

Angela D Lueking

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,609
citations

361045

20
h-index

288905

40
g-index

46
all docs

46
docs citations

46
times ranked

1943
citing authors

#	ARTICLE	IF	CITATIONS
1	UV and chemical modifications of polymer of Intrinsic Microporosity 1 to develop vibrational spectroscopic probes of surface chemistry and porosity. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 29-35.	2.2	16
2	Observation and simulation of hydrogen storage via spillover. <i>Current Opinion in Chemical Engineering</i> , 2018, 21, 116-121.	3.8	22
3	<i>In situ</i> vibrational spectroscopy of adsorbed nitrogen in porous carbon materials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15411-15418.	1.3	7
4	Energy and mass balances related to climate change and remediation. <i>Science of the Total Environment</i> , 2017, 590-591, 416-429.	3.9	10
5	Oxygen-selective adsorption in RPM3-Zn metal organic framework. <i>Chemical Engineering Science</i> , 2017, 165, 122-130.	1.9	7
6	High-Pressure Reactivity of Triptycene Probed by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11035-11042.	1.2	11
7	A generalized adsorption-phase transition model to describe adsorption rates in flexible metal organic framework RPM3-Zn. <i>Dalton Transactions</i> , 2016, 45, 4242-4257.	1.6	12
8	Corresponding states interpretation of adsorption in gate-opening metal-organic framework Cu(dhbc) ₂ (4,4'-bpy). <i>Journal of Colloid and Interface Science</i> , 2015, 446, 177-184.	5.0	8
9	Influence of gas packing and orientation on FTIR activity for CO chemisorption to the Cu paddlewheel. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26766-26776.	1.3	24
10	Hydrogen Storage with Spectroscopic Identification of Chemisorption Sites in Cu-TDPAT via Spillover from a Pt/Activated Carbon Catalyst. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26750-26763.	1.5	20
11	Stability and hydrogen adsorption of metal-organic frameworks prepared via different catalyst doping methods. <i>Journal of Catalysis</i> , 2014, 318, 128-142.	3.1	29
12	Design of high pressure differential volumetric adsorption measurements with increased accuracy. <i>Adsorption</i> , 2013, 19, 1211-1234.	1.4	16
13	Evidence for Ambient-Temperature Reversible Catalytic Hydrogenation in Pt-doped Carbons. <i>Nano Letters</i> , 2013, 13, 137-141.	4.5	36
14	Atomic Hydrogen Diffusion on Doped and Chemically Modified Graphene. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6312-6319.	1.5	25
15	Gas Adsorption in Novel Environments, Including Effects of Pore Relaxation. <i>Journal of Physics: Conference Series</i> , 2012, 400, 012005.	0.3	0
16	Hydrogenation of CuBTC Framework with the Introduction of a PtC Hydrogen Spillover Catalyst. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3477-3485.	1.5	30
17	Gas Adsorption in Novel Environments, Including Effects of Pore Relaxation. <i>Journal of Low Temperature Physics</i> , 2012, 166, 231-241.	0.6	3
18	Effect of Surface Oxygen Groups and Water on Hydrogen Spillover in Pt-Doped Activated Carbon. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4273-4282.	1.5	78

#	ARTICLE	IF	CITATIONS
19	Effect of Time, Temperature, and Kinetics on the Hysteretic Adsorption-Desorption of H ₂ , Ar, and N ₂ in the Metal-Organic Framework Zn ₂ (bpdca) ₂ (bpee). Langmuir, 2011, 27, 14169-14179.	1.6	23
20	Hydrogen Spillover Effect of Pt-Doped Activated Carbon Studied by Inelastic Neutron Scattering. Journal of Physical Chemistry Letters, 2011, 2, 2322-2325.	2.1	51
21	The deconvolution of the thermal, dilution, and chemical effects of exhaust gas recirculation (EGR) on the reactivity of engine and flame soot. Combustion and Flame, 2011, 158, 1696-1704.	2.8	82
22	Imbibition Transition: Gas Intercalation Between Graphene and a Solid Surface. Journal of Low Temperature Physics, 2011, 163, 26-33.	0.6	6
23	Tests of Pore-Size Distributions Deduced from Inversion of Simulated and Real Adsorption Data. Journal of Low Temperature Physics, 2009, 157, 410-428.	0.6	24
24	The effect of calcination on reactive milling of anthracite as potential precursor for graphite production. Fuel Processing Technology, 2009, 90, 1515-1523.	3.7	20
25	Enhanced Oxidative Reactivity for Anthracite Coal via a Reactive Ball Milling Pretreatment Step. Energy & Fuels, 2009, 23, 4318-4324.	2.5	2
26	Morphological, Structural, and Chemical Effects in Response of Novel Carbide Derived Carbon Sensor to NH ₃ , N ₂ O, and Air. Langmuir, 2009, 25, 582-588.	1.6	18
27	Morphology and porosity enhancement of graphite nanofibers through chemical etching. Microporous and Mesoporous Materials, 2008, 113, 178-186.	2.2	11
28	Role of Carbon Order in Structural Transformations and Hydrogen Evolution Induced by Reactive Ball Milling in Cyclohexene. Journal of Physical Chemistry C, 2008, 112, 17427-17435.	1.5	6
29	A corresponding states principle for physisorption and deviations for quantum fluids. Molecular Physics, 2008, 106, 1579-1585.	0.8	14
30	Commensurate phases of gases adsorbed on carbon nanotubes. Physical Review B, 2007, 75, .	1.1	14
31	Reversible high pressure sp ² →sp ³ transformations in carbon. Phase Transitions, 2007, 80, 1033-1038.	0.6	8
32	Hydrogen Uptake of Platinum-Doped Graphite Nanofibers and Stochastic Analysis of Hydrogen Spillover. Journal of Physical Chemistry C, 2007, 111, 1788-1800.	1.5	41
33	Vibrational modes of 4He and 3H_2 gases adsorbed on carbon nanotubes. Physical Review B, 2007, 76, .	1.1	3
34	Mechanically milled coal and magnesium composites for hydrogen storage. Carbon, 2007, 45, 805-820.	5.4	33
35	Structural characterization of exfoliated graphite nanofibers. Carbon, 2007, 45, 751-759.	5.4	18
36	The effect of HCl and NaOH treatment on structural transformations in a ball-milled anthracite after thermal and chemical processing. Carbon, 2007, 45, 2297-2306.	5.4	19

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37	Combined Hydrogen Production and Storage with Subsequent Carbon Crystallization. Journal of the American Chemical Society, 2006, 128, 7758-7760.	6.6	38
38	Effect of Expanded Graphite Lattice in Exfoliated Graphite Nanofibers on Hydrogen Storage. Journal of Physical Chemistry B, 2005, 109, 12710-12717.	1.2	98
39	Hydrogen spillover to enhance hydrogen storage—study of the effect of carbon physicochemical properties. Applied Catalysis A: General, 2004, 265, 259-268.	2.2	282
40	Hydrogen Storage in Graphite Nanofibers: Effect of Synthesis Catalyst and Pretreatment Conditions. Langmuir, 2004, 20, 714-721.	1.6	90
41	Hydrogen storage in carbon nanotubes: Residual metal content and pretreatment temperature. AIChE Journal, 2003, 49, 1556-1568.	1.8	76
42	Hydrogen Spillover from a Metal Oxide Catalyst onto Carbon Nanotubes—Implications for Hydrogen Storage. Journal of Catalysis, 2002, 206, 165-168.	3.1	203
43	Relationship of Soil Organic Matter Characteristics to Organic Contaminant Sequestration and Bioavailability. Journal of Environmental Quality, 2000, 29, 317-323.	1.0	66