

Andrew J Logsdail

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,195
citations

304743

22
h-index

133252

59
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docs citations

75
times ranked

7421
citing authors

#	ARTICLE	IF	CITATIONS
1	Dehydrogenation and dehydration of formic acid over orthorhombic molybdenum carbide. <i>Catalysis Today</i> , 2022, 384-386, 197-208.	4.4	13
2	Solid-State Structural Properties of Alloxazine Determined from Powder XRD Data in Conjunction with DFT-D Calculations and Solid-State NMR Spectroscopy: Unraveling the Tautomeric Identity and Pathways for Tautomeric Interconversion. <i>Crystal Growth and Design</i> , 2022, 22, 524-534.	3.0	8
3	Hydrodeoxygenation of guaiacol over orthorhombic molybdenum carbide: a DFT and microkinetic study. <i>Catalysis Science and Technology</i> , 2022, 12, 843-854.	4.1	12
4	Materials and Molecular Modeling at the Exascale. <i>Computing in Science and Engineering</i> , 2022, 24, 36-45.	1.2	7
5	Coexistence of carbonyl and ether groups on oxygen-terminated (110)-oriented diamond surfaces. <i>Communications Materials</i> , 2022, 3, .	6.9	10
6	A structure determination protocol based on combined analysis of 3D-ED data, powder XRD data, solid-state NMR data and DFT-D calculations reveals the structure of a new polymorph of α -tyrosine. <i>Chemical Science</i> , 2022, 13, 5277-5288.	7.4	15
7	A computational study of direct CO_2 hydrogenation to methanol on Pd surfaces. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 9360-9373.	2.8	7
8	Heterogeneous Trimetallic Nanoparticles as Catalysts. <i>Chemical Reviews</i> , 2022, 122, 6795-6849.	47.7	61
9	The Critical Role of PdZn Alloy in Pd/ZnO Catalysts for the Hydrogenation of Carbon Dioxide to Methanol. <i>ACS Catalysis</i> , 2022, 12, 5371-5379.	11.2	23
10	A combined periodic DFT and QM/MM approach to understand the radical mechanism of the catalytic production of methanol from glycerol. <i>Faraday Discussions</i> , 2021, 229, 108-130.	3.2	5
11	Tuning the transition barrier of H_2 dissociation in the hydrogenation of CO_2 to formic acid on Ti-doped Sn_2O_4 clusters. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 204-210.	2.8	6
12	QM/MM study of the reactivity of zeolite bound methoxy and carbene groups. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17634-17644.	2.8	11
13	A computational study of the properties of low- and high-index Pd, Cu and Zn surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14649-14661.	2.8	5
14	QM/MM study of the stability of dimethyl ether in zeolites H-ZSM-5 and H-Y. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2088-2096.	2.8	7
15	A quantitative multiscale perspective on primary olefin formation from methanol. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21437-21469.	2.8	8
16	Polymorphism in a Multicomponent Crystal System of Trimesic Acid and <i>t</i> -Butylamine. <i>Crystal Growth and Design</i> , 2020, 20, 5736-5744.	3.0	9
17	Mechanistic Insight into the Framework Methylation of H-ZSM-5 for Varying Methanol Loadings and Si/Al Ratios Using First-Principles Molecular Dynamics Simulations. <i>ACS Catalysis</i> , 2020, 10, 8904-8915.	11.2	36
18	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	3.0	425

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19	Methanol loading dependent methoxylation in zeolite H-ZSM-5. <i>Chemical Science</i> , 2020, 11, 6805-6814.	7.4	21
20	Role of the Support in Gold-Containing Nanoparticles as Heterogeneous Catalysts. <i>Chemical Reviews</i> , 2020, 120, 3890-3938.	47.7	275
21	Polymorphism of L-Tryptophan. <i>Angewandte Chemie</i> , 2019, 131, 18964-18968.	2.0	5
22	Polymorphism of L-Tryptophan. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18788-18792.	13.8	21
23	Computational QM/MM investigation of the adsorption of MTH active species in H-Y and H-ZSM-5. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2639-2650.	2.8	21
24	Main-group test set for materials science and engineering with user-friendly graphical tools for error analysis: systematic benchmark of the numerical and intrinsic errors in state-of-the-art electronic-structure approximations. <i>New Journal of Physics</i> , 2019, 21, 013025.	2.9	15
25	Hybrid-DFT Modeling of Lattice and Surface Vacancies in MnO. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8133-8144.	3.1	10
26	Hydride Pinning Pathway in the Hydrogenation of CO ₂ to Formic Acid on Dimeric Tin Dioxide. <i>ChemPhysChem</i> , 2019, 20, 680-686.	2.1	6
27	Open-Source, Python-Based Redevelopment of the ChemShell Multiscale QM/MM Environment. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1317-1328.	5.3	46
28	DFT-Computed Trends in the Properties of Bimetallic Precious Metal Nanoparticles with Core@Shell Segregation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5721-5730.	3.1	19
29	Computational investigation of CO adsorbed on Au _x , Ag _x and (AuAg) _x nanoclusters (x = 1-5, 147) and monometallic Au and Ag low-energy surfaces. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	1
30	Highlights from Faraday Discussion on Designing Nanoparticle Systems for Catalysis, London, UK, May 2018. <i>Chemical Communications</i> , 2018, 54, 9385-9393.	4.1	2
31	Deep vs shallow nature of oxygen vacancies and consequent n-type carrier concentrations in transparent conducting oxides. <i>Physical Review Materials</i> , 2018, 2, .	2.4	73
32	Magnetic coupling constants for MnO as calculated using hybrid density functional theory. <i>Chemical Physics Letters</i> , 2017, 690, 47-53.	2.6	5
33	Modelling the chemistry of Mn-doped MgO for bulk and (100) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28648-28660.	2.8	11
34	Controlling Structural Transitions in AuAg Nanoparticles through Precise Compositional Design. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4414-4419.	4.6	15
35	Modelling metal centres, acid sites and reaction mechanisms in microporous catalysts. <i>Faraday Discussions</i> , 2016, 188, 235-255.	3.2	29
36	Morphological Features and Band Bending at Nonpolar Surfaces of ZnO. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11598-11611.	3.1	33

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37	Tailoring Gold Nanoparticle Characteristics and the Impact on Aqueous-Phase Oxidation of Glycerol. ACS Catalysis, 2015, 5, 4377-4384.	11.2	45
38	Polymorph Engineering of TiO ₂ : Demonstrating How Absolute Reference Potentials Are Determined by Local Coordination. Chemistry of Materials, 2015, 27, 3844-3851.	6.7	113
39	Influence of Composition and Chemical Arrangement on the Kinetic Stability of 147-Atom Au ⁺ Ag Bimetallic Nanoclusters. Journal of Physical Chemistry C, 2015, 119, 23685-23697.	3.1	29
40	Structural, energetic and electronic properties of (100) surfaces for alkaline earth metal oxides as calculated with hybrid density functional theory. Surface Science, 2015, 642, 58-65.	1.9	18
41	Understanding the Thermal Stability of Silver Nanoparticles Embedded in a-Si. Journal of Physical Chemistry C, 2015, 119, 23767-23773.	3.1	16
42	From Stable ZnO and GaN Clusters to Novel Double Bubbles and Frameworks. Inorganics, 2014, 2, 248-263.	2.7	10
43	Embedded-cluster calculations in a numeric atomic orbital density-functional theory framework. Journal of Chemical Physics, 2014, 141, 024105.	3.0	38
44	Designer Titania-Supported Au ⁺ Pd Nanoparticles for Efficient Photocatalytic Hydrogen Production. ACS Nano, 2014, 8, 3490-3497.	14.6	279
45	Double bubbles: a new structural motif for enhanced electron ⁻ hole separation in solids. Physical Chemistry Chemical Physics, 2014, 16, 21098-21105.	2.8	11
46	Segregation effects on the properties of (AuAg) ₁₄₇ . Physical Chemistry Chemical Physics, 2014, 16, 21049-21061.	2.8	37
47	Bulk ionization potentials and band alignments from three-dimensional periodic calculations as demonstrated on rocksalt oxides. Physical Review B, 2014, 90, .	3.2	33
48	Band alignment of rutile and anatase TiO ₂ . Nature Materials, 2013, 12, 798-801.	27.5	1,924
49	Improving the Adsorption of Au Atoms and Nanoparticles on Graphite via Li Intercalation. Journal of Physical Chemistry C, 2013, 117, 22683-22695.	3.1	4
50	Faceting preferences for AuN and PdN nanoclusters with high-symmetry motifs. Physical Chemistry Chemical Physics, 2013, 15, 8392.	2.8	10
51	A Selective Blocking Method To Control the Overgrowth of Pt on Au Nanorods. Journal of the American Chemical Society, 2013, 135, 6554-6561.	13.7	76
52	Atomic Cluster Structure Identification Using Aberration-corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 534-535.	0.4	0
53	Development and optimization of a novel genetic algorithm for identifying nanoclusters from scanning transmission electron microscopy images. Journal of Computational Chemistry, 2012, 33, 391-400.	3.3	15
54	Overgrowth of Rhodium on Gold Nanorods. Journal of Physical Chemistry C, 2012, 116, 10312-10317.	3.1	29

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55	Interdependence of structure and chemical order in high symmetry (PdAu) _N nanoclusters. RSC Advances, 2012, 2, 5863.	3.6	17
56	Predicting the Optical Properties of Core-Shell and Janus Segregated Au-M Nanoparticles (M = Ag, Pt). J. Phys. Chem. C, 2011, 115, 15240-15250.	3.1	32
57	Dopant-induced 2D-3D transition in small Au-containing clusters: DFT-global optimisation of 8-atom Au-Ag nanoalloys. Nanoscale, 2012, 4, 1109-1115.	5.6	93
58	Interaction of Au ₁₆ Nanocluster with Defects in Supporting Graphite: A Density-Functional Study. Journal of Physical Chemistry C, 2011, 115, 15240-15250.	3.1	23
59	Theoretical and Experimental Studies of the Optical Properties of Conjoined Gold-Palladium Nanospheres. Journal of Physical Chemistry C, 2010, 114, 21247-21251.	3.1	14
60	Structures and Stabilities of Platinum-Gold Nanoclusters. Journal of Computational and Theoretical Nanoscience, 2009, 6, 857-866.	0.4	44