

# Pei C Chiu

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,839  
citations

361413

20  
h-index

289244

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of munition constituents in stormwater runoff: Screening of native and cationized cellulosic sorbents for removal of insensitive munition constituents NTO, DNAN, and NQ, and legacy munition constituents HMX, RDX, TNT, and perchlorate.. Journal of Hazardous Materials, 2022, 424, 127335.	12.4	9
2	Abiotic reduction of 3-nitro-1,2,4-triazol-5-one (NTO) and other munitions constituents by wood-derived biochar through its rechargeable electron storage capacity. Environmental Sciences: Processes and Impacts, 2022, , .	3.5	3
3	A Synergistic Nano-Zerovalent Iron-Hydrogen Peroxide Technology for Insensitive Munitions Wastewater Treatment. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	4
4	Modeling the Reduction Kinetics of Munition Compounds by Humic Acids. Environmental Science & Technology, 2022, 56, 4926-4935.	10.0	3
5	Pyrolysis Creates Electron Storage Capacity of Black Carbon (Biochar) from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2021, 9, 6821-6831.	6.7	19
6	Reductive Transformation of 3-Nitro-1,2,4-triazol-5-one (NTO) by Leonardite Humic Acid and Anthraquinone-2,6-disulfonate (AQDS). Environmental Science & Technology, 2021, 55, 12973-12983.	10.0	7
7	Zero-Valent Iron Filtration Reduces Microbial Contaminants in Irrigation Water and Transfer to Raw Agricultural Commodities. Microorganisms, 2021, 9, 2009.	3.6	7
8	Escherichia coli Reduction in Water by Zero-Valent Iron-Sand Filtration Is Based on Water Quality Parameters. Water (Switzerland), 2021, 13, 2702.	2.7	7
9	A Unified Linear Free Energy Relationship for Abiotic Reduction Rate of Nitroaromatics and Hydroquinones Using Quantum Chemically Estimated Energies. Environmental Toxicology and Chemistry, 2020, 39, 2389-2395.	4.3	3
10	Reduction of 3-Nitro-1,2,4-Triazol-5-One (NTO) by the Hematite-Aqueous Fe(II) Redox Couple. Environmental Science & Technology, 2020, 54, 12191-12201.	10.0	25
11	Hydrogen Atom Transfer Reaction Free Energy as a Predictor of Abiotic Nitroaromatic Reduction Rate Constants: A Comprehensive Analysis. Environmental Toxicology and Chemistry, 2020, 39, 1678-1684.	4.3	4
12	Visualizing the distribution of black carbon's electron storage capacity using silver. MethodsX, 2020, 7, 100838.	1.6	2
13	Visualizing electron storage capacity distribution in biochar through silver tagging. Chemosphere, 2020, 248, 125952.	8.2	10
14	Experimental Validation of Hydrogen Atom Transfer Gibbs Free Energy as a Predictor of Nitroaromatic Reduction Rate Constants. Environmental Science & Technology, 2019, 53, 5816-5827.	10.0	17
15	Effect of Pyrolysis Temperature on Acidic Oxygen-Containing Functional Groups and Electron Storage Capacities of Pyrolyzed Hydrochars. ACS Sustainable Chemistry and Engineering, 2019, 7, 8387-8396.	6.7	47
16	Zero-valent iron sand filtration reduces concentrations of virus-like particles and modifies virome community composition in reclaimed water used for agricultural irrigation. BMC Research Notes, 2019, 12, 223.	1.4	13
17	Zerovalent iron-sand filtration can reduce the concentration of multiple antimicrobials in conventionally treated reclaimed water. Environmental Research, 2019, 172, 301-309.	7.5	14
18	A pilot-scale, bi-layer bioretention system with biochar and zero-valent iron for enhanced nitrate removal from stormwater. Water Research, 2019, 148, 378-387.	11.3	114

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19	New methods for assessing electron storage capacity and redox reversibility of biochar. <i>Chemosphere</i> , 2019, 215, 827-834.	8.2	45
20	Chemical methods for determining the electron storage capacity of black carbon. <i>MethodsX</i> , 2018, 5, 1515-1520.	1.6	8
21	Nutrient release and ammonium sorption by poultry litter and wood biochars in stormwater treatment. <i>Science of the Total Environment</i> , 2016, 553, 596-606.	8.0	97
22	Wood-Derived Black Carbon (Biochar) as a Microbial Electron Donor and Acceptor. <i>Environmental Science and Technology Letters</i> , 2016, 3, 62-66.	8.7	261
23	Phosphorus release behaviors of poultry litter biochar as a soil amendment. <i>Science of the Total Environment</i> , 2015, 512-513, 454-463.	8.0	139
24	Black carbon-mediated reductive transformation of nitro compounds by hydrogen sulfide. <i>Environmental Earth Sciences</i> , 2015, 73, 1813-1822.	2.7	25
25	Applications of Zero-Valent Iron (ZVI) and Nanoscale ZVI to Municipal and Decentralized Drinking Water Systems—A Review. <i>ACS Symposium Series</i> , 2013, , 237-249.	0.5	19
26	Biochar-mediated reductive transformation of nitro herbicides and explosives. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 501-508.	4.3	120
27	Black Carbon-Mediated Reduction of 2,4-Dinitrotoluene by Dithiothreitol. <i>Journal of Environmental Quality</i> , 2013, 42, 815-821.	2.0	20
28	A method to calculate the one-electron reduction potentials for nitroaromatic compounds based on gas-phase quantum mechanics. <i>Journal of Computational Chemistry</i> , 2011, 32, 226-239.	3.3	35
29	Reduction Rate Constants for Nitroaromatic Compounds Estimated from Adiabatic Electron Affinities. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7431-7436.	10.0	7
30	Graphite- and Soot-Mediated Reduction of 2,4-Dinitrotoluene and Hexahydro-1,3,5-trinitro-1,3,5-triazine. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6983-6988.	10.0	81
31	Transport of Atomic Hydrogen through Graphite and Its Reaction with Azoaromatic Compounds. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3959-3964.	10.0	26
32	REDUCTIVE TRANSFORMATION OF HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE, OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE, AND METHYLENEDINITRAMINE WITH ELEMENTAL IRON. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2812.	4.3	36
33	Removal and Inactivation of Waterborne Viruses Using Zerovalent Iron. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9263-9269.	10.0	190
34	Reduction of Nitroglycerin with Elemental Iron: Pathway, Kinetics, and Mechanisms. <i>Environmental Science &amp; Technology</i> , 2004, 38, 3723-3730.	10.0	41
35	Enhancing Fenton oxidation of TNT and RDX through pretreatment with zero-valent iron. <i>Water Research</i> , 2003, 37, 4275-4283.	11.3	96
36	Zero-Valent Iron Pretreatment for Enhancing the Biodegradability of Azo Dyes. <i>Water Environment Research</i> , 2002, 74, 221-225.	2.7	77

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37	Graphite-Mediated Reduction of 2,4-Dinitrotoluene with Elemental Iron. <i>Environmental Science &amp; Technology</i> , 2002, 36, 2178-2184.	10.0	108
38	Effect of adsorption to elemental iron on the transformation of 2,4,6-trinitrotoluene and hexahydro-1,3,5-trinitro-1,3,5-triazine in solution. <i>Environmental Toxicology and Chemistry</i> , 2002, 21, 1384-1389.	4.3	31
39	2-Bromoethanesulfonate Affects Bacteria in a Trichloroethene-Dechlorinating Culture. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2371-2374.	3.1	53
40	Biological Reduction of Trichloroethene Supported by Fe(0). <i>Bioremediation Journal</i> , 1998, 2, 175-181.	2.0	15