

Katherine Eh Hurst

List of Publications by Year in descending order

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32
papers

979
citations

471509

17
h-index

642732

23
g-index

35
all docs

35
docs citations

35
times ranked

1919
citing authors

#	ARTICLE	IF	CITATIONS
1	Record High Hydrogen Storage Capacity in the Metal-Organic Framework Ni ₂ (m-dobdc) at Near-Ambient Temperatures. <i>Chemistry of Materials</i> , 2018, 30, 8179-8189.	6.7	182
2	Large n- and p-type thermoelectric power factors from doped semiconducting single-walled carbon nanotube thin films. <i>Energy and Environmental Science</i> , 2017, 10, 2168-2179.	30.8	172
3	Rheological Investigation on the Microstructure of Fuel Cell Catalyst Inks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43610-43622.	8.0	96
4	Mercury Underpotential Deposition to Determine Iridium and Iridium Oxide Electrochemical Surface Areas. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3051-F3056.	2.9	63
5	Unbiased solar H ₂ production with current density up to 23 mA cm ⁻² by Swiss-cheese black Si coupled with wastewater bioanode. <i>Energy and Environmental Science</i> , 2019, 12, 1088-1099.	30.8	48
6	ZIF 67 Based Highly Active Electrocatalysts as Oxygen Electrodes in Water Electrolyzer. <i>ACS Applied Energy Materials</i> , 2019, 2, 5568-5576.	5.1	35
7	Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. <i>ACS Catalysis</i> , 2011, 1, 1307-1315.	11.2	32
8	Spectroscopic Identification of Hydrogen Spillover Species in Ruthenium-Modified High Surface Area Carbons by Diffuse Reflectance Infrared Fourier Transform Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26744-26755.	3.1	32
9	Observation of an Intermediate to H ₂ Binding in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 14884-14894.	13.7	32
10	Phenyl/Perfluorophenyl Stacking Interactions Enhance Structural Order in Two-Dimensional Covalent Organic Frameworks. <i>Crystal Growth and Design</i> , 2018, 18, 4160-4166.	3.0	31
11	Atomic Layer Deposition of Platinum Nanoparticles on Titanium Oxide and Tungsten Oxide Using Platinum(II) Hexafluoroacetylacetonate and Formalin as the Reactants. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8960-8970.	3.1	30
12	Hydrogen adsorption properties of platinum decorated hierarchically structured templated carbons. <i>Microporous and Mesoporous Materials</i> , 2013, 177, 66-74.	4.4	27
13	An International Laboratory Comparison Study of Volumetric and Gravimetric Hydrogen Adsorption Measurements. <i>ChemPhysChem</i> , 2019, 20, 1997-2009.	2.1	26
14	Recommended volumetric capacity definitions and protocols for accurate, standardized and unambiguous metrics for hydrogen storage materials. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	25
15	Core-shell composite of SiCN and multiwalled carbon nanotubes from toluene dispersion. <i>Journal of Materials Science</i> , 2010, 45, 4251-4254.	3.7	22
16	Thermal Activation of a Copper-Loaded Covalent Organic Framework for Near-Ambient Temperature Hydrogen Storage and Delivery. , 2020, 2, 227-232.		21
17	An international multi-laboratory investigation of carbon-based hydrogen sorbent materials. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	20
18	A dynamic calibration technique for temperature programmed desorption spectroscopy. <i>Review of Scientific Instruments</i> , 2013, 84, 025103.	1.3	17

#	ARTICLE	IF	CITATIONS
19	Electronic structure study of the CdS buffer layer in CIGS solar cells by X-ray absorption spectroscopy: Experiment and theory. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 275-283.	6.2	17
20	Understanding interfacial chemistry of positive bias high-voltage degradation in photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110959.	6.2	13
21	UV-Induced Degradation of High-Efficiency Solar Cells with Different Architectures. , 2020, , .		11
22	In situ small-angle x-ray scattering analysis of improved catalyst support interactions through nitrogen modification. <i>MRS Communications</i> , 2012, 2, 85-89.	1.8	10
23	Transient Evolution of the Built-in Field at Junctions of GaAs. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40339-40346.	8.0	10
24	A core-level spectroscopic investigation of the preparation and electrochemical cycling of nitrogen-modified carbon as a model catalyst support. <i>Journal of Materials Chemistry A</i> , 2016, 4, 443-450.	10.3	3
25	The Effect of Material Properties on Oxygen Evolution Activity and Assessing Half-Cell Screening as a Predictive Tool in Electrolysis. <i>Journal of the Electrochemical Society</i> , 2021, 168, 104503.	2.9	3
26	Method to determine the absorptance of thin films for photovoltaic technology. , 2010, , .		1
27	Soft X-ray absorption spectroscopy investigation of the surface chemistry and treatments of copper indium gallium diselenide (CIGS). <i>Solar Energy Materials and Solar Cells</i> , 2017, 160, 390-397.	6.2	0
28	Controlled Pt Coverage for Extended Thin Film Catalyst ORR Studies via Templated Gas Phase Synthesis. <i>ECS Meeting Abstracts</i> , 2012, , .	0.0	0
29	(Invited) Hydrogen Storage Measurements; Protocols and Reproducibility. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
30	Enhanced Activity of Extended Surface Platinum Nickel Nanowires for the Oxygen Reduction Reaction. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
31	Interfacial Characterization of Positive Bias Voltage Degradation in PV Modules. , 2020, , .		0
32	The Effect of Material Priorities on Oxygen Evolution Activity and Assessing Half-Cell Screening As a Predictive Tool in Electrolysis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2476-2476.	0.0	0