Elias Frei

List of Publications by Year
in descending order

29	1,519	471509 17	454955 30
papers	citations	h-index	g-index

32	32	32	2267
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrathin 2D Fe-Nanosheets Stabilized by 2D Mesoporous Silica: Synthesis and Application in Ammonia Synthesis. ACS Applied Materials & Interfaces, 2021, 13, 30187-30197.	8.0	3
2	Cuâ"Zn Alloy Formation as Unfavored State for Efficient Methanol Catalysts. ChemCatChem, 2020, 12, 4029-4033.	3.7	39
3	Transition from 2D to 3D SBAâ€15 by Highâ€Temperature Fluoride Addition and its Impact on the Surface Reactivity Probed by Isopropanol Conversion. Chemistry - A European Journal, 2020, 26, 11571-11583.	3.3	5
4	Oxygen diffusion in Cu-based catalysts: A probe for metal support interactions. Applied Catalysis A: General, 2020, 594, 117460.	4.3	2
5	Nanocatalysts Unravel the Selective State of Ag. ChemCatChem, 2020, 12, 2977-2988.	3.7	9
6	F-doping of nanostructured ZnO: a way to modify structural, electronic, and surface properties. Physical Chemistry Chemical Physics, 2020, 22, 11273-11285.	2.8	10
7	The Mechanism of Interfacial CO₂ Activation on Al Doped Cu/ZnO. ACS Catalysis, 2020, 10, 5672-5680.	11.2	21
8	Highly Dispersed Ni⁰/Ni_xMg_{1â"x}O Catalysts Derived from Solid Solutions: How Metal and Support Control the CO₂ Hydrogenation. ACS Catalysis, 2019, 9, 8534-8546.	11.2	39
9	Oxidative Fluorination of Cu/ZnO Methanol Catalysts. Angewandte Chemie - International Edition, 2019, 58, 12935-12939.	13.8	13
10	Oxidative Fluorination of Cu/ZnO Methanol Catalysts. Angewandte Chemie, 2019, 131, 13069-13073.	2.0	4
11	In Situ Quantification of Reaction Adsorbates in Low-Temperature Methanol Synthesis on a High-Performance Cu/ZnO:Al Catalyst. ACS Catalysis, 2019, 9, 5537-5544.	11.2	32
12	Electrochemical Surface Oxidation of Copper Studied by in Situ Grazing Incidence X-ray Diffraction. Journal of Physical Chemistry C, 2019, 123, 13253-13262.	3.1	32
13	Synthesis and Characterization of Agâ€Delafossites AgBO₂ (B: Al, Ga, In) from a Rapid Hydrothermal Process. European Journal of Inorganic Chemistry, 2019, 2019, 2319-2319.	2.0	1
14	Synthesis and Characterization of Agâ€Delafossites AgBO₂ (B: Al, Ga, In) from a Rapid Hydrothermal Process. European Journal of Inorganic Chemistry, 2019, 2019, 2333-2345.	2.0	7
15	Evolution of zincian malachite synthesis by low temperature co-precipitation and its catalytic impact on the methanol synthesis. Applied Catalysis B: Environmental, 2019, 249, 218-226.	20.2	38
16	Supported Ag Nanoparticles and Clusters for CO Oxidation: Size Effects and Influence of the Silverâ€"Oxygen Interactions. ACS Applied Nano Materials, 2019, 2, 2909-2920.	5.0	40
17	Activating a Cu/ZnOâ€‰:â€‰Al Catalyst â€" Much More than Reduction: Decomposition, Selfâ€Doping and Polymorphism. ChemCatChem, 2019, 11, 1587-1592.	3.7	39
18	Ni Single Atom Catalysts for CO₂ Activation. Journal of the American Chemical Society, 2019, 141, 2451-2461.	13.7	291

#	Article	IF	Citations
19	The Electro-Deposition/Dissolution of CuSO₄ Aqueous Electrolyte Investigated by In Situ Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 780-787.	2.6	26
20	Surface titration of supported Ni catalysts by O2-pulse thermal analysis. Applied Catalysis A: General, 2018, 566, 155-163.	4.3	8
21	Investigations of Cu/Zn Oxalates from Aqueous Solution: Singleâ€Phase Precursors and Beyond. Chemistry - A European Journal, 2018, 24, 15080-15088.	3.3	5
22	In-Situ Formation of Fe Nanoparticles from FeOOH Nanosheets on Î³-Al₂O₃ as Efficient Catalysts for Ammonia Synthesis. ACS Sustainable Chemistry and Engineering, 2017, 5, 10900-10909.	6.7	20
23	IR-Spectroscopic Study on the Interface of Cu-Based Methanol Synthesis Catalysts: Evidence for the Formation of a ZnO Overlayer. Topics in Catalysis, 2017, 60, 1735-1743.	2.8	89
24	Bridging the Time Gap: A Copper/Zinc Oxide/Aluminum Oxide Catalyst for Methanol Synthesis Studied under Industrially Relevant Conditions and Time Scales. Angewandte Chemie, 2016, 128, 12900-12904.	2.0	36
25	Bridging the Time Gap: A Copper/Zinc Oxide/Aluminum Oxide Catalyst for Methanol Synthesis Studied under Industrially Relevant Conditions and Time Scales. Angewandte Chemie - International Edition, 2016, 55, 12708-12712.	13.8	109
26	Reverse water-gas shift reaction at the Cu/ZnO interface: Influence of the Cu/Zn ratio on structure-activity correlations. Applied Catalysis B: Environmental, 2016, 195, 104-111.	20.2	113
27	The Mechanism of CO and CO₂ Hydrogenation to Methanol over Cuâ€Based Catalysts. ChemCatChem, 2015, 7, 1105-1111.	3.7	424
28	The Influence of the Precipitation/Ageing Temperature on a Cu/ZnO/ZrO₂ Catalyst for Methanol Synthesis from H₂ and CO₂. ChemCatChem, 2014, 6, 1721-1730.	3.7	54
29	Engineered High Aspect Ratio Vertical Nanotubes as a Model System for the Investigation of Catalytic Methanol Synthesis Over Cu/ZnO. ACS Applied Materials & Interfaces, 2014, 6, 1576-1582.	8.0	9