Martin HÃ¸j

List of Publications by Year
in descending order

40 papers	1,157 citations	304368 22 h-index	395343 33 g-index
40 all docs	40 docs citations	40 times ranked	1413 citing authors

#	Article	IF	Citations
1	Transportation fuels from biomass fast pyrolysis, catalytic hydrodeoxygenation, and catalytic fast hydropyrolysis. Progress in Energy and Combustion Science, 2018, 68, 268-309.	15.8	194
2	The role of monomeric iron during the selective catalytic reduction of NOx by NH3 over Fe-BEA zeolite catalysts. Applied Catalysis B: Environmental, 2009, 93, 166-176.	10.8	109
3	Probing the Active Sites of MoS₂ Based Hydrotreating Catalysts Using Modulation Excitation Spectroscopy. ACS Catalysis, 2019, 9, 2568-2579.	5.5	43
4	Selective oxidation of propylene to acrolein by hydrothermally synthesized bismuth molybdates. Applied Catalysis A: General, 2014, 482, 145-156.	2.2	41
5	Flame spray synthesis of CoMo/Al2O3 hydrotreating catalysts. Applied Catalysis A: General, 2011, 397, 201-208.	2.2	39
6	Bismuth Molybdate Catalysts Prepared by Mild Hydrothermal Synthesis: Influence of pH on the Selective Oxidation of Propylene. Catalysts, 2015, 5, 1554-1573.	1.6	38
7	A perspective on catalytic hydropyrolysis of biomass. Renewable and Sustainable Energy Reviews, 2021, 143, 110960.	8.2	38
8	One-step synthesis of bismuth molybdate catalysts via flame spray pyrolysis for the selective oxidation of propylene to acrolein. Chemical Communications, 2014, 50, 15404-15406.	2.2	36
9	The Effect of Pt Particle Size on the Oxidation of CO, C3H6, and NO Over Pt/Al2O3 for Diesel Exhaust Aftertreatment. Topics in Catalysis, 2017, 60, 1333-1344.	1.3	36
10	Hydrogen assisted catalytic biomass pyrolysis. Effect of temperature and pressure. Biomass and Bioenergy, 2018, 115, 97-107.	2.9	35
11	Deactivation behavior of an iron-molybdate catalyst during selective oxidation of methanol to formaldehyde. Catalysis Science and Technology, 2018, 8, 4626-4637.	2.1	32
12	Influence of H 2 O and H 2 S on the composition, activity, and stability of sulfided Mo, CoMo, and NiMo supported on MgAl 2 O 4 for hydrodeoxygenation of ethylene glycol. Applied Catalysis A: General, 2018, 551, 106-121.	2.2	31
13	Structure of alumina supported vanadia catalysts for oxidative dehydrogenation of propane prepared by flame spray pyrolysis. Applied Catalysis A: General, 2013, 451, 207-215.	2.2	30
14	Thermal Cracking of Sugars for the Production of Glycolaldehyde and Other Small Oxygenates. ChemSusChem, 2020, 13, 688-692.	3.6	28
15	Structure, activity and kinetics of supported molybdenum oxide and mixed molybdenumâ€“vanadium oxide catalysts prepared by flame spray pyrolysis for propane OHD. Applied Catalysis A: General, 2014, 472, 29-38.	2.2	27
16	Operando XAS/XRD and Raman Spectroscopic Study of Structural Changes of the Iron Molybdate Catalyst during Selective Oxidation of Methanol. ChemCatChem, 2019, 11, 4871-4883.	1.8	26
17	Nature of Active Sites of Fe-Beta Catalyst for NOx-SCR by NH3. Topics in Catalysis, 2009, 52, 1728-1733.	1.3	25
18	Two-Nozzle Flame Spray Pyrolysis (FSP) Synthesis of CoMo/Al2O3 Hydrotreating Catalysts. Catalysis Letters, 2013, 143, 386-394.	1.4	25

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19	New insights into the effect of pressure on catalytic hydropyrolysis of biomass. Fuel Processing Technology, 2019, 193, 392-403.	3.7	25
20	Structural dynamics of an iron molybdate catalyst under redox cycling conditions studied with in situ multi edge XAS and XRD. Physical Chemistry Chemical Physics, 2020, 22, 11713-11723.	1.3	25
21	Systematic study on the influence of the morphology of Î±-MoO3 in the selective oxidation of propylene. Journal of Solid State Chemistry, 2015, 228, 42-52.	1.4	24
22	Catalytic Hydropyrolysis of Biomass Using Molybdenum Sulfide Based Catalyst. Effect of Promoters. Energy & Fuels, 2019, 33, 1302-1313.	2.5	24
23	Effect of the catalyst in fluid bed catalytic hydropyrolysis. Catalysis Today, 2020, 355, 96-109.	2.2	22
24	Catalytic hydropyrolysis of biomass using supported CoMo catalysts â€“ Effect of metal loading and support acidity. Fuel, 2020, 264, 116807.	3.4	22
25	Modeling of the molybdenum loss in iron molybdate catalyst pellets for selective oxidation of methanol to formaldehyde. Chemical Engineering Journal, 2019, 361, 1285-1295.	6.6	20
26	Structure analysis of supported disordered molybdenum oxides using pair distribution function analysis and automated cluster modelling. Journal of Applied Crystallography, 2020, 53, 148-158.	1.9	18
27	Alkali Earth Metal Molybdates as Catalysts for the Selective Oxidation of Methanol to Formaldehydeâ€”Selectivity, Activity, and Stability. Catalysts, 2020, 10, 82.	1.6	15
28	Tetrathiafulvalene-functionalized triptycenes: synthetic protocols and elucidation of intramolecular Coulomb repulsions in the oxidized species. Tetrahedron, 2007, 63, 8840-8854.	1.0	14
29	A Review and Experimental Revisit of Alternative Catalysts for Selective Oxidation of Methanol to Formaldehyde. Catalysts, 2021, 11, 1329.	1.6	14
30	Stability of Iron-Molybdate Catalysts for Selective Oxidation of Methanol to Formaldehyde: Influence of Preparation Method. Catalysis Letters, 2020, 150, 1434-1444.	1.4	13
31	Hydrodeoxygenation (HDO) of Aliphatic Oxygenates and Phenol over NiMo/MgAl2O4: Reactivity, Inhibition, and Catalyst Reactivation. Catalysts, 2019, 9, 521.	1.6	12
32	Using Transient XAS to Detect Minute Levels of Reversible S-O Exchange at the Active Sites of MoS₂-Based Hydrotreating Catalysts: Effect of Metal Loading, Promotion, Temperature, and Oxygenate Reactant. ACS Catalysis, 2022, 12, 633-647.	5.5	12
33	Deactivation of a CoMo Catalyst during Catalytic Hydropyrolysis of Biomass. Part 1. Product Distribution and Composition. Energy & Fuels, 2019, 33, 12374-12386.	2.5	11
34	Modeling of molybdenum transport and pressure drop increase in fixed bed reactors used for selective oxidation of methanol to formaldehyde using iron molybdate catalysts. Chemical Engineering Science, 2019, 202, 347-356.	1.9	11
35	Deactivation of a CoMo Catalyst during Catalytic Hydropyrolysis of Biomass. Part 2. Characterization of the Spent Catalysts and Char. Energy & Fuels, 2019, 33, 12387-12402.	2.5	10
36	Kinetic Modeling of Gas Phase Sugar Cracking to Glycolaldehyde and Other Oxygenates. ACS Sustainable Chemistry and Engineering, 2021, 9, 305-311.	3.2	10

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37	Nitrene-Carbene-Carbene Rearrangement. Photolysis and Thermolysis of Tetrazolo[5,1-a]phthalazine with Formation of 1-Phthalazinylnitrene, o-Cyanophenylcarbene, and Phenylcyanocarbene. Journal of Organic Chemistry, 2014, 79, 307-313.	1.7	8
38	Highly Stable Apatite Supported Molybdenum Oxide Catalysts for Selective Oxidation of Methanol to Formaldehyde: Structure, Activity and Stability. ChemCatChem, 2021, 13, 4954-4975.	1.8	6
39	The Influence of Active Phase Loading on the Hydrodeoxygenation (HDO) of Ethylene Glycol over Promoted MoS2/MgAl2O4 Catalysts. Topics in Catalysis, 2019, 62, 752-763.	1.3	4
40	Hydroxyapatite supported molybdenum oxide catalyst for selective oxidation of methanol to formaldehyde: studies of industrial sized catalyst pellets. Catalysis Science and Technology, 2021, 11, 970-983.	2.1	4