Angela D Lueking

List of Publications by Year
in descending order

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	Hydrogen spillover to enhance hydrogen storageâ€"study of the effect of carbon physicochemical properties. Applied Catalysis A: General, 2004, 265, 259-268.	2.2	282
2	Hydrogen Spillover from a Metal Oxide Catalyst onto Carbon Nanotubesâ€"Implications for Hydrogen Storage. Journal of Catalysis, 2002, 206, 165-168.	3.1	203
3	Effect of Expanded Graphite Lattice in Exfoliated Graphite Nanofibers on Hydrogen Storage. Journal of Physical Chemistry B, 2005, 109, 12710-12717.	1.2	98
4	Hydrogen Storage in Graphite Nanofibers:Â Effect of Synthesis Catalyst and Pretreatment Conditions. Langmuir, 2004, 20, 714-721.	1.6	90
5	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
6	Effect of Surface Oxygen Groups and Water on Hydrogen Spillover in Pt-Doped Activated Carbon. Journal of Physical Chemistry C, 2011, 115, 4273-4282.	1.5	78
7	Hydrogen storage in carbon nanotubes: Residual metal content and pretreatment temperature. AICHE Journal, 2003, 49, 1556-1568.	1.8	76
8	Relationship of Soil Organic Matter Characteristics to Organic Contaminant Sequestration and Bioavailability. Journal of Environmental Quality, 2000, 29, 317-323.	1.0	66
9	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
10	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
11	Combined Hydrogen Production and Storage with Subsequent Carbon Crystallization. Journal of the American Chemical Society, 2006, 128, 7758-7760.	6.6	38
12	Evidence for Ambient-Temperature Reversible Catalytic Hydrogenation in Pt-doped Carbons. Nano Letters, 2013, 13, 137-141.	4.5	36
13	Mechanically milled coal and magnesium composites for hydrogen storage. Carbon, 2007, 45, 805-820.	5.4	33
14	Hydrogenation of CuBTC Framework with the Introduction of a PtC Hydrogen Spillover Catalyst. Journal of Physical Chemistry C, 2012, 116, 3477-3485.	1.5	30
15	Stability and hydrogen adsorption of metalâ€"organic frameworks prepared via different catalyst doping methods. Journal of Catalysis, 2014, 318, 128-142.	3.1	29
16	Atomic Hydrogen Diffusion on Doped and Chemically Modified Graphene. Journal of Physical Chemistry C, 2013, 117, 6312-6319.	1.5	25
17	Tests of Pore-Size Distributions Deduced fromÂInversion of Simulated and Real Adsorption Data. Journal of Low Temperature Physics, 2009, 157, 410-428.	0.6	24
18	Influence of gas packing and orientation on FTIR activity for CO chemisorption to the Cu paddlewheel. Physical Chemistry Chemical Physics, 2015, 17, 26766-26776.	1.3	24

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19	Effect of Time, Temperature, and Kinetics on the Hysteretic Adsorptionâ€“Desorption of H₂, Ar, and N₂ in the Metalâ€“Organic Framework Zn₂(bpdc)₂(bpee). Langmuir, 2011, 27, 14169-14179.	1.6	23
20	Observation and simulation of hydrogen storage via spillover. Current Opinion in Chemical Engineering, 2018, 21, 116-121.	3.8	22
21	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
22	Hydrogen Storage with Spectroscopic Identification of Chemisorption Sites in Cu-TDPAT via Spillover from a Pt/Activated Carbon Catalyst. Journal of Physical Chemistry C, 2014, 118, 26750-26763.	1.5	20
23	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
24	Structural characterization of exfoliated graphite nanofibers. Carbon, 2007, 45, 751-759.	5.4	18
25	Morphological, Structural, and Chemical Effects in Response of Novel Carbide Derived Carbon Sensor to NH₃, N₂O, and Air. Langmuir, 2009, 25, 582-588.	1.6	18
26	Design of high pressure differential volumetric adsorption measurements with increased accuracy. Adsorption, 2013, 19, 1211-1234.	1.4	16
27	UV and chemical modifications of polymer of Intrinsic Microporosity 1 to develop vibrational spectroscopic probes of surface chemistry and porosity. Microporous and Mesoporous Materials, 2019, 277, 29-35.	2.2	16
28	Commensurate phases of gases adsorbed on carbon nanotubes. Physical Review B, 2007, 75, .	1.1	14
29	A corresponding states principle for physisorption and deviations for quantum fluids. Molecular Physics, 2008, 106, 1579-1585.	0.8	14
30	A generalized adsorption-phase transition model to describe adsorption rates in flexible metal organic framework RPM3-Zn. Dalton Transactions, 2016, 45, 4242-4257.	1.6	12
31	Morphology and porosity enhancement of graphite nanofibers through chemical etching. Microporous and Mesoporous Materials, 2008, 113, 178-186.	2.2	11
32	High-Pressure Reactivity of Triptycene Probed by Raman Spectroscopy. Journal of Physical Chemistry B, 2016, 120, 11035-11042.	1.2	11
33	Energy and mass balances related to climate change and remediation. Science of the Total Environment, 2017, 590-591, 416-429.	3.9	10
34	Reversible high pressure sp2â€“sp3transformations in carbon. Phase Transitions, 2007, 80, 1033-1038.	0.6	8
35	Corresponding states interpretation of adsorption in gate-opening metalâ€“organic framework Cu(dhbc)2(4,4â€²-bpy). Journal of Colloid and Interface Science, 2015, 446, 177-184.	5.0	8
36	Oxygen-selective adsorption in RPM3-Zn metal organic framework. Chemical Engineering Science, 2017, 165, 122-130.	1.9	7

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37	<i>In situ</i> vibrational spectroscopy of adsorbed nitrogen in porous carbon materials. Physical Chemistry Chemical Physics, 2018, 20, 15411-15418.	1.3	7
38	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
39	Imbibition Transition: Gas Intercalation Between Graphene and a Solid Surface. Journal of Low Temperature Physics, 2011, 163, 26-33.	0.6	6
40	Vibrational modes of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>gases adsorbed on carbon nanotubes. Physical Review B, 2007, 76, .	1.1	3
41	Gas Adsorption in Novel Environments, Including Effects of Pore Relaxation. Journal of Low Temperature Physics, 2012, 166, 231-241.	0.6	3
42	Enhanced Oxidative Reactivity for Anthracite Coal via a Reactive Ball Milling Pretreatment Step. Energy & Fuels, 2009, 23, 4318-4324.	2.5	2
43	Gas Adsorption in Novel Environments, Including Effects of Pore Relaxation. Journal of Physics: Conference Series, 2012, 400, 012005.	0.3	0