

Amy J Knorpp

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

822
citations

567281

15
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	BaTiO ₃ -based thermistor hollow fibers prepared using a phase inversion spinning process for energy efficient gas sorption. <i>Journal of the European Ceramic Society</i> , 2022, 42, 981-992.	5.7	4
2	Paired Copper Monomers in Zeolite Omega: The Active Site for Methane to Methanol Conversion. <i>Angewandte Chemie</i> , 2021, 133, 5918-5922.	2.0	8
3	Paired Copper Monomers in Zeolite Omega: The Active Site for Methane to Methanol Conversion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5854-5858.	13.8	27
4	Copper-exchanged large-pore and small-pore mordenite (MOR) for methane-to-methanol conversion. <i>RSC Advances</i> , 2021, 11, 31058-31061.	3.6	5
5	Mapping Vibrational Spectra to the Structures of Copper Species in Zeolites Based on Calculated Stretching Frequencies of Adsorbed Nitrogen and Carbon Monoxides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12094-12106.	3.1	11
6	Pinpointing and Quantifying the Aluminum Distribution in Zeolite Catalysts Using Anomalous Scattering at the Al Absorption Edge. <i>Journal of the American Chemical Society</i> , 2021, 143, 17926-17930.	13.7	16
7	Unwanted effects of X-rays in surface grafted copper(II) organometallics and copper exchanged zeolites, how they manifest, and what can be done about them. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6826-6837.	2.8	18
8	Undoped SnO ₂ as a Support for Ni Species to Boost Oxygen Generation through Alkaline Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18407-18420.	8.0	17
9	Active sites and mechanisms in the direct conversion of methane to methanol using Cu in zeolitic hosts: a critical examination. <i>Chemical Society Reviews</i> , 2020, 49, 1449-1486.	38.1	170
10	Cu-Erionite Zeolite Achieves High Yield in Direct Oxidation of Methane to Methanol by Isothermal Chemical Looping. <i>Chemistry of Materials</i> , 2020, 32, 1448-1453.	6.7	33
11	Oxidation of methane to methanol over Cu-exchanged zeolites: Scientia gratia scientiae or paradigm shift in natural gas valorization?. <i>Journal of Catalysis</i> , 2020, 385, 238-245.	6.2	35
12	Comparative performance of Cu-zeolites in the isothermal conversion of methane to methanol. <i>Chemical Communications</i> , 2019, 55, 11794-11797.	4.1	25
13	In Situ X-ray Photoelectron Spectroscopy Detects Multiple Active Sites Involved in the Selective Anaerobic Oxidation of Methane in Copper-Exchanged Zeolites. <i>ACS Catalysis</i> , 2019, 9, 6728-6737.	11.2	38
14	On isothermality in some commonly used plug flow reactors for X-ray based investigations of catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 3081-3089.	4.1	20
15	Misconceptions and challenges in methane-to-methanol over transition-metal-exchanged zeolites. <i>Nature Catalysis</i> , 2019, 2, 485-494.	34.4	140
16	The influence of zeolite morphology on the conversion of methane to methanol on copper-exchanged omega zeolite (MAZ). <i>Catalysis Science and Technology</i> , 2019, 9, 2806-2811.	4.1	18
17	Methane-to-Methanol via Chemical Looping: Economic Potential and Guidance for Future Research. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8674-8680.	3.7	64
18	Copper-Exchanged Omega (MAZ) Zeolite: Copper-concentration Dependent Active Sites and its Unprecedented Methane to Methanol Conversion. <i>ChemCatChem</i> , 2018, 10, 5593-5596.	3.7	53

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19	On the Mechanism Underlying the Direct Conversion of Methane to Methanol by Copper Hosted in Zeolites; Braiding Cu K-Edge XANES and Reactivity Studies. Journal of the American Chemical Society, 2018, 140, 10090-10093.	13.7	95
20	Properties Modification of Nanosized Hollow Zeolite Crystals by Desilication. ChemNanoMat, 2018, 4, 992-999.	2.8	25