

Heather A Andreas

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,040
citations

567281

15
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

2747
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge redistribution and electrode history impact galvanostatic charging/discharging and associated figures of merit. <i>Journal of Power Sources</i> , 2020, 446, 227354.	7.8	14
2	Cyclic voltammetry of porous carbon is impacted by charge redistribution – understanding the mechanism and effects on performance metrics. <i>Carbon</i> , 2020, 170, 245-255.	10.3	7
3	Optimized Double Manganese Oxide Deposition for Enhanced Electrochemical Capacitor Performance. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080503.	2.9	3
4	Using pH Indicator To Demonstrate Supercapacitor Reactions. <i>Journal of Chemical Education</i> , 2019, 96, 1778-1781.	2.3	0
5	Minimizing the Nyquist-plot semi-circle of pseudocapacitive manganese oxides through modification of the oxide-substrate interface resistance. <i>Journal of Power Sources</i> , 2019, 426, 93-96.	7.8	61
6	Mechanisms of Enhanced Hemoglobin Electroactivity on Carbon Electrodes upon Exposure to a Water-Miscible Primary Alcohol. <i>Analytical Chemistry</i> , 2018, 90, 5764-5772.	6.5	2
7	Improved manganese oxide electrochemical capacitor performance arising from a systematic study of film storage/drying effects on electrochemical properties. <i>Electrochimica Acta</i> , 2018, 292, 147-156.	5.2	8
8	Bringing Real-World Energy-Storage Research into a Second-Year Physical-Chemistry Lab Using a MnO ₂ -Based Supercapacitor. <i>Journal of Chemical Education</i> , 2018, 95, 2028-2033.	2.3	7
9	Enhanced hemoglobin electroactivity on carbon in electrolytes or binders containing water-miscible primary alcohols. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 425-432.	7.8	0
10	Identification and isolation of carbon oxidation and charge redistribution as self-discharge mechanisms in reduced graphene oxide electrochemical capacitor electrodes. <i>Carbon</i> , 2018, 139, 299-308.	10.3	32
11	The influence of carbon-oxygen surface functional groups of carbon electrodes on the electrochemical reduction of hemoglobin. <i>Carbon</i> , 2017, 112, 230-237.	10.3	10
12	Carbon oxidation and its influence on self-discharge in aqueous electrochemical capacitors. <i>Carbon</i> , 2016, 110, 232-242.	10.3	51
13	Impact of Electrochemical Impedance Spectroscopy Experimental Variables on Adsorbed Protein Films, as Illustrated by Bovine Serum Albumin. <i>Electroanalysis</i> , 2015, 27, 1944-1951.	2.9	1
14	Self-Discharge in Electrochemical Capacitors: A Perspective Article. <i>Journal of the Electrochemical Society</i> , 2015, 162, A5047-A5053.	2.9	203
15	Self-discharge in Manganese Oxide Electrochemical Capacitor Electrodes in Aqueous Electrolytes with Comparisons to Faradaic and Charge Redistribution Models. <i>Electrochimica Acta</i> , 2014, 140, 116-124.	5.2	53
16	Method for equivalent circuit determination for electrochemical impedance spectroscopy data of protein adsorption on solid surfaces. <i>Electrochimica Acta</i> , 2014, 129, 290-299.	5.2	54
17	Temperature-Dependent Structure and Electrochemical Behavior of RuO ₂ /Carbon Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19117-19128.	3.1	45
18	Examination of Water Electrolysis and Oxygen Reduction As Self-Discharge Mechanisms for Carbon-Based, Aqueous Electrolyte Electrochemical Capacitors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4283-4288.	3.1	48

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19	Prediction of the self-discharge profile of an electrochemical capacitor electrode in the presence of both activation-controlled discharge and charge redistribution. <i>Journal of Power Sources</i> , 2010, 195, 929-935.	7.8	53
20	Standardization of the Boehm titration. Part I. CO ₂ expulsion and endpoint determination. <i>Carbon</i> , 2010, 48, 1252-1261.	10.3	526
21	Standardization of the Boehm titration: Part II. Method of agitation, effect of filtering and dilute titrant. <i>Carbon</i> , 2010, 48, 3313-3322.	10.3	255
22	Pore Shape Affects Spontaneous Charge Redistribution in Small Pores. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12030-12038.	3.1	49
23	Effects of charge redistribution on self-discharge of electrochemical capacitors. <i>Electrochimica Acta</i> , 2009, 54, 3568-3574.	5.2	129
24	Effect of Fe-contamination on rate of self-discharge in carbon-based aqueous electrochemical capacitors. <i>Journal of Power Sources</i> , 2009, 187, 275-283.	7.8	68
25	Examination of the double-layer capacitance of a high specific-area C-cloth electrode as titrated from acidic to alkaline pHs. <i>Electrochimica Acta</i> , 2006, 51, 6510-6520.	5.2	361