Linda K Weavers

List of Publications by Year
in descending order

70 papers	3,595 citations	126907 33 h-index	133252 59 g-index
72 all docs	72 docs citations	72 times ranked	3373 citing authors

#	Article	IF	Citations
1	Kinetics and Mechanism of Ultrasonic Activation of Persulfate: An in Situ EPR Spin Trapping Study. Environmental Science & Technology, 2017, 51, 3410-3417.	10.0	325
2	Aromatic Compound Degradation in Water Using a Combination of Sonolysis and Ozonolysis. Environmental Science & Technology, 1998, 32, 2727-2733.	10.0	229
3	Toxic cyanobacteria and drinking water: Impacts, detection, and treatment. Harmful Algae, 2016, 54, 174-193.	4.8	229
4	Kinetics and Mechanism of Pentachlorophenol Degradation by Sonication, Ozonation, and Sonolytic Ozonation. Environmental Science & Technology, 2000, 34, 1280-1285.	10.0	165
5	Photosensitized Degradation of Bisphenol A by Dissolved Organic Matterâ€. Environmental Science & Technology, 2004, 38, 5888-5894.	10.0	158
6	Chemical Bubble Dynamics and Quantitative Sonochemistry. Journal of Physical Chemistry A, 1998, 102, 6927-6934.	2.5	157
7	Sonolytic Decomposition of Ozone in Aqueous Solution:Â Mass Transfer Effects. Environmental Science & Technology, 1998, 32, 3941-3947.	10.0	122
8	Kinetics and Mechanism of Photoactivated Periodate Reaction with 4-Chlorophenol in Acidic Solution. Environmental Science & Technology, 2004, 38, 6875-6880.	10.0	120
9	Fulvic acid mediated photolysis of ibuprofen in water. Water Research, 2011, 45, 4449-4458.	11.3	108
10	Evidence of Air Dispersion: HFPOâ€“DA and PFOA in Ohio and West Virginia Surface Water and Soil near a Fluoropolymer Production Facility. Environmental Science & Technology, 2020, 54, 7175-7184.	10.0	104
11	Degradation of triethanolamine and chemical oxygen demand reduction in wastewater by photoactivated periodate. Water Environment Research, 1997, 69, 1112-1119.	2.7	85
12	Ultrasonic control of ceramic membrane fouling by particles: Effect of ultrasonic factors. Ultrasonics Sonochemistry, 2006, 13, 379-387.	8.2	85
13	Ultrasonic control of ceramic membrane fouling: Effect of particle characteristics. Water Research, 2006, 40, 840-850.	11.3	83
14	Sonolysis of synthetic sediment particles: particle characteristics affecting particle dissolution and size reduction. Ultrasonics Sonochemistry, 2002, 9, 181-188.	8.2	80
15	Combining COMSOL modeling with acoustic pressure maps to design sono-reactors. Ultrasonics Sonochemistry, 2016, 31, 490-498.	8.2	77
16	Sonochemical degradation of ciprofloxacin and ibuprofen in the presence of matrix organic compounds. Ultrasonics Sonochemistry, 2014, 21, 428-435.	8.2	73
17	Kinetics and Mechanism of Sonochemical Degradation of Pharmaceuticals in Municipal Wastewater. Environmental Science & Technology, 2014, 48, 9675-9683.	10.0	70
18	Ultrasonic control of ceramic membrane fouling caused by natural organic matter and silica particles. Journal of Membrane Science, 2006, 276, 135-144.	8.2	69

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19	Cleaning of particle-fouled membranes during cross-flow filtration using an embedded ultrasonic transducer system. Journal of Membrane Science, 2006, 283, 225-232.	8.2	61
20	Direct and indirect photolysis of polycyclic aromatic hydrocarbons in nitrateâ€rich surface waters. Environmental Toxicology and Chemistry, 2008, 27, 1643-1648.	4.3	57
21	Sonochemical Desorption and Destruction of 4-Chlorobiphenyl from Synthetic Sediments. Environmental Science & Technology, 2002, 36, 232-237.	10.0	50
22	Photosensitized degradation of caffeine: Role of fulvic acids and nitrate. Chemosphere, 2012, 86, 124-129.	8.2	49
23	Degradation of Alkylbenzene Sulfonate Surfactants by Pulsed Ultrasound. Journal of Physical Chemistry B, 2005, 109, 16203-16209.	2.6	47
24	Removal of mercury from sediment by ultrasound combined with biomass (transgenic Chlamydomonas) Tj ETQq0 0 0 rgBT /Overlock 10	8.2	45
25	Designing and characterizing a multi-stepped ultrasonic horn for enhanced sonochemical performance. Ultrasonics Sonochemistry, 2015, 27, 325-333.	8.2	43
26	Effect of Ultrasound Frequency on Pulsed Sonolytic Degradation of Octylbenzene Sulfonic Acid. Journal of Physical Chemistry B, 2008, 112, 852-858.	2.6	42
27	Ultrasonic control of UF membrane fouling by natural waters: Effects of calcium, pH, and fractionated natural organic matter. Journal of Membrane Science, 2012, 401-402, 232-240.	8.2	41
28	Analysis of sonolytic degradation products of azo dye Orange G using liquid chromatographyâ€“diode array detection-mass spectrometry. Ultrasonics Sonochemistry, 2011, 18, 1068-1076.	8.2	39
29	Factors Influencing Pharmaceutical and Personal Care Product Degradation in Aqueous Solution Using Pulsed Wave Ultrasound. Industrial & Engineering Chemistry Research, 2013, 52, 2824-2831.	3.7	38
30	Synergistic, aqueous PAH degradation by ultrasonically-activated persulfate depends on bulk temperature and physicochemical parameters. Ultrasonics Sonochemistry, 2020, 67, 105172.	8.2	38
31	Sonochemical destruction of free and metal-binding ethylenediaminetetraacetic acid. Water Research, 2003, 37, 3155-3163.	11.3	37
32	Photochemical acetochlor degradation induced by hydroxyl radical in Fe-amended wetland waters: Impact of pH and dissolved organic matter. Water Research, 2018, 132, 52-60.	11.3	37
33	Piezoceramic membrane with built-in ultrasonic defouling. Journal of Membrane Science, 2015, 494, 130-135.	8.2	36
34	In Situ EPR Spin Trapping and Competition Kinetics Demonstrate Temperature-Dependent Mechanisms of Synergistic Radical Production by Ultrasonically Activated Persulfate. Environmental Science & Technology, 2022, 56, 3729-3738.	10.0	34
35	Sonochemical reactions of dissolved organic matter. Research on Chemical Intermediates, 2004, 30, 735-753.	2.7	33
36	Sonochemical Degradation of Alkylbenzene Sulfonate Surfactants in Aqueous Mixtures. Journal of Physical Chemistry B, 2006, 110, 18385-18391.	2.6	31

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37	Using pulsed wave ultrasound to evaluate the suitability of hydroxyl radical scavengers in sonochemical systems. Ultrasonics Sonochemistry, 2013, 20, 990-996.	8.2	30
38	Effect of Fouling Conditions and Cake Layer Structure on the Ultrasonic Cleaning of Ceramic Membranes. Separation Science and Technology, 2006, 41, 3569-3584.	2.5	27
39	Ultrasonic Destruction of Surfactants: Application to Industrial Wastewaters. Water Environment Research, 2005, 77, 259-265.	2.7	26
40	Using photoactivated periodate to decompose TOC from hydrolysates of chemical warfare agents. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 194, 212-219.	3.9	26
41	Fast Photomineralization of Dissolved Organic Matter in Acid Mine Drainage Impacted Waters. Environmental Science & Technology, 2019, 53, 6273-6281.	10.0	25
42	Enhancing heat-transfer ability of drag reducing surfactant solutions with ultrasonic energy. Journal of Non-Newtonian Fluid Mechanics, 2003, 116, 71-93.	2.4	24
43	Sonolytic Desorption of Mercury from Aluminum Oxide. Environmental Science & Technology, 2005, 39, 1037-1044.	10.0	24
44	Exploring the effects of pulsed ultrasound at 205 and 616 kHz on the sonochemical degradation of octylbenzene sulfonate. Ultrasonics Sonochemistry, 2011, 18, 801-809.	8.2	22
45	Decomposition of hydrolysates of chemical warfare agents using photoactivated periodate. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 187, 311-318.	3.9	20
46	Forward Osmosisâ€“Membrane Distillation Process for Zero Liquid Discharge of Flue Gas Desulfurization Wastewater. Energy & Fuels, 2021, 35, 5130-5140.	5.1	20
47	Effects of Surface Active Properties on the Cavitational Degradation of Surfactant Contaminants. Industrial & Engineering Chemistry Research, 2004, 43, 5049-5056.	3.7	17
48	Characterization of polycyclic aromatic hydrocarbons (PAHs) on lime spray dryer (LSD) ash using different extraction methods. Chemosphere, 2006, 62, 265-274.	8.2	17
49	Sonolytic Desorption of Mercury from Aluminum Oxide:Â Effects of pH, Chloride, and Organic Matter. Environmental Science & Technology, 2007, 41, 779-784.	10.0	17
50	Isoproturon Reappearance after Photosensitized Degradation in the Presence of Triplet Ketones or Fulvic Acids. Environmental Science & Technology, 2016, 50, 12250-12257.	10.0	17
51	Combined ultrasound-ozone treatment for reutilization of primary effluentâ€”a preliminary study. Environmental Science and Pollution Research, 2021, 28, 700-710.	5.3	17
52	Formation of Lithium Phthalocyanine Nanotubes by Size Reduction Using Low- and High-Frequency Ultrasound. Chemistry of Materials, 2006, 18, 4183-4189.	6.7	15
53	Characterization and re-use potential of by-products generated from the Ohio State Carbonation and Ash Reactivation (OSCAR) process. Fuel, 2007, 86, 541-553.	6.4	15
54	Increasing the bioaccessibility of polycyclic aromatic hydrocarbons in sediment using ultrasound. Chemosphere, 2015, 122, 265-272.	8.2	14

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55	Effects of Pulsed Ultrasound on the Adsorption ofn-Alkyl Anionic Surfactants at the Gas/Solution Interface of Cavitation Bubbles. Journal of Physical Chemistry B, 2007, 111, 1361-1367.	2.6	13
56	Pilot-Scale Demonstration of the OSCAR Process for High-Temperature Multipollutant Control of Coal Combustion Flue Gas, Using Carbonated Fly Ash and Mesoporous Calcium Carbonate. Industrial & Engineering Chemistry Research, 2007, 46, 5051-5060.	3.7	12
57	Gaseous Mercury from Curing Concretes that Contain Fly Ash:Â Laboratory Measurements. Environmental Science & Technology, 2005, 39, 5689-5693.	10.0	10
58	Distribution of Polycyclic Aromatic Hydrocarbons in Lime Spray Dryer Ash. Energy & Fuels, 2005, 19, 1911-1918.	5.1	10
59	Sonochemical Dissolution of Cinnabar (Î±-HgS). Environmental Science & Technology, 2007, 41, 773-778.	10.0	10
60	Sonolytic reactions of phenanthrene in organic extraction solutions. Chemosphere, 2006, 65, 2268-2274.	8.2	9
61	Contaminant-mediated photobleaching of wetland chromophoric dissolved organic matter. Environmental Sciences: Processes and Impacts, 2014, 16, 2098-2107.	3.5	9
62	Variability of inorganic and organic constituents in lime spray dryer ash. Fuel, 2005, 84, 1820-1829.	6.4	8
63	Advancement of high power ultrasound technology for the destruction of surface active waterborne contaminants. Ultrasonics Sonochemistry, 2010, 17, 1021-1026.	8.2	8
64	Distribution of Arsenic and Mercury in Lime Spray Dryer Ash. Energy & Fuels, 2006, 20, 1521-1527.	5.1	7
65	Gaseous Mercury Release during Steam Curing of Aerated Concretes That Contain Fly Ash and Activated Carbon Sorbent. Energy & Fuels, 2008, 22, 3089-3095.	5.1	5
66	Effect of sediment particle size on polycyclic aromatic hydrocarbon bioaccessibility and degradation by ultrasound. Ultrasonics Sonochemistry, 2020, 68, 105203.	8.2	4
67	Using solid-phase microextraction during ultrasound reveals higher aqueous PAHs release from contaminated sediment. Ultrasonics Sonochemistry, 2022, 85, 105981.	8.2	4
68	The AEESP-EES Relationship After Five Years with EES as the Official Journal of AEESP. Environmental Engineering Science, 2019, 36, 1-1.	1.6	3
69	Fly Ash Properties and Mercury Sorbent Affect Mercury Release from Curing Concrete. Energy & Fuels, 2009, 23, 2035-2040.	5.1	2
70	The Effect of Different Particle Size from PAHs Contaminated Sediment by Ultrasonic Irradiation. Journal of Environmental Science International, 2010, 19, 379-387.	0.2	1