

Wei-Xian Zhang

List of Publications by Year in descending order

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129
papers

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22153

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129
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11969
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#	ARTICLE	IF	CITATIONS
1	Enhanced degradation of micropollutants over iron-based electro-Fenton catalyst: Cobalt as an electron modulator in mesochannels and mechanism insight. <i>Journal of Hazardous Materials</i> , 2022, 427, 127896.	12.4	18
2	How to Build a Microplastics-Free Environment: Strategies for Microplastics Degradation and Plastics Recycling. <i>Advanced Science</i> , 2022, 9, e2103764.	11.2	87
3	Wet Milling of Zerovalent Iron in Sulfide Solution: Preserving and Securing the Metallic Iron. <i>ACS ES&T Engineering</i> , 2022, 2, 703-712.	7.6	7
4	Microbes team with nanoscale zero-valent iron: A robust route for degradation of recalcitrant pollutants. <i>Journal of Environmental Sciences</i> , 2022, 118, 140-146.	6.1	6
5	Electrocatalytic reduction of nitrate – a step towards a sustainable nitrogen cycle. <i>Chemical Society Reviews</i> , 2022, 51, 2710-2758.	38.1	323
6	Probing the performance and mechanisms of Congo red wastewater decolorization with nanoscale zero-valent iron in the continuing flow reactor. <i>Journal of Cleaner Production</i> , 2022, 346, 131201.	9.3	11
7	Nanocelluloses affixed nanoscale Zero-Valent Iron (nZVI) for nickel removal: Synthesis, characterization and mechanisms. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107466.	6.7	30
8	A win-win solution to chromate removal by sulfidated nanoscale zero-valent iron in sludge. <i>Journal of Hazardous Materials</i> , 2022, 432, 128683.	12.4	16
9	In situ characterization of aggregates of nanoscale zero-valent iron (nZVI) in water: an engineering aspect. <i>Environmental Science: Nano</i> , 2022, 9, 3331-3342.	4.3	3
10	Enhanced aggregation and sedimentation of nanoscale zero-valent iron (nZVI) with polyacrylamide modification. <i>Chemosphere</i> , 2021, 263, 127875.	8.2	14
11	Probing pollutant reactions at the iron surface: a case study on selenite reactions with nanoscale zero-valent iron. <i>Environmental Science: Nano</i> , 2021, 8, 2650-2659.	4.3	10
12	Enrichment of uranium from wastewater with nanoscale zero-valent iron (nZVI). <i>Environmental Science: Nano</i> , 2021, 8, 666-674.	4.3	19
13	Enrichment of Uranium from Aqueous Solutions with Nanoscale Zero-valent Iron: Surface Chemistry and Application Prospect. <i>Acta Chimica Sinica</i> , 2021, 79, 1008.	1.4	4
14	Biofilm Community Structures and Opportunistic Pathogen Gene Markers in Drinking Water Mains and the Role of Pipe Materials. <i>ACS ES&T Water</i> , 2021, 1, 630-640.	4.6	11
15	Single iron atom catalysis: An environmental perspective. <i>Nano Today</i> , 2021, 38, 101117.	11.9	17
16	Enhanced activity and selectivity of electrocatalytic denitrification by highly dispersed CuPd bimetals on reduced graphene oxide. <i>Chemical Engineering Journal</i> , 2021, 416, 129074.	12.7	24
17	Visualizing Trace Pollutants in Solids at Nanoscale via Electron Tomography. <i>Environmental Science & Technology</i> , 2021, 55, 11533-11537.	10.0	2
18	Transformation of nanoscale zero-valent iron with antimony: Effects of the Sb spatial configuration. <i>Chemical Engineering Journal</i> , 2021, 416, 129073.	12.7	24

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19	Nanoscale zero-valent iron (nZVI) encapsulated within tubular nitride carbon for highly selective and stable electrocatalytic denitrification. <i>Chemical Engineering Journal</i> , 2021, 417, 129160.	12.7	34
20	Architectural Genesis of Metal(loid)s with Iron Nanoparticle in Water. <i>Environmental Science & Technology</i> , 2021, 55, 12801-12808.	10.0	5
21	Highly dispersed Fe-Ce mixed oxide catalysts confined in mesochannels toward low-temperature oxidation of formaldehyde. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17174-17184.	10.3	43
22	Iron-Catalyzed Selective Denitrification over N-Doped Mesoporous Carbon. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28091-28099.	8.0	29
23	Nanodenitrification with bimetallic nanoparticles confined in N-doped mesoporous carbon. <i>Environmental Science: Nano</i> , 2020, 7, 1496-1506.	4.3	26
24	Nano-spatially confined Pd-Cu bimetallics in porous N-doped carbon as an electrocatalyst for selective denitrification. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9545-9553.	10.3	35
25	Nitrogen-doped iron for selective catalytic reduction of nitrate to dinitrogen. <i>Science Bulletin</i> , 2020, 65, 926-933.	9.0	47
26	Pb(II) deposition-reduction-growth onto iron nanoparticles induced by graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2020, 387, 124088.	12.7	19
27	Site-selective exposure of iron nanoparticles to achieve rapid interface enrichment for heavy metals. <i>Chemical Communications</i> , 2020, 56, 2795-2798.	4.1	13
28	Fe/Fe ₃ C nanoparticle-decorated N-doped carbon nanofibers for improving the nitrogen selectivity of electrocatalytic nitrate reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15853-15863.	10.3	96
29	Feasibility of nanoscale zero-valent iron (nZVI) for enhanced biological treatment of organic dyes. <i>Chemosphere</i> , 2019, 237, 124470.	8.2	36
30	Recovery of gold from wastewater using nanoscale zero-valent iron. <i>Environmental Science: Nano</i> , 2019, 6, 519-527.	4.3	17
31	Spatially Confined Tuning the Interfacial Synergistic Catalysis in Mesochannels toward Selective Catalytic Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19242-19251.	8.0	19
32	Synthesis of mesoporous silica-carbon microspheres via self-assembly and in-situ carbonization for efficient adsorption of Di-n-butyl phthalate. <i>Chemical Engineering Journal</i> , 2019, 369, 854-862.	12.7	28
33	Stabilization of nanoscale zero-valent iron in water with mesoporous carbon (nZVI@MC). <i>Journal of Environmental Sciences</i> , 2019, 81, 28-33.	6.1	23
34	Bimetallic PdCu Nanocrystals Immobilized by Nitrogen-Containing Ordered Mesoporous Carbon for Electrocatalytic Denitrification. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3861-3868.	8.0	57
35	Enrichment of Precious Metals from Wastewater with Core-Shell Nanoparticles of Iron. <i>Advanced Materials</i> , 2018, 30, e1705703.	21.0	97
36	Nanoencapsulation of hexavalent chromium with nanoscale zero-valent iron: High resolution chemical mapping of the passivation layer. <i>Journal of Environmental Sciences</i> , 2018, 67, 4-13.	6.1	67

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37	Effect of bicarbonate on aging and reactivity of nanoscale zerovalent iron (nZVI) toward uranium removal. <i>Chemosphere</i> , 2018, 201, 603-611.	8.2	38
38	Selective Nitrate Reduction to Dinitrogen by Electrocatalysis on Nanoscale Iron Encapsulated in Mesoporous Carbon. <i>Environmental Science & Technology</i> , 2018, 52, 230-236.	10.0	175
39	Nanoencapsulation of arsenate with nanoscale zero-valent iron (nZVI): A 3D perspective. <i>Science Bulletin</i> , 2018, 63, 1641-1648.	9.0	38
40	The colorful chemistry of nanoscale zero-valent iron (nZVI). <i>Journal of Environmental Sciences</i> , 2018, 67, 1-3.	6.1	6
41	Iron nanoparticles in capsules: derived from mesoporous silica-protected Prussian blue microcubes for efficient selenium removal. <i>Chemical Communications</i> , 2018, 54, 5887-5890.	4.1	24
42	Porous Carbon-Confined Formation of Monodisperse Iron Nanoparticle Yolks toward Versatile Nanoreactors for Metal Extraction. <i>Chemistry - A European Journal</i> , 2018, 24, 15663-15668.	3.3	15
43	Visualization of Silver Nanoparticle Formation on Nanoscale Zero-Valent Iron. <i>Environmental Science and Technology Letters</i> , 2018, 5, 520-525.	8.7	25
44	Heavy metal removal using nanoscale zero-valent iron (nZVI): Theory and application. <i>Journal of Hazardous Materials</i> , 2017, 322, 163-171.	12.4	301
45	Evolution of nanoscale zero-valent iron (nZVI) in water: Microscopic and spectroscopic evidence on the formation of nano- and micro-structured iron oxides. <i>Journal of Hazardous Materials</i> , 2017, 322, 129-135.	12.4	209
46	Nanoscale zero-valent iron in mesoporous carbon (nZVI@C): stable nanoparticles for metal extraction and catalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4478-4485.	10.3	62
47	Visualizing Arsenate Reactions and Encapsulation in a Single Zero-Valent Iron Nanoparticle. <i>Environmental Science & Technology</i> , 2017, 51, 2288-2294.	10.0	80
48	Solution and surface chemistry of the Se(IV)-Fe(0) reactions: Effect of initial solution pH. <i>Chemosphere</i> , 2017, 168, 1597-1603.	8.2	37
49	Mapping the Reactions in a Single Zero-Valent Iron Nanoparticle. <i>Environmental Science & Technology</i> , 2017, 51, 14293-14300.	10.0	71
50	Genesis of pure Se(0) nano- and micro-structures in wastewater with nanoscale zero-valent iron (nZVI). <i>Environmental Science: Nano</i> , 2017, 4, 52-59.	4.3	37
51	Heavy Metal-nZVI Reactions: the Core-shell Structure and Applications for Heavy Metal Treatment. <i>Acta Chimica Sinica</i> , 2017, 75, 529.	1.4	16
52	Highly Ordered Dual Porosity Mesoporous Cobalt Oxide for Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500464.	3.7	60
53	Enhanced sequestration of large-sized dissolved organic micropollutants in polymeric membranes incorporated with mesoporous carbon. <i>RSC Advances</i> , 2016, 6, 81477-81484.	3.6	5
54	Removal of Pb(II) and Zn(II) using lime and nanoscale zero-valent iron (nZVI): A comparative study. <i>Chemical Engineering Journal</i> , 2016, 304, 79-88.	12.7	73

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55	The influence of polyelectrolyte modification on nanoscale zero-valent iron (nZVI): Aggregation, sedimentation, and reactivity with Ni(II) in water. <i>Chemical Engineering Journal</i> , 2016, 303, 268-274.	12.7	62
56	Ordered mesoporous silica/polyvinylidene fluoride composite membranes for effective removal of water contaminants. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3850-3857.	10.3	28
57	Enrichment and Encapsulation of Uranium with Iron Nanoparticle. <i>Journal of the American Chemical Society</i> , 2015, 137, 2788-2791.	13.7	177
58	Removal of selenium from water with nanoscale zero-valent iron: Mechanisms of intraparticle reduction of Se(IV). <i>Water Research</i> , 2015, 71, 274-281.	11.3	195
59	TiO ₂ interpenetrating networks decorated with SnO ₂ nanocrystals: enhanced activity of selective catalytic reduction of NO with NH ₃ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 1405-1409.	10.3	24
60	Preparation of a mesoporous Cu@Mn/TiO ₂ composite for the degradation of Acid Red 1. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7399-7405.	10.3	23
61	Yolk-shell silicon-mesoporous carbon anode with compact solid electrolyte interphase film for superior lithium-ion batteries. <i>Nano Energy</i> , 2015, 18, 133-142.	16.0	238
62	Uniform yolk-shell iron sulfide@carbon nanospheres for superior sodium-iron sulfide batteries. <i>Nature Communications</i> , 2015, 6, 8689.	12.8	374
63	Amino-functionalized ordered mesoporous carbon for the separation of toxic microcystin-LR. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19168-19176.	10.3	40
64	Transformation and composition evolution of nanoscale zero valent iron (nZVI) synthesized by borohydride reduction in static water. <i>Chemosphere</i> , 2015, 119, 1068-1074.	8.2	158
65	Enhanced separation of nanoscale zero-valent iron (nZVI) using polyacrylamide: Performance, characterization and implication. <i>Chemical Engineering Journal</i> , 2015, 260, 616-622.	12.7	29
66	Boric acid assisted formation of mesostructured silica: from hollow spheres to hierarchical assembly. <i>RSC Advances</i> , 2014, 4, 20069-20076.	3.6	19
67	Mapping the reactions of hexavalent chromium [Cr(VI)] in iron nanoparticles using spherical aberration corrected scanning transmission electron microscopy (Cs-STEM). <i>Analytical Methods</i> , 2014, 6, 3211-3214.	2.7	16
68	Sequestration of Arsenate in Zero-Valent Iron Nanoparticles: Visualization of Intraparticle Reactions at Angstrom Resolution. <i>Environmental Science and Technology Letters</i> , 2014, 1, 305-309.	8.7	52
69	Large pore mesostructured cellular silica foam coated magnetic oxide composites with multilamellar vesicle shells for adsorption. <i>Chemical Communications</i> , 2014, 50, 713-715.	4.1	40
70	Nanoscale zero-valent iron (nZVI) for the treatment of concentrated Cu(II) wastewater: a field demonstration. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 524-533.	3.5	78
71	Formation of lepidocrocite (̳-FeOOH) from oxidation of nanoscale zero-valent iron (nZVI) in oxygenated water. <i>RSC Advances</i> , 2014, 4, 57377-57382.	3.6	170
72	Structures of Pd@Fe(0) bimetallic nanoparticles near 0.1 nm resolution. <i>RSC Advances</i> , 2014, 4, 33861.	3.6	13

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73	A triblock-copolymer-templating route to carbon spheres@SBA-15 large mesopore core-shell and hollow structures. RSC Advances, 2014, 4, 48676-48681.	3.6	4
74	Fine structural features of nanoscale zero-valent iron characterized by spherical aberration corrected scanning transmission electron microscopy (Cs-STEM). Analyst, The, 2014, 139, 4512-4518.	3.5	58
75	Controllable fabrication of dendritic mesoporous silica-carbon nanospheres for anthracene removal. Journal of Materials Chemistry A, 2014, 2, 11045.	10.3	33
76	Reactions of Nanoscale Zero-Valent Iron with Ni(II): Three-Dimensional Tomography of the Hollow Out-Effect in a Single Nanoparticle. Environmental Science and Technology Letters, 2014, 1, 209-213.	8.7	36
77	Effect of initial solution pH on photo-induced reductive decomposition of perfluorooctanoic acid. Chemosphere, 2014, 107, 218-223.	8.2	83
78	Mesoporous Silica-Coated Plasmonic Nanostructures for Surface-Enhanced Raman Scattering Detection and Photothermal Therapy. Advanced Healthcare Materials, 2014, 3, 1620-1628.	7.6	65
79	Zero-valent iron nanoparticles (nZVI) for the treatment of smelting wastewater: A pilot-scale demonstration. Chemical Engineering Journal, 2014, 254, 115-123.	12.7	88
80	Iron nanoparticles for environmental clean-up: recent developments and future outlook. Environmental Sciences: Processes and Impacts, 2013, 15, 63-77.	3.5	316
81	Nanoscale Zero-Valent Iron (nZVI) for Site Remediation. , 2012, , 25-48.		0
82	As(III) Sequestration by Iron Nanoparticles: Study of Solid-Phase Redox Transformations with X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 5303-5311.	3.1	128
83	Renewable hydrogen generation by bimetallic zero valent iron nanoparticles. Chemical Engineering Journal, 2011, 170, 562-567.	12.7	85
84	Enhanced transport of polyelectrolyte stabilized nanoscale zero-valent iron (nZVI) in porous media. Chemical Engineering Journal, 2011, 170, 482-491.	12.7	156
85	Hexachlorocyclohexanes in the Environment: Mechanisms of Dechlorination. Critical Reviews in Environmental Science and Technology, 2011, 41, 1747-1792.	12.8	36
86	Nanoscale zero-valent iron (nZVI): Aspects of the core-shell structure and reactions with inorganic species in water. Journal of Contaminant Hydrology, 2010, 118, 96-104.	3.3	281
87	Dechlorination of pentachlorophenol using nanoscale Fe/Ni particles: Role of nano-Ni and its size effect. Journal of Hazardous Materials, 2010, 180, 79-85.	12.4	87
88	Reduction of Cr(VI) by Nanoscale Zero Valent Iron (nZVI): The Reaction Kinetics. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	2
89	Multi-tiered distributions of arsenic in iron nanoparticles: Observation of dual redox functionality enabled by a core-shell structure. Chemical Communications, 2010, 46, 6995.	4.1	61
90	Structural Evolution of Pd-Doped Nanoscale Zero-Valent Iron (nZVI) in Aqueous Media and Implications for Particle Aging and Reactivity. Environmental Science & Technology, 2010, 44, 4288-4294.	10.0	162

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91	Reply to "Comments on "Stoichiometry of Cr(VI) Immobilization Using Nanoscale Zerovalent Iron (nZVI): A Study with High-Resolution X-ray Photoelectron Spectroscopy (HR-XPS)" Industrial & Engineering Chemistry Research, 2009, 48, 2298-2298.	3.7	6
92	Solvent-free production of nanoscale zero-valent iron (nZVI) with precision milling. Green Chemistry, 2009, 11, 1618.	9.0	159
93	Simultaneous Oxidation and Reduction of Arsenic by Zero-Valent Iron Nanoparticles: Understanding the Significance of the Core-Shell Structure. Journal of Physical Chemistry C, 2009, 113, 14591-14594.	3.1	232
94	Degradation of Lindane by Zero-Valent Iron Nanoparticles. Journal of Environmental Engineering, ASCE, 2009, 135, 317-324.	1.4	134
95	Stoichiometry of Cr(VI) Immobilization Using Nanoscale Zerovalent Iron (nZVI): A Study with High-Resolution X-Ray Photoelectron Spectroscopy (HR-XPS). Industrial & Engineering Chemistry Research, 2008, 47, 2131-2139.	3.7	309
96	Enhanced Biological Treatment of Industrial Wastewater With Bimetallic Zero-Valent Iron. Environmental Science & Technology, 2008, 42, 5384-5389.	10.0	175
97	Temperature Programmed Reduction for Measurement of Oxygen Content in Nanoscale Zero-Valent Iron. Environmental Science & Technology, 2008, 42, 3780-3785.	10.0	26
98	Oxidation of Lindane with Fe(II)-Activated Sodium Persulfate. Environmental Engineering Science, 2008, 25, 221-228.	1.6	82
99	Determination of the Oxide Layer Thickness in Core-Shell Zerovalent Iron Nanoparticles. Langmuir, 2008, 24, 4329-4334.	3.5	204
100	Zerovalent Iron Nanoparticles for Treatment of Ground Water Contaminated by Hexachlorocyclohexanes. Journal of Environmental Quality, 2008, 37, 2192-2201.	2.0	40
101	Sequestration of Metal Cations with Zerovalent Iron Nanoparticles A Study with High Resolution X-ray Photoelectron Spectroscopy (HR-XPS). Journal of Physical Chemistry C, 2007, 111, 6939-6946.	3.1	509
102	Nanoscale Pd/Fe bimetallic particles: Catalytic effects of palladium on hydrodechlorination. Applied Catalysis B: Environmental, 2007, 77, 110-116.	20.2	292
103	A method for the preparation of stable dispersion of zero-valent iron nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 308, 60-66.	4.7	341
104	Comparison of reductive dechlorination of p-chlorophenol using Fe0 and nanosized Fe0. Journal of Hazardous Materials, 2007, 144, 334-339.	12.4	171
105	Stabilization of biosolids with nanoscale zero-valent iron (nZVI). Journal of Nanoparticle Research, 2007, 9, 233-243.	1.9	120
106	Nanoscale Zero-Valent Iron (nZVI) for Site Remediation. , 2007, , 25-48.		3
107	Zero-Valent Iron Nanoparticles for Abatement of Environmental Pollutants: Materials and Engineering Aspects. Critical Reviews in Solid State and Materials Sciences, 2006, 31, 111-122.	12.3	878
108	Iron Nanoparticles: The Core-Shell Structure and Unique Properties for Ni(II) Sequestration. Langmuir, 2006, 22, 4638-4642.	3.5	406

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109	Nanoscale Bimetallic Pd/Fe Particles for Remediation of Halogenated Methanes. , 2006, , 187-205.		1
110	Applications of iron nanoparticles for groundwater remediation. Remediation, 2006, 16, 7-21.	2.4	210
111	Nanotechnology and groundwater remediation: A step forward in technology understanding. Remediation, 2006, 16, 23-33.	2.4	64
112	Characterization of zero-valent iron nanoparticles. Advances in Colloid and Interface Science, 2006, 120, 47-56.	14.7	828
113	Stabilization of chromium ore processing residue (COPR) with nanoscale iron particles. Journal of Hazardous Materials, 2006, 132, 213-219.	12.4	154
114	Perchlorate Reduction by Nanoscale Iron Particles. Journal of Nanoparticle Research, 2005, 7, 499-506.	1.9	200
115	Nanoporous zero-valent iron. Journal of Materials Research, 2005, 20, 3238-3243.	2.6	19
116	Hydrodechlorination of Chlorinated Ethanes by Nanoscale Pd/Fe Bimetallic Particles. Journal of Environmental Engineering, ASCE, 2005, 131, 4-10.	1.4	93
117	Environmental Technologies at the Nanometer-Scale. ACS Symposium Series, 2004, , 7-12.	0.5	0
118	Iron Nanoparticles for Site Remediation. ACS Symposium Series, 2004, , 248-255.	0.5	1
119	Nanoscale Iron Particles for Environmental Remediation: An Overview. Journal of Nanoparticle Research, 2003, 5, 323-332.	1.9	1,715
120	Peer Reviewed: Environmental Technologies at the Nanoscale. Environmental Science & Technology, 2003, 37, 102A-108A.	10.0	506
121	Field Assessment of Nanoscale Bimetallic Particles for Groundwater Treatment. Environmental Science & Technology, 2001, 35, 4922-4926.	10.0	808
122	Nanoscale iron particles for complete reduction of chlorinated ethenes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 191, 97-105.	4.7	298
123	Subcolloidal Fe/Ag Particles for Reductive Dehalogenation of Chlorinated Benzenes. Industrial & Engineering Chemistry Research, 2000, 39, 2238-2244.	3.7	213
124	Transformation of Chlorinated Methanes by Nanoscale Iron Particles. Journal of Environmental Engineering, ASCE, 1999, 125, 1042-1047.	1.4	187
125	Bioavailability of Hydrophobic Organic Contaminants: Effects and Implications of Sorption-Related Mass Transfer on Bioremediation. Ground Water Monitoring and Remediation, 1998, 18, 126-138.	0.8	69
126	Treatment of chlorinated organic contaminants with nanoscale bimetallic particles. Catalysis Today, 1998, 40, 387-395.	4.4	531

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127	Synthesizing Nanoscale Iron Particles for Rapid and Complete Dechlorination of TCE and PCBs. Environmental Science & Technology, 1997, 31, 2154-2156.	10.0	1,446
128	Biodegradation of benzene, toluene and naphthalene in soil-water slurry microcosms. Biodegradation, 1997, 8, 167-175.	3.0	53
129	Pollutants Transformation by Metal Nanoparticles in Confined Nanospaces. Environmental Science: Nano, 0, , .	4.3	1