

Poul Georg Moses

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

5,220
citations

361413

20
h-index

477307

29
g-index

30
all docs

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docs citations

30
times ranked

8686
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing surface-sensitive redox properties of VO _x /TiO ₂ catalyst nanoparticles. <i>Nanoscale</i> , 2021, 13, 7266-7272.	5.6	9
2	Single-atom Pt promotion of industrial Co-Mo-S catalysts for ultra-deep hydrodesulfurization. <i>Journal of Catalysis</i> , 2021, 403, 74-86.	6.2	21
3	Surface Topotactic Growth of Edge-Terminated MoS ₂ Catalysts. <i>Microscopy and Microanalysis</i> , 2019, 25, 1456-1457.	0.4	0
4	Catalyst design criteria and fundamental limitations in the electrochemical synthesis of dimethyl carbonate. <i>Green Chemistry</i> , 2019, 21, 6200-6209.	9.0	6
5	Electrochemically Generated Copper Carbonyl for Selective Dimethyl Carbonate Synthesis. <i>ACS Catalysis</i> , 2019, 9, 859-866.	11.2	15
6	Modeling the adsorption of sulfur containing molecules and their hydrodesulfurization intermediates on the Co-promoted MoS ₂ catalyst by DFT. <i>Journal of Catalysis</i> , 2018, 358, 131-140.	6.2	43
7	Topotactic Growth of Edge-Terminated MoS ₂ from MoO ₂ Nanocrystals. <i>ACS Nano</i> , 2018, 12, 5351-5358.	14.6	26
8	A complete reaction mechanism for standard and fast selective catalytic reduction of nitrogen oxides on low coverage VO/TiO ₂ (0 0 1) catalysts. <i>Journal of Catalysis</i> , 2017, 346, 188-197.	6.2	101
9	Modeling the active sites of Co-promoted MoS ₂ particles by DFT. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2017-2024.	2.8	25
10	Visualizing atomic-scale redox dynamics in vanadium oxide-based catalysts. <i>Nature Communications</i> , 2017, 8, 305.	12.8	59
11	Relation between Hydrogen Evolution and Hydrodesulfurization Catalysis. <i>ChemCatChem</i> , 2016, 8, 3334-3337.	3.7	20
12	Exploring Scaling Relations for Chemisorption Energies on Transition-Metal-Exchanged Zeolites ZSM-22 and ZSM-5. <i>ChemCatChem</i> , 2016, 8, 767-772.	3.7	18
13	The reaction mechanism for the SCR process on monomer V ⁵⁺ sites and the effect of modified Brønsted acidity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17071-17080.	2.8	53
14	Activation of Oxygen and NO in NH ₃ -SCR over Cu-CHA Catalysts Evaluated by Density Functional Theory. <i>Topics in Catalysis</i> , 2016, 59, 861-865.	2.8	31
15	An industrial perspective on the impact of Haldor Topsøe on computational chemistry. <i>Journal of Catalysis</i> , 2015, 328, 19-25.	6.2	4
16	Ketene as a Reaction Intermediate in the Carbonylation of Dimethyl Ether to Methyl Acetate over Mordenite. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7261-7264.	13.8	98
17	A Consistent Reaction Scheme for the Selective Catalytic Reduction of Nitrogen Oxides with Ammonia. <i>ACS Catalysis</i> , 2015, 5, 2832-2845.	11.2	400
18	Coexistence of Square Pyramidal Structures of Oxo Vanadium (+5) and (+4) Species Over Low-Coverage VO _x /TiO ₂ (101) and (001) Anatase Catalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23445-23452.	3.1	34

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19	Methanol-to-hydrocarbons conversion: The alkene methylation pathway. <i>Journal of Catalysis</i> , 2014, 314, 159-169.	6.2	136
20	Thermochemistry and micro-kinetic analysis of methanol synthesis on ZnO (0 0 0 1). <i>Journal of Catalysis</i> , 2014, 309, 397-407.	6.2	54
21	Trends in Hydrodesulfurization Catalysis Based on Realistic Surface Models. <i>Catalysis Letters</i> , 2014, 144, 1425-1432.	2.6	32
22	Methanol to Dimethyl Ether over ZSM-22: A Periodic Density Functional Theory Study. <i>ACS Catalysis</i> , 2013, 3, 735-745.	11.2	76
23	The effect of Co-promotion on MoS ₂ catalysts for hydrodesulfurization of thiophene: A density functional study. <i>Journal of Catalysis</i> , 2009, 268, 201-208.	6.2	136
24	Density functional study of the adsorption and van der Waals binding of aromatic and conjugated compounds on the basal plane of MoS ₂ . <i>Journal of Chemical Physics</i> , 2009, 130, 104709.	3.0	108
25	Recent density functional studies of hydrodesulfurization catalysts: insight into structure and mechanism. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 064236.	1.8	25
26	A density functional study of inhibition of the HDS hydrogenation pathway by pyridine, benzene, and H ₂ S on MoS ₂ -based catalysts. <i>Catalysis Today</i> , 2006, 111, 44-51.	4.4	93
27	Biomimetic Hydrogen Evolution: MoS ₂ Nanoparticles as Catalyst for Hydrogen Evolution. <i>ChemInform</i> , 2005, 36, no.	0.0	12
28	Biomimetic Hydrogen Evolution: MoS ₂ Nanoparticles as Catalyst for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2005, 127, 5308-5309.	13.7	3,497