

Thomas Gennett

List of Publications by Year in descending order

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44
papers

1,767
citations

430874

18
h-index

315739

38
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50
all docs

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docs citations

50
times ranked

2787
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive Vapor-Phase Additives toward Destabilizing $\hat{\text{I}}^3\text{-Mg}(\text{BH}_{4})_{2}$ for Improved Hydrogen Release. ACS Applied Energy Materials, 2022, 5, 1690-1700.	5.1	5
2	Thermal stability and structural studies on the mixtures of $\text{Mg}(\text{BH}_{4})_{2}$ and glymes. Dalton Transactions, 2022, 51, 7268-7273.	3.3	2
3	Fluorescent Probe of Aminopolymer Mobility in Bulk and in Nanoconfined Direct Air CO_{2} Capture Supports. Journal of Physical Chemistry C, 2022, 126, 10419-10428.	3.1	5
4	$\text{Al}_{2}\text{O}_{3}$ Atomic Layer Deposition on Nanostructured $\hat{\text{I}}^3\text{-Mg}(\text{BH}_{4})_{2}$ for H_{2} Storage. ACS Applied Energy Materials, 2021, 4, 1150-1162.	5.1	13
5	$\text{Mg}(\text{BH}_{4})_{2}$ -Based Hybrid Metal-Organic Borohydride System Exhibiting Enhanced Chemical Stability in Melt. ACS Applied Energy Materials, 2021, 4, 1704-1713.	5.1	5
6	Thermal Conversion of Unsolvated $\text{Mg}(\text{B}_{3}\text{H}_{8})_{2}$ to BH_{4}^{\ominus} in the Presence of MgH_{2} . ACS Applied Energy Materials, 2021, 4, 3737-3747.	5.1	17
7	Observation of an Intermediate to H_{2} Binding in a Metal-Organic Framework. Journal of the American Chemical Society, 2021, 143, 14884-14894.	13.7	32
8	Additive Destabilization of Porous Magnesium Borohydride Framework with Core-Shell Structure. Small, 2021, 17, e2101989.	10.0	6
9	Fine-Tuning a Robust Metal-Organic Framework toward Enhanced Clean Energy Gas Storage. Journal of the American Chemical Society, 2021, 143, 18838-18843.	13.7	79
10	Colloidal three-dimensional covalent organic frameworks and their application as porous liquids. Journal of Materials Chemistry A, 2020, 8, 23455-23462.	10.3	37
11	Thermal Activation of a Copper-Loaded Covalent Organic Framework for Near-Ambient Temperature Hydrogen Storage and Delivery. , 2020, 2, 227-232.		21
12	Physi-Sorption of H_{2} on Pure and Boron-Doped Graphene Monolayers: A Dispersion-Corrected DFT Study. Journal of Carbon Research, 2020, 6, 15.	2.7	13
13	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. Advanced Materials, 2019, 31, e1904252.	21.0	10
14	An International Laboratory Comparison Study of Volumetric and Gravimetric Hydrogen Adsorption Measurements. ChemPhysChem, 2019, 20, 1997-2009.	2.1	26
15	Characterization of Complex Interactions at the Gas-Solid Interface with in Situ Spectroscopy: The Case of Nitrogen-Functionalized Carbon. Journal of Physical Chemistry C, 2019, 123, 9074-9086.	3.1	17
16	Record High Hydrogen Storage Capacity in the Metal-Organic Framework $\text{Ni}_{2}(\text{dobdc})$ at Near-Ambient Temperatures. Chemistry of Materials, 2018, 30, 8179-8189.	6.7	182
17	The impact of radical loading and oxidation on the conformation of organic radical polymers by small angle neutron scattering. Journal of Materials Chemistry A, 2018, 6, 15659-15667.	10.3	13
18	An assessment of strategies for the development of solid-state adsorbents for vehicular hydrogen storage. Energy and Environmental Science, 2018, 11, 2784-2812.	30.8	162

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19	Spectroscopic investigation of nitrogen-functionalized carbon materials. <i>Surface and Interface Analysis</i> , 2016, 48, 283-292.	1.8	16
20	Development of solution-processed nanowire composites for opto-electronics. <i>MRS Communications</i> , 2016, 6, 341-347.	1.8	3
21	Molecular Dynamics Simulation Study of Solvent and State of Charge Effects on Solid-Phase Structure and Counterion Binding in a Nitroxide Radical Containing Polymer Energy Storage Material. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25639-25646.	3.1	23
22	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
23	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
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	Confirmation of the Dominant Defect Mechanism in Amorphous In-Zn-O Through the Application of <i>In Situ</i> Brouwer Analysis. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2099-2103.	3.8	8
26	Close Packing of Nitroxide Radicals in Stable Organic Radical Polymeric Materials. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1414-1419.	4.6	44
27	Water-Mediated Cooperative Migration of Chemisorbed Hydrogen on Graphene. <i>Physical Review Letters</i> , 2014, 112, 076101.	7.8	16
28	Fabrication, electrical and optical properties of silver, indium tin oxide (ITO), and indium zinc oxide (IZO) nanostructure arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 831-838.	1.8	20
29	Nitrogen: unraveling the secret to stable carbon-supported Pt-alloy electrocatalysts. <i>Energy and Environmental Science</i> , 2013, 6, 2957.	30.8	99
30	Hydrogen adsorption properties of platinum decorated hierarchically structured templated carbons. <i>Microporous and Mesoporous Materials</i> , 2013, 177, 66-74.	4.4	27
31	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
32	Manipulation of Hydrogen Binding Energy and Desorption Kinetics by Boron Doping of High Surface Area Carbon. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26138-26143.	3.1	7
33	Radio-frequency superimposed direct current magnetron sputtered Ga:ZnO transparent conducting thin films. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	13
34	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
35	Reactions and reversible hydrogenation of single-walled carbon nanotube anions. <i>Journal of Materials Research</i> , 2012, 27, 2806-2811.	2.6	2
36	Tuning Carbon-Based Fuel Cell Catalyst Support Structures via Nitrogen Functionalization. I. Investigation of Structural and Compositional Modification of Highly Oriented Pyrolytic Graphite Model Catalyst Supports as a Function of Nitrogen Implantation Dose. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13667-13675.	3.1	76

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37	Tuning Carbon-Based Fuel Cell Catalyst Support Structures via Nitrogen Functionalization. II. Investigation of Durability of Pt-Ru Nanoparticles Supported on Highly Oriented Pyrolytic Graphite Model Catalyst Supports As a Function of Nitrogen Implantation Dose. Journal of Physical Chemistry C, 2011, 115, 13676-13684.	3.1	54
38	Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. ACS Catalysis, 2011, 1, 1307-1315.	11.2	32
39	Superimposed RF/DC magnetron sputtering of transparent Ga:ZnO with high conductivity for photovoltaic contacts applications. , 2010, , .		0
40	Enhancement of Pt and Pt-alloy fuel cell catalyst activity and durability via nitrogen-modified carbon supports. Energy and Environmental Science, 2010, 3, 1437.	30.8	586
41	Novel transparent conducting barriers for photovoltaics. , 2010, , .		2
42	Humidity-resistant high-conductivity amorphous-InZnO transparent conductors. , 2009, , .		2
43	Mechanism of Hydrogen Storage on Reduced Carbon Single-Walled Nanotubes. Materials Research Society Symposia Proceedings, 2008, 1098, 1.	0.1	0
44	Excimer laser treatment of carbon nanotubes. , 2006, , .		0