Amity Andersen

List of Publications by Year
in descending order

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34	1,051	394421	414414
papers	citations	19 h-index	32 g-index

35	35	35	1795
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of La₂O₃ on the Mixed Higher Alcohols Synthesis from Syngas over Co Catalysts: A Combined Theoretical and Experimental Study. Journal of Physical Chemistry C, 2011, 115, 17440-17451.	3.1	119
2	Collision-Induced Dissociation and Theoretical Studies of Mg+ Complexes with CO, CO2, NH3, CH4, CH3OH, and C6H6. Journal of Physical Chemistry A, 2000, 104, 692-705.	2.5	82
3	Operando Solid-State NMR Observation of Solvent-Mediated Adsorption-Reaction of Carbohydrates in Zeolites. ACS Catalysis, 2017, 7, 3489-3500.	11.2	70
4	Hybrid Density Functional Theory Predictions of Low-Temperature Dimethyl Ether Combustion Pathways. II. Chain-Branching Energetics and Possible Role of the Criegee Intermediate. Journal of Physical Chemistry A, 2003, 107, 9463-9478.	2.5	64
5	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. Nature Chemistry, 2021, 13, 343-349.	13.6	59
6	Adsorption of Potassium on MoS₂(100) Surface: A First-Principles Investigation. Journal of Physical Chemistry C, 2011, 115, 9025-9040.	3.1	54
7	Structure and Dynamics of Polysulfide Clusters in a Nonaqueous Solvent Mixture of 1,3-Dioxolane and 1,2-Dimethoxyethane. Chemistry of Materials, 2019, 31, 2308-2319.	6.7	54
8	Unraveling the Origin of Structural Disorder in High Temperature Transition Al₂O₃: Structure of Î¸-Al₂O₃. Chemistry of Materials, 2015, 27, 7042-7049.	6.7	51
9	First-Principles Characterization of Potassium Intercalation in Hexagonal 2H-MoS₂. Journal of Physical Chemistry C, 2012, 116, 1826-1832.	3.1	50
10	Comprehensive Experimental and Computational Spectroscopic Study of Hexacyanoferrate Complexes in Water: From Infrared to X-ray Wavelengths. Journal of Physical Chemistry B, 2018, 122, 5075-5086.	2.6	40
11	Highly Selective Colorimetric and Luminescence Response of a Square-Planar Platinum(II) Terpyridyl Complex to Aqueous TcO₄^{â€“}. Inorganic Chemistry, 2015, 54, 9914-9923.	4.0	39
12	Controlling the Charge State and Redox Properties of Supported Polyoxometalates via Soft Landing of Mass-Selected Ions. Journal of Physical Chemistry C, 2014, 118, 27611-27622.	3.1	32
13	Proteinâ€“Mineral Interactions: Molecular Dynamics Simulations Capture Importance of Variations in Mineral Surface Composition and Structure. Langmuir, 2016, 32, 6194-6209.	3.5	31
14	Quantification of Highâ€Temperature Transition Al₂O₃ and Their Phase Transformations**. Angewandte Chemie - International Edition, 2020, 59, 21719-21727.	13.8	28
15	First-principles-derived kinetics of the reactions involved in low-temperature dimethyl ether oxidation. Molecular Physics, 2008, 106, 367-396.	1.7	27
16	Elucidation of the photoaquation reaction mechanism in ferrous hexacyanide using synchrotron x-rays with sub-pulse-duration sensitivity. Journal of Chemical Physics, 2019, 151, 144306.	3.0	24
17	IRMOF-74(n)â€“Mg: a novel catalyst series for hydrogen activation and hydrogenolysis of Câ€“O bonds. Chemical Science, 2019, 10, 9880-9892.	7.4	23
18	Surface Interactions and Confinement of Methane: A High Pressure Magic Angle Spinning NMR and Computational Chemistry Study. Langmuir, 2017, 33, 1359-1367.	3.5	22

#	Article	IF	Citations
19	Lithium Insertion Mechanism in Iron Fluoride Nanoparticles Prepared by Catalytic Decomposition of Fluoropolymer. ACS Applied Energy Materials, 2019, 2, 1832-1843.	5.1	21
20	Effects of potassium doping on CO hydrogenation over MoS2 catalysts: A first-principles investigation. Catalysis Communications, 2014, 52, 92-97.	3.3	19
21	Insight into Selected Reactions in Low-Temperature Dimethyl Ether Combustion from Bornâ€"Oppenheimer Molecular Dynamicsâ€. Journal of Physical Chemistry A, 2006, 110, 1393-1407.	2.5	18
22	Modeling Optical Spectra of Large Organic Systems Using Real-Time Propagation of Semiempirical Effective Hamiltonians. Journal of Chemical Theory and Computation, 2017, 13, 4410-4420.	5.3	16
23	Exploring Fuel Cell Cathode Materials: A High Throughput Calculation Approach. ECS Transactions, 2009, 25, 1335-1344.	0.5	15
24	Charge retention of soft-landed phosphotungstate Keggin anions on self-assembled monolayers. Physical Chemistry Chemical Physics, 2016, 18, 9021-9028.	2.8	15
25	Self-learning kinetic Monte Carlo simulations of Al diffusion in Mg. Journal of Physics Condensed Matter, 2016, 28, 155001.	1.8	14
26	Theoretical study of the mechanism behind the para-selective nitration of toluene in zeolite H-Beta. Molecular Simulation, 2008, 34, 1025-1039.	2.0	13
27	Theoretical Modeling of ⁹⁹Tc NMR Chemical Shifts. Inorganic Chemistry, 2016, 55, 8341-8347.	4.0	10
28	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. Journal of Physical Chemistry Letters, 2022, 13, 378-386.	4.6	9
29	First-Principles Dynamics along the Reaction Path of CH3CH2+ O2â†' H2C=CH2+ HOO:Â Evidence for Vibronic State Mixing and Neutral Hydrogen Transferâ€. Journal of Physical Chemistry A, 2002, 106, 9672-9685.	2.5	8
30	Graphical Gaussian process regression model for aqueous solvation free energy prediction of organic molecules in redox flow batteries. Physical Chemistry Chemical Physics, 2021, 23, 24892-24904.	2.8	8
31	Electron Ionization Mass Spectrum of Tellurium Hexafluoride. Inorganic Chemistry, 2015, 54, 4821-4826.	4.0	6
32	Selective Interactions of Soil Organic Matter Compounds with Calcite and the Role of Aqueous Ca. ACS Earth and Space Chemistry, 0, , .	2.7	4
33	Quantification of Highâ€Temperature Transition Al₂O₃ and Their Phase Transformations**. Angewandte Chemie, 2020, 132, 21903-21911.	2.0	3
34	Characterizing the localization of organic C on mineral surfaces: a correlative microscopy/spectroscopy approach. Microscopy and Microanalysis, 2021, 27, 306-307.	0.4	0