

Inez Hua

List of Publications by Year in descending order

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34
papers

2,901
citations

293460

24
h-index

466096

32
g-index

34
all docs

34
docs citations

34
times ranked

2864
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Ultrasonic Irradiation as an Advanced Oxidation Technology. <i>Environmental Science & Technology</i> , 1997, 31, 2237-2243.	4.6	398
2	Application of ultrasonic irradiation for the degradation of chemical contaminants in water. <i>Ultrasonics Sonochemistry</i> , 1996, 3, S163-S172.	3.8	313
3	Impact of Ultrasonic Frequency on Aqueous Sonoluminescence and Sonochemistry. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3796-3802.	1.1	298
4	Solar Photodecomposition of Decabromodiphenyl Ether:Â Products and Quantum Yield. <i>Environmental Science & Technology</i> , 2004, 38, 4149-4156.	4.6	247
5	Photodegradation of Decabromodiphenyl Ether Adsorbed onto Clay Minerals, Metal Oxides, and Sediment. <i>Environmental Science & Technology</i> , 2006, 40, 215-220.	4.6	214
6	Kinetics and Mechanism of the Sonolytic Degradation of CCl ₄ :Â Intermediates and Byproducts. <i>Environmental Science & Technology</i> , 1996, 30, 864-871.	4.6	196
7	Inactivation of <i>Escherichia coli</i> by sonication at discrete ultrasonic frequencies. <i>Water Research</i> , 2000, 34, 3888-3893.	5.3	135
8	Sonochemical degradation of p-nitrophenol in a parallel-plate near-field acoustical processor. <i>Environmental Science & Technology</i> , 1995, 29, 2790-2796.	4.6	131
9	Elucidation of the 1,4-Dioxane Decomposition Pathway at Discrete Ultrasonic Frequencies. <i>Environmental Science & Technology</i> , 2000, 34, 3944-3953.	4.6	126
10	Degradation of triethanolamine and chemical oxygen demand reduction in wastewater by photoactivated periodate. <i>Water Environment Research</i> , 1997, 69, 1112-1119.	1.3	85
11	Ultrasonic Irradiation of Dichlorvos: Decomposition Mechanism. <i>Water Research</i> , 2001, 35, 665-674.	5.3	82
12	Cavitation Chemistry of Polychlorinated Biphenyls:Â Decomposition Mechanisms and Rates. <i>Environmental Science & Technology</i> , 2000, 34, 1529-1534.	4.6	70
13	Enhanced sonochemical decomposition of 1,4-dioxane by ferrous iron. <i>Water Research</i> , 2003, 37, 2372-2376.	5.3	70
14	Enhanced chemical oxidation of aromatic hydrocarbons in soil systems. <i>Chemosphere</i> , 2005, 61, 909-922.	4.2	62
15	Ultrasonic Irradiation of Carbofuran. <i>Water Research</i> , 2001, 35, 1445-1452.	5.3	55
16	Production and Characterization of Encapsulated Potassium Permanganate for Sustained Release as an in Situ Oxidant. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 5187-5193.	1.8	54
17	Comprehensive elemental analysis of consumer electronic devices: Rare earth, precious, and critical elements. <i>Waste Management</i> , 2020, 103, 67-75.	3.7	47
18	Bioaccumulation and biomagnification of polybrominated diphenyl ethers in a food web of Lake Michigan. <i>Ecotoxicology</i> , 2010, 19, 623-634.	1.1	39

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19	Cosolvent-enhanced chemical oxidation of perchloroethylene by potassium permanganate. Journal of Contaminant Hydrology, 2006, 82, 61-74.	1.6	36
20	Supercritical Water Oxidation of Nitrobenzene. Industrial & Engineering Chemistry Research, 2003, 42, 285-289.	1.8	35
21	First-Year Students' Environmental Awareness and Understanding of Environmental Sustainability Through a Life Cycle Assessment Module. Journal of Engineering Education, 2014, 103, 154-181.	1.9	30
22	Enhanced Fenton's destruction of non-aqueous phase perchloroethylene in soil systems. Chemosphere, 2006, 63, 1685-1698.	4.2	28
23	Rational interface design of epoxy-organoclay nanocomposites: Role of structure-property relationship for silane modifiers. Journal of Colloid and Interface Science, 2014, 419, 73-78.	5.0	27
24	Enhanced dispersion of lignin in epoxy composites through hydration and mannich functionalization. Journal of Applied Polymer Science, 2015, 132, .	1.3	27
25	Bioaccumulation and biotransformation of decabromodiphenyl ether and effects on daily growth in juvenile lake whitefish (Coregonus clupeaformis). Ecotoxicology, 2010, 19, 751-760.	1.1	21
26	Quantifying spatiotemporal impacts of the interaction of water scarcity and water use by the global semiconductor manufacturing industry. Water Resources and Industry, 2019, 22, 100115.	1.9	18
27	Multifactor Statistical Analysis of H ₂ O ₂ -Enhanced Photodegradation of Nicotine and Phosphamidon. Industrial & Engineering Chemistry Research, 2009, 48, 3955-3963.	1.8	16
28	Examining the relationship between resistance to change and undergraduate engineering students' environmental knowledge and attitudes. Studies in Higher Education, 2017, 42, 390-409.	2.9	15
29	Impacts of Sonochemical Process Variables on Number Average Molecular Weight Reduction of Asphaltene. Industrial & Engineering Chemistry Research, 2006, 45, 5239-5245.	1.8	11
30	Environmental impacts of a circular recovery process for hard disk drive rare earth magnets. Resources, Conservation and Recycling, 2021, 173, 105694.	5.3	8
31	Temporal evolution of metallic element composition and environmental impact in consumer electronic devices: A study of smartphones. Resources, Conservation and Recycling, 2021, 175, 105886.	5.3	5
32	Impact of Household Location on First-Year Engineering Students' Environmental Awareness and Resistance to Change. Journal of Engineering Education, 2013, 102, 603-625.	1.9	1
33	A spatially explicit assessment of water use by the global semiconductor industry. , 2017, , .		1
34	Regionalized Chemical Footprint Method to Identify Aquatic Ecotoxicity Hotspots of Hard Disk Drive Rare Earth Magnets. Integrated Environmental Assessment and Management, 2022, , .	1.6	0