Kimberly E Carter

List of Publications by Year
in descending order

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Version: 2024-02-01

27 papers	2,499 citations	586496 16 h-index	620720 26 g-index
27 all docs	27 docs citations	27 times ranked	3309 citing authors

#	Article	IF	Citations
1	Evaluation of engineered sorbents for the sorption of mercury from contaminated bank soils: a column study. Environmental Science and Pollution Research, 2021, 28, 22651-22663.	2.7	3
2	Shale particle interactions with organic and inorganic hydraulic fracturing additives. Applied Geochemistry, 2021, 127, 104901.	1.4	4
3	Sustained release of persulfate from inert inorganic materials for groundwater remediation. Chemosphere, 2020, 259, 127508.	4.2	7
4	Hazardous substances as the dominant non-methane volatile organic compounds with potential emissions from liquid storage tanks during well fracturing: A modeling approach. Journal of Environmental Management, 2020, 268, 110715.	3.8	10
5	Surface Water Microbial Community Response to the Biocide 2,2-Dibromo-3-Nitrilopropionamide, Used in Unconventional Oil and Gas Extraction. Applied and Environmental Microbiology, 2019, 85, .	1.4	12
6	In situ transformation of hydraulic fracturing surfactants from well injection to produced water. Environmental Sciences: Processes and Impacts, 2019, 21, 1777-1786.	1.7	16
7	Understanding Electrochemically Activated Persulfate and Its Application to Ciprofloxacin Abatement. Environmental Science & Technology, 2018, 52, 5875-5883.	4.6	143
8	Furfural degradation through heat-activated persulfate: Impacts of simulated brine and elevated pressures. Chemical Engineering Journal, 2018, 353, 727-735.	6.6	34
9	Degradation of hydraulic fracturing additive 2-butoxyethanol using heat activated persulfate in the presence of shale rock. Chemosphere, 2018, 206, 398-404.	4.2	15
10	Modeling potential occupational inhalation exposures and associated risks of toxic organics from chemical storage tanks used in hydraulic fracturing using AERMOD. Environmental Pollution, 2017, 224, 300-309.	3.7	28
11	Characterization of the chemicals used in hydraulic fracturing fluids for wells located in the Marcellus Shale Play. Journal of Environmental Management, 2017, 200, 312-324.	3.8	36
12	Experimental insights into geochemical changes in hydraulically fractured Marcellus Shale. Applied Geochemistry, 2017, 76, 36-50.	1.4	94
13	Investigating the effects of heat activated persulfate on the degradation of furfural, a component of hydraulic fracturing fluid chemical additives. Chemical Engineering Journal, 2017, 327, 1021-1032.	6.6	50
14	Sustained persulfate activation using solid iron: Kinetics and application to ciprofloxacin degradation. Chemical Engineering Journal, 2017, 307, 650-660.	6.6	62
15	Extraction and recovery of 2-butoxyethanol from aqueous phases containing high saline concentration. Analytical Chemistry Research, 2016, 9, 1-7.	2.0	7
16	Adsorption of hydraulic fracturing fluid components 2-butoxyethanol and furfural onto granular activated carbon and shale rock. Chemosphere, 2016, 164, 585-592.	4.2	25
17	Activated persulfate for organic chemical degradation: A review. Chemosphere, 2016, 151, 178-188.	4.2	1,144
18	Water usage for natural gas production through hydraulic fracturing in the United States from 2008 to 2014. Journal of Environmental Management, 2016, 170, 152-159.	3.8	78

#	Article	IF	Citations
19	An approach for assessing engineering risk from shale gas wells in the United States. International Journal of Coal Geology, 2014, 126, 4-19.	1.9	113
20	Temporal Changes in Microbial Ecology and Geochemistry in Produced Water from Hydraulically Fractured Marcellus Shale Gas Wells. Environmental Science & Technology, 2014, 48, 6508-6517.	4.6	244
21	A method for direct, semi-quantitative analysis of gas phase samples using gas chromatographyâ€“inductively coupled plasma-mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 85, 34-44.	1.5	2
22	Hydraulic Fracturing and Organic Compounds - Uses, Disposal and Challenges. , 2013, , .		14
23	Calibration strategy for semi-quantitative direct gas analysis using inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2011, 66, 712-725.	1.5	3
24	Removal of Perfluorooctane and Perfluorobutane Sulfonate from Water via Carbon Adsorption and Ion Exchange. Separation Science and Technology, 2010, 45, 762-767.	1.3	107
25	Electrochemical Oxidation of Trichloroethylene Using Boron-Doped Diamond Film Electrodes. Environmental Science & Technology, 2009, 43, 8350-8354.	4.6	40
26	Oxidative Destruction of Perfluorooctane Sulfonate Using Boron-Doped Diamond Film Electrodes. Environmental Science & Technology, 2008, 42, 6111-6115.	4.6	193
27	Extending a classical EOS correlation to represent solidâ€“fluid phase equilibria. Fluid Phase Equilibria, 2006, 243, 151-155.	1.4	15