

Jessica A Allen

List of Publications by Year in descending order

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37
papers

961
citations

567144

15
h-index

454834

30
g-index

37
all docs

37
docs citations

37
times ranked

1283
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. <i>Science of the Total Environment</i> , 2018, 618, 1210-1223.	3.9	163
2	The Electrochemical Properties of Biochars and How They Affect Soil Redox Properties and Processes. <i>Agronomy</i> , 2015, 5, 322-340.	1.3	122
3	The electrochemical oxidation of aqueous sulfur dioxide: A critical review of work with respect to the hybrid sulfur cycle. <i>Electrochimica Acta</i> , 2010, 55, 573-591.	2.6	111
4	Synchrotron based NEXAFS study on nitrogen doped hydrothermal carbon: Insights into surface functionalities and formation mechanisms. <i>Carbon</i> , 2017, 114, 566-578.	5.4	72
5	Electrochemical aspects of the Hybrid Sulfur Cycle for large scale hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11376-11389.	3.8	37
6	Electrochemical Oxidation of Aqueous Sulfur Dioxide II. Comparative Studies on Platinum and Gold Electrodes. <i>Journal of the Electrochemical Society</i> , 2012, 159, F585-F593.	1.3	36
7	Prospects for solar only operation of the hybrid sulphur cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11596-11603.	3.8	35
8	Influence of selected coal contaminants on graphitic carbon electro-oxidation for application to the direct carbon fuel cell. <i>Journal of Power Sources</i> , 2014, 260, 140-149.	4.0	35
9	Nitrogen doped heat treated and activated hydrothermal carbon: NEXAFS examination of the carbon surface at different temperatures. <i>Carbon</i> , 2018, 128, 179-190.	5.4	34
10	Dynamic Electrodeposition of Manganese Dioxide: Temporal Variation in the Electrodeposition Mechanism. <i>Journal of the Electrochemical Society</i> , 2016, 163, H305-H312.	1.3	32
11	Observed electrochemical oscillations during the oxidation of aqueous sulfur dioxide on a sulfur modified platinum electrode. <i>Electrochimica Acta</i> , 2011, 56, 4224-4230.	2.6	23
12	Carbonate Reduction and the Properties and Applications of Carbon Formed Through Electrochemical Deposition in Molten Carbonates: A Review. <i>Electrochimica Acta</i> , 2015, 176, 1511-1521.	2.6	21
13	The properties and performance of carbon produced through the electrochemical reduction of molten carbonate: A study based on step potential electrochemical spectroscopy. <i>Electrochimica Acta</i> , 2018, 278, 340-351.	2.6	19
14	The Electrochemical Oxidation of Aqueous Sulfur Dioxide. <i>Journal of the Electrochemical Society</i> , 2010, 157, F111.	1.3	18
15	The effect of coal type and pyrolysis temperature on the electrochemical activity of coal at a solid carbon anode in molten carbonate media. <i>Journal of Power Sources</i> , 2015, 279, 384-393.	4.0	18
16	The impact of carbonate salts on char formation and gas evolution during the slow pyrolysis of biomass, cellulose, and lignin. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5987-6003.	2.5	18
17	Modification of Biochar Formation during Slow Pyrolysis in the Presence of Alkali Metal Carbonate Additives. <i>Energy & Fuels</i> , 2019, 33, 11235-11245.	2.5	15
18	Carbon electro-catalysis in the direct carbon fuel cell utilising alkali metal molten carbonates: A mechanistic review. <i>Journal of Power Sources</i> , 2020, 453, 227662.	4.0	15

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19	Thermal Investigation of a Doped Alkali-Metal Carbonate Ternary Eutectic for Direct Carbon Fuel Cell Applications. <i>Energy & Fuels</i> , 2015, 29, 5423-5433.	2.5	14
20	The Properties of Carbons Derived through the Electrolytic Reduction of Molten Carbonates under Varied Conditions: Part I. A Study Based on Step Potential Electrochemical Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2608-A2624.	1.3	13
21	Kinetic Analysis of the Anodic Carbon Oxidation Mechanism in a Molten Carbonate Medium. <i>Electrochimica Acta</i> , 2014, 129, 389-395.	2.6	11
22	Optimized Electrolytic Carbon and Electrolyte Systems for Electrochemical Capacitors. <i>ChemElectroChem</i> , 2020, 7, 266-282.	1.7	11
23	An investigation of mineral distribution in coking and thermal coal chars as fuels for the direct carbon fuel cell. <i>Fuel</i> , 2018, 217, 11-20.	3.4	10
24	Influence of counter ions of ammonium for nitrogen doping and carbon properties in hydrothermal carbonization: characterization and supercapacitor performance. <i>Materials Advances</i> , 2021, 2, 384-397.	2.6	10
25	Molten Carbonate Composition Effects on Carbon Electro-Oxidation at a Solid Anode Interface. <i>Journal of the Electrochemical Society</i> , 2015, 162, F76-F83.	1.3	9
26	Carbon Gasification from a Molten Carbonate Eutectic. <i>Energy Technology</i> , 2019, 7, 1900602.	1.8	8
27	Thermochemical Conversion of Biomass in the Presence of Molten Alkali-Metal Carbonates under Reducing Environments of N ₂ and CO ₂ . <i>Energies</i> , 2020, 13, 5395.	1.6	8
28	Analysis of theoretical efficiency in a model 10â€kW direct carbon fuel cell using a coal based carbonate slurry. <i>Electrochimica Acta</i> , 2020, 329, 135131.	2.6	6
29	Predicting Slow Pyrolysis Process Outcomes with Simplified Empirical Correlations for a Consistent Higher Heating Temperature: Biochar Yield and Ash Content. <i>Energy & Fuels</i> , 2020, 34, 14223-14231.	2.5	6
30	Characterization of carbonate derived carbons through electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2020, 338, 135847.	2.6	6
31	Sodium-ion battery anodes from carbon depositions. <i>Electrochimica Acta</i> , 2021, 379, 138109.	2.6	6
32	Gas Atmosphere Effects Over the Anode Compartment of a Tubular Direct Carbon Fuel Cell Module. <i>Energy & Fuels</i> , 2019, 33, 7901-7907.	2.5	5
33	Physical characteristics of capacitive carbons derived from the electrolytic reduction of alkali metal carbonate molten salts. <i>RSC Advances</i> , 2019, 9, 36771-36787.	1.7	5
34	Thermal and electrochemical impact of kaolin on a direct carbon fuel cell. <i>Fuel</i> , 2021, 291, 120215.	3.4	3
35	Electrochemical Ammonia: Power to Ammonia Ratio and Balance of Plant Requirements for Two Different Electrolysis Approaches. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	1.3	3
36	The interplay between ternary molten carbonate and biomaterials during pressurized slow pyrolysis. <i>Reaction Chemistry and Engineering</i> , 0, , .	1.9	3

#	ARTICLE	IF	CITATIONS
37	Silicate Formation in a Ternary Alkali Metal Carbonate Melt. Energy & Fuels, 2019, 33, 12008-12015.	2.5	0