

Arik Beck

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

549
citations

933447

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1125743

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g-index

15
all docs

15
docs citations

15
times ranked

401
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamics of overlayer formation on catalyst nanoparticles and strong metal-support interaction. Nature Communications, 2020, 11, 3220.	12.8	151
2	Dynamic interplay between metal nanoparticles and oxide support under redox conditions. Science, 2022, 376, 982-987.	12.6	127
3	Following the structure of copper-zinc-alumina across the pressure gap in carbon dioxide hydrogenation. Nature Catalysis, 2021, 4, 488-497.	34.4	100
4	Stable Palladium Oxide Clusters Encapsulated in Silicalite-1 for Complete Methane Oxidation. ACS Catalysis, 2021, 11, 7371-7382.	11.2	34
5	Thermodynamic insights into strong metal-support interaction of transition metal nanoparticles on titania: simple descriptors for complex chemistry. Journal of Materials Chemistry A, 2021, 9, 4044-4054.	10.3	25
6	Understanding the preferential oxidation of carbon monoxide (PrOx) using size-controlled Au nanocrystal catalyst. AIChE Journal, 2018, 64, 3159-3167.	3.6	20
7	Drastic Events and Gradual Change Define the Structure of an Active Copper-Zinc-Alumina Catalyst for Methanol Synthesis. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
8	Surface Noble Metal Concentration on Ceria as a Key Descriptor for Efficient Catalytic CO Oxidation. ACS Catalysis, 2022, 12, 2473-2486.	11.2	19
9	Methanol synthesis over Cu/CeO ₂ -ZrO ₂ catalysts: the key role of multiple active components. Catalysis Science and Technology, 2021, 11, 349-358.	4.1	18
10	Temperature and Reaction Environment Influence the Nature of Platinum Species Supported on Ceria. ACS Catalysis, 2021, 11, 13041-13049.	11.2	13
11	Size of Ceria Particles Influences Surface Hydroxylation and Hydroxyl Stability. Journal of Physical Chemistry C, 2021, 125, 9303-9309.	3.1	10
12	Influence of Hydrogen Pressure on the Structure of Platinum-Titania Catalysts. Journal of Physical Chemistry C, 2021, 125, 22531-22538.	3.1	9
13	Drastische Ereignisse und langsame Transformation definieren die Struktur eines aktiven Kupfer-Zink-Aluminiumoxid-Katalysators für die Methanol Synthese. Angewandte Chemie, 2022, 134, .	2.0	3
14	Innentitelbild: Drastische Ereignisse und langsame Transformation definieren die Struktur eines aktiven Kupfer-Zink-Aluminiumoxid-Katalysators für die Methanol Synthese (Angew. Chem. 15/2022). Angewandte Chemie, 2022, 134, .	2.0	0