

Heather D Willauer

List of Publications by Citations

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29
papers

5,071
citations

18
h-index

30
g-index

30
ext. papers

5,360
ext. citations

6.4
avg, IF

5.03
L-index

#	Paper	IF	Citations
29	Characterization and comparison of hydrophilic and hydrophobic room temperature ionic liquids incorporating the imidazolium cation. <i>Green Chemistry</i> , 2001 , 3, 156-164	10	3198
28	Controlling the aqueous miscibility of ionic liquids: aqueous biphasic systems of water-miscible ionic liquids and water-structuring salts for recycle, metathesis, and separations. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6632-3	16.4	858
27	Solute Partitioning in Aqueous Biphasic Systems Composed of Polyethylene Glycol and Salt: The Partitioning of Small Neutral Organic Species. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 1892-1904	3.9	149
26	Phase Diagram Data for Several PEG + Salt Aqueous Biphasic Systems at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1230-1236	2.8	134
25	Aqueous Polymeric Solutions as Environmentally Benign Liquid/Liquid Extraction Media. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 2523-2539	3.9	123
24	Solvent Properties of Aqueous Biphasic Systems Composed of Polyethylene Glycol and Salt Characterized by the Free Energy of Transfer of a Methylene Group between the Phases and by a Linear Solvation Energy Relationship. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2591-2601	3.9	93
23	Modeling and kinetic analysis of CO ₂ hydrogenation using a Mn and K-promoted Fe catalyst in a fixed-bed reactor. <i>Journal of CO₂ Utilization</i> , 2013 , 3-4, 56-64	7.6	58
22	Potassium-Promoted Molybdenum Carbide as a Highly Active and Selective Catalyst for CO Conversion to CO. <i>ChemSusChem</i> , 2017 , 10, 2408-2415	8.3	47
21	The global potential for converting renewable electricity to negative-CO ₂ -emissions hydrogen. <i>Nature Climate Change</i> , 2018 , 8, 621-625	21.4	47
20	PARTITIONING OF AROMATIC MOLECULES IN AQUEOUS BIPHASIC SYSTEMS. <i>Separation Science and Technology</i> , 1999 , 34, 1069-1090	2.5	42
19	Mitigation of TNT and Destex explosion effects using water mist. <i>Journal of Hazardous Materials</i> , 2009 , 165, 1068-73	12.8	34
18	Feasibility of CO ₂ Extraction from Seawater and Simultaneous Hydrogen Gas Generation Using a Novel and Robust Electrolytic Cation Exchange Module Based on Continuous Electrodeionization Technology. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12192-12200	3.9	30
17	Analysis of inorganic and small organic ions with the capillary electrophoresis microchip. <i>Electrophoresis</i> , 2003 , 24, 2193-207	3.6	30
16	Alkali promoted tungsten carbide as a selective catalyst for the reverse water gas shift reaction. <i>Journal of CO₂ Utilization</i> , 2020 , 35, 38-46	7.6	30
15	The solvatochromic properties, ϵ and n , of PEG-salt aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4065-4070	3.6	27
14	Assessing the viability of K-Mo ₂ C for reverse water-gas shift scale-up: molecular to laboratory to pilot scale. <i>Energy and Environmental Science</i> , 2020 , 13, 2524-2539	35.4	26
13	Characterization of Hydrophilic and Hydrophobic Ionic Liquids: Alternatives to Volatile Organic Compounds for Liquid-Liquid Separations. <i>ACS Symposium Series</i> , 2002 , 289-308	0.4	24

12	Effects of Fine Water Mist on a Confined Blast. <i>Fire Technology</i> , 2012 , 48, 641-675	3	21
11	Elucidating the role of oxygen coverage in CO ₂ reduction on Mo ₂ C. <i>Catalysis Science and Technology</i> , 2017 , 7, 5521-5529	5.5	18
10	Development of an Electrolytic Cation Exchange Module for the Simultaneous Extraction of Carbon Dioxide and Hydrogen Gas from Natural Seawater. <i>Energy & Fuels</i> , 2017 , 31, 1723-1730	4.1	17
9	Development of an Electrochemical Acidification Cell for the Recovery of CO ₂ and H ₂ from Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9876-9882	3.9	17
8	Development of an Electrochemical Acidification Cell for the Recovery of CO ₂ and H ₂ from Seawater II. Evaluation of the Cell by Natural Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11254-11260	3.9	13
7	TEMPERATURE EFFECTS ON POLYMER-BASED AQUEOUS BIPHASIC EXTRACTION TECHNOLOGY IN THE PAPER PULPING PROCESS. <i>Separation Science and Technology</i> , 2001 , 36, 835-847	2.5	13
6	Incompatibility of Fischer-Tropsch Diesel with Petroleum and Soybean Biodiesel Blends. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7364-7367	3.9	7
5	Green Separation Science and Technology: Replacement of Volatile Organic Compounds in Industrial Scale Liquid-Liquid or Chromatographic Separations. <i>ACS Symposium Series</i> , 2000 , 206-221	0.4	6
4	Metal Ion Separations in Aqueous Biphasic Systems and Using Aqueous Biphasic Extraction Chromatography. <i>ACS Symposium Series</i> , 1999 , 79-100	0.4	4
3	Evaluation of CO ₂ Hydrogenation in a Modular Fixed-Bed Reactor Prototype. <i>Catalysts</i> , 2020 , 10, 970	4	3
2	Water in Solutions of Chaotropic and Kosmotropic Salts: A Differential Scanning Calorimetry Investigation. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4781-4792	2.8	2
1	Synthetic Fuel Development 2020 , 561-580		0