicals on boron and nitrogen co-doped single-walled carbon nanotubes. Environmental Science: Nano, 2017, 4, 558-564.	2.2	31
36	Reply to the â€˜Comment on â€œColloidal stability of reduced graphene oxide materials prepared using different reducing agentsâ€â€™ by M. Moazzami Gudarzi, <i>Environ. Sci.: Nano</i>, 2017, 4, DOI: 10.1039/C6EN00424E. Environmental Science: Nano, 2017, 4, 2421-2422.	2.2	0

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37	Cation-Inhibited Transport of Graphene Oxide Nanomaterials in Saturated Porous Media: The Hofmeister Effects. Environmental Science & Technology, 2017, 51, 828-837.	4.6	77
38	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. Environmental Science & Technology, 2017, 51, 10274-10281.	4.6	129
39	Mechanistic Insights from Discrete Molecular Dynamics Simulations of Pesticideâ€“Nanoparticle Interactions. Environmental Science & Technology, 2017, 51, 8396-8404.	4.6	22
40	Effects of clay minerals on transport of graphene oxide in saturated porous media. Environmental Toxicology and Chemistry, 2017, 36, 655-660.	2.2	38
41	The oxidation capacity of Mn 3 O 4 nanoparticles is significantly enhanced by anchoring them onto reduced graphene oxide to facilitate regeneration of surface-associated Mn(III). Water Research, 2016, 103, 101-108.	5.3	21
42	Environmental reduction of carbon nanomaterials affects their capabilities to accumulate aromatic compounds. NanoImpact, 2016, 1, 21-28.	2.4	6
43	Chloramination of graphene oxide significantly affects its transport properties in saturated porous media. NanoImpact, 2016, 3-4, 90-95.	2.4	10
44	Transformation of graphene oxide by chlorination and chloramination: Implications for environmental transport and fate. Water Research, 2016, 103, 416-423.	5.3	59
45	Colloidal stability of reduced graphene oxide materials prepared using different reducing agents. Environmental Science: Nano, 2016, 3, 1062-1071.	2.2	56
46	Enhanced dehydrochlorination of 1,1,2,2-tetrachloroethane by graphene-based nanomaterials. Environmental Pollution, 2016, 214, 341-348.	3.7	17
47	Enhanced removal of sulfonamide antibiotics by KOH-activated anthracite coal: Batch and fixed-bed studies. Environmental Pollution, 2016, 211, 425-434.	3.7	55
48	Improved <i>In Vitro</i> and <i>In Vivo</i> Biocompatibility of Graphene Oxide through Surface Modification: Poly(Acrylic Acid)-Functionalization is Superior to PEGylation. ACS Nano, 2016, 10, 3267-3281.	7.3	324
49	Facet Energy and Reactivity versus Cytotoxicity: The Surprising Behavior of CdS Nanorods. Nano Letters, 2016, 16, 688-694.	4.5	30
50	Transformation of graphene oxide by ferrous iron: Environmental implications. Environmental Toxicology and Chemistry, 2015, 34, 1975-1982.	2.2	39
51	Reduced graphene oxide enhances horseradish peroxidase stability by serving as radical scavenger and redox mediator. Carbon, 2015, 94, 531-538.	5.4	81
52	Facet-Dependent Catalytic Activity of Nanosheet-Assembled Bismuth Oxyiodide Microspheres in Degradation of Bisphenol A. Environmental Science & Technology, 2015, 49, 6240-6248.	4.6	179
53	Transport of Sulfide-Reduced Graphene Oxide in Saturated Quartz Sand: Cation-Dependent Retention Mechanisms. Environmental Science & Technology, 2015, 49, 11468-11475.	4.6	87
54	Effects of sulfide reduction on adsorption affinities of colloidal graphene oxide nanoparticles for phenanthrene and 1-naphthol. Environmental Pollution, 2015, 196, 371-378.	3.7	42

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55	Genotoxicity and Cytotoxicity of Cadmium Sulfide Nanomaterials to Mice: Comparison Between Nanorods and Nanodots. Environmental Engineering Science, 2014, 31, 373-380.	0.8	30
56	Regional Variation in Water-Related Impacts of Shale Gas Development and Implications for Emerging International Plays. Environmental Science & Technology, 2014, 48, 8298-8306.	4.6	111
57	Adsorption of sulfonamides to demineralized pine wood biochars prepared under different thermochemical conditions. Environmental Pollution, 2014, 186, 187-194.	3.7	221
58	Bioremediation of highly contaminated oilfield soil: Bioaugmentation for enhancing aromatic compounds removal. Frontiers of Environmental Science and Engineering, 2014, 8, 293-304.	3.3	31
59	Transformation and destabilization of graphene oxide in reducing aqueous solutions containing sulfide. Environmental Toxicology and Chemistry, 2014, 33, 2647-2653.	2.2	28
60	Effects of the preparation method and humic-acid modification on the mobility and contaminant-mobilizing capability of fullerene nanoparticles (nC60). Environmental Sciences: Processes and Impacts, 2014, 16, 1282.	1.7	9
61	Transport of graphene oxide nanoparticles in saturated sandy soil. Environmental Sciences: Processes and Impacts, 2014, 16, 2268-2277.	1.7	65
62	Factors controlling transport of graphene oxide nanoparticles in saturated sand columns. Environmental Toxicology and Chemistry, 2014, 33, 998-1004.	2.2	91
63	Dehydrochlorination of activated carbon-bound 1,1,2,2-tetrachloroethane: Implications for carbonaceous material-based soil/sediment remediation. Carbon, 2014, 78, 578-588.	5.4	24
64	Effects of Cu(II) and Ni(II) ions on adsorption of tetracycline to functionalized carbon nanotubes. Journal of Zhejiang University: Science A, 2014, 15, 653-661.	1.3	16
65	Enhanced Transport of Phenanthrene and 1-Naphthol by Colloidal Graphene Oxide Nanoparticles in Saturated Soil. Environmental Science & Technology, 2014, 48, 10136-10144.	4.6	73
66	Adsorption of tetracycline to nano-NiO: the effect of co-existing Cu(ii) ions and environmental implications. Environmental Sciences: Processes and Impacts, 2014, 16, 1462.	1.7	40
67	Manganese Peroxidase Degrades Pristine but Not Surface-Oxidized (Carboxylated) Single-Walled Carbon Nanotubes. Environmental Science & Technology, 2014, 48, 7918-7923.	4.6	68
68	Reductive dechlorination of hexachloroethane by sulfide in aqueous solutions mediated by graphene oxide and carbon nanotubes. Carbon, 2014, 72, 74-81.	5.4	53
69	Species-dependent effects of biochar amendment on bioaccumulation of atrazine in earthworms. Environmental Pollution, 2014, 186, 241-247.	3.7	67
70	Synergistic role of different soil components in slow sorption kinetics of polar organic contaminants. Environmental Pollution, 2014, 184, 123-130.	3.7	12
71	Adsorption of polar, nonpolar, and substituted aromatics to colloidal graphene oxide nanoparticles. Environmental Pollution, 2014, 186, 226-233.	3.7	104
72	Catalytic Effects of Functionalized Carbon Nanotubes on Dehydrochlorination of 1,1,2,2-Tetrachloroethane. Environmental Science & Technology, 2014, 48, 3856-3863.	4.6	39

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73	Sorption of monoaromatic compounds to heated and unheated coals, humic acid, and biochar: Implication for using combustion method to quantify sorption contribution of carbonaceous geosorbents in soil. Applied Geochemistry, 2013, 35, 289-296.	1.4	6
74	Contaminantâ€mobilizing capability of fullerene nanoparticles (<i>n</i>C₆₀): Effect of solventâ€exchange process in <i>n</i>C₆₀ formation. Environmental Toxicology and Chemistry, 2013, 32, 329-336.	2.2	20
75	Activity of catalase adsorbed to carbon nanotubes: Effects of carbon nanotube surface properties. Talanta, 2013, 113, 142-147.	2.9	47
76	Graphene Nanosheets and Graphite Oxide as Promising Adsorbents for Removal of Organic Contaminants from Aqueous Solution. Journal of Environmental Quality, 2013, 42, 191-198.	1.0	136
77	Effect of Heat Treatment on Sorption of Polar and Nonpolar Compounds to Montmorillonites and Soils. Journal of Environmental Quality, 2012, 41, 1284-1289.	1.0	2
78	Link between black carbon and resistant desorption of PAHs on soil and sediment. Journal of Soils and Sediments, 2012, 12, 713-723.	1.5	23
79	Humic acidâ€mediated transport of tetracycline and pyrene in saturated porous media. Environmental Toxicology and Chemistry, 2012, 31, 534-541.	2.2	30
80	Effect of copper ion on adsorption of chlorinated phenols and 1â€naphthylamine to surfaceâ€modified carbon nanotubes. Environmental Toxicology and Chemistry, 2012, 31, 100-107.	2.2	21
81	Engineered nanoparticles for hydrocarbon detection in oil-field rocks. Energy and Environmental Science, 2011, 4, 505-509.	15.6	72
82	Bi₂O₃â ̂'Bi₂WO₆ Composite Microspheres: Hydrothermal Synthesis and Photocatalytic Performances. Journal of Physical Chemistry C, 2011, 115, 5220-5225.	1.5	219
83	Facilitated Transport of 2,2â€²,5,5â€²-Polychlorinated Biphenyl and Phenanthrene by Fullerene Nanoparticles through Sandy Soil Columns. Environmental Science & Technology, 2011, 45, 1341-1348.	4.6	71
84	Immobilization of lead and cadmium from aqueous solution and contaminated sediment using nano-hydroxyapatite. Environmental Pollution, 2010, 158, 514-519.	3.7	207
85	Adsorption of single-ringed N- and S-heterocyclic aromatics on carbon nanotubes. Carbon, 2010, 48, 3906-3915.	5.4	90
86	Comparison of Earthworm Bioaccumulation between Readily Desorbable and Desorption-Resistant Naphthalene: Implications for Biouptake Routes. Environmental Science & Technology, 2010, 44, 323-328.	4.6	30
87	pH-dependent effect of zinc on arsenic adsorption to magnetite nanoparticles. Water Research, 2010, 44, 5693-5701.	5.3	96
88	Sorption and Resistant Desorption of Atrazine in Typical Chinese Soils. Journal of Environmental Quality, 2009, 38, 171-179.	1.0	14
89	Sorption of nitroaromatics to soils: Comparison of the importance of soil organic matter versus clay. Environmental Toxicology and Chemistry, 2009, 28, 1447-1454.	2.2	28
90	Response to Comment on â€œAdsorption of Hydroxyl- and Amino-Substituted Aromatics to Carbon Nanotubesâ€. Environmental Science & Technology, 2009, 43, 3400-3401.	4.6	10

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91	Effects of chemical oxidation on sorption and desorption of PAHs in typical Chinese soils. Environmental Pollution, 2009, 157, 1894-1903.	3.7	32
92	Adsorption of Sulfonamide Antibiotics to Multiwalled Carbon Nanotubes. Langmuir, 2009, 25, 11608-11613.	1.6	308
93	Mechanisms for strong adsorption of tetracycline to carbon nanotubes: A comparative study using activated carbon and graphite as adsorbents. Environmental Science & Technology, 2009, 43, 2322-2327.	4.6	670
94	Directed Synthesis of Hierarchical Nanostructured TiO₂ Catalysts and their Morphology-Dependent Photocatalysis for Phenol Degradation. Environmental Science & Technology, 2008, 42, 2342-2348.	4.6	131
95	Adsorption of Nonionic Aromatic Compounds to Single-Walled Carbon Nanotubes: Effects of Aqueous Solution Chemistry. Environmental Science & Technology, 2008, 42, 7225-7230.	4.6	247
96	RESISTANT DESORPTION OF HYDROPHOBIC ORGANIC CONTAMINANTS IN TYPICAL CHINESE SOILS: IMPLICATIONS FOR LONG-TERM FATE AND SOIL QUALITY STANDARDS. Environmental Toxicology and Chemistry, 2008, 27, 235.	2.2	21
97	RELEASE OF ADSORBED POLYCYCLIC AROMATIC HYDROCARBONS UNDER COSOLVENT TREATMENT: IMPLICATIONS FOR AVAILABILITY AND FATE. Environmental Toxicology and Chemistry, 2008, 27, 112.	2.2	8
98	Adsorption of Hydroxyl- and Amino-Substituted Aromatics to Carbon Nanotubes. Environmental Science & Technology, 2008, 42, 6862-6868.	4.6	345
99	Release of hexachlorocyclohexanes from historically and freshly contaminated soils in China: Implications for fate and regulation. Environmental Pollution, 2008, 156, 753-759.	3.7	7
100	Adsorption of Polar and Nonpolar Organic Chemicals to Carbon Nanotubes. Environmental Science & Technology, 2007, 41, 8295-8300.	4.6	683
101	BIOAVAILABILITY OF POLYCYCLIC AROMATIC HYDROCARBONS SEQUESTERED IN SEDIMENT: MICROBIAL STUDY AND MODEL PREDICTION. Environmental Toxicology and Chemistry, 2007, 26, 878.	2.2	19
102	A Program for Evaluating Dual-Equilibrium Desorption Effects on Remediation. Ground Water, 2004, 42, 620-624.	0.7	6