

Ujjal Das

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,420
citations

623734

14
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

2396
citing authors

#	ARTICLE	IF	CITATIONS
1	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. <i>Nature Communications</i> , 2013, 4, 2383.	12.8	379
2	Propylene Hydrogenation and Propane Dehydrogenation by a Single-Site Zn ²⁺ on Silica Catalyst. <i>ACS Catalysis</i> , 2014, 4, 1091-1098.	11.2	230
3	Selective propane dehydrogenation with single-site CoII on SiO ₂ by a non-redox mechanism. <i>Journal of Catalysis</i> , 2015, 322, 24-37.	6.2	168
4	Raman Evidence for Late Stage Disproportionation in a Li ⁺ O ₂ Battery. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2705-2710.	4.6	144
5	Organometallic model complexes elucidate the active gallium species in alkane dehydrogenation catalysts based on ligand effects in Ga K-edge XANES. <i>Catalysis Science and Technology</i> , 2016, 6, 6339-6353.	4.1	90
6	Single-site zinc on silica catalysts for propylene hydrogenation and propane dehydrogenation: Synthesis and reactivity evaluation using an integrated atomic layer deposition-catalysis instrument. <i>Journal of Catalysis</i> , 2017, 345, 170-182.	6.2	76
7	Structure and Stability of Lithium Superoxide Clusters and Relevance to Li ⁺ O ₂ Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 813-819.	4.6	74
8	Role of Manganese Deposition on Graphite in the Capacity Fading of Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14244-14251.	8.0	71
9	Effect of Siloxane Ring Strain and Cation Charge Density on the Formation of Coordinately Unsaturated Metal Sites on Silica: Insights from Density Functional Theory (DFT) Studies. <i>ACS Catalysis</i> , 2015, 5, 7177-7185.	11.2	38
10	Addition of water to Al ₂ O ₃ determined by anion photoelectron spectroscopy and quantum chemical calculations. <i>Journal of Chemical Physics</i> , 2005, 122, 014313.	3.0	37
11	Supported Aluminum Catalysts for Olefin Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 689-694.	11.2	25
12	Al-H bond formation in hydrated aluminum oxide cluster anions. <i>Journal of Chemical Physics</i> , 2006, 124, 021101.	3.0	17
13	Analysis of Hydroxide Sorbents for CO ₂ Capture from Warm Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13473-13481.	3.7	15
14	Al ₂ O ₄ : A Superatom with Potential for New Materials Design. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 2011-2019.	5.3	14
15	Development of activity-descriptor relationships for supported metal ion hydrogenation catalysts on silica. <i>Polyhedron</i> , 2018, 152, 73-83.	2.2	11
16	Interaction of Lewis Acids with Si(100)-2 \times 1 and Ge(100)-2 \times 1 Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10146-10150.	3.1	8
17	Addition of NH ₃ to Al ₂ O ₃ . <i>Journal of Chemical Physics</i> , 2006, 124, 201101.	3.0	7
18	Phosphine Adsorption on the In-Rich InP(001) Surface: Evidence of Surface Dative Bonds at Room Temperature. <i>Langmuir</i> , 2007, 23, 10109-10115.	3.5	7

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19	Interaction of water, methanol, and ammonia with Al _x O _y : A comparative theoretical study of Al ₅ O ₄ versus Al ₃ O ₃ . Journal of Chemical Physics, 2007, 127, 154310.	3.0	5
20	Predicting IR vibrations of gas phase molecules and surface-adsorbed species using bond length-frequency correlations. Journal of Computational Chemistry, 2009, 30, 1872-1881.	3.3	4