

# Martin Hj

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

785  
citations

18  
h-index

27  
g-index

40  
ext. papers

966  
ext. citations

6.6  
avg, IF

4.23  
L-index

#	Paper	IF	Citations
40	Using Transient XAS to Detect Minute Levels of Reversible S-O Exchange at the Active Sites of MoS <sub>2</sub> -Based Hydrotreating Catalysts: Effect of Metal Loading, Promotion, Temperature, and Oxygenate Reactant. <i>ACS Catalysis</i> , <b>2022</b> , 12, 633-647	13.1	1
39	Highly Stable Apatite Supported Molybdenum Oxide Catalysts for Selective Oxidation of Methanol to Formaldehyde: Structure, Activity and Stability. <i>ChemCatChem</i> , <b>2021</b> , 13, 4954	5.2	1
38	A Review and Experimental Revisit of Alternative Catalysts for Selective Oxidation of Methanol to Formaldehyde. <i>Catalysts</i> , <b>2021</b> , 11, 1329	4	0
37	Kinetic Modeling of Gas Phase Sugar Cracking to Glycolaldehyde and Other Oxygenates. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 305-311	8.3	3
36	A perspective on catalytic hydroxyprolysis of biomass. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 143, 110960	16.2	10
35	Hydroxyapatite supported molybdenum oxide catalyst for selective oxidation of methanol to formaldehyde: studies of industrial sized catalyst pellets. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 970-983	5.5	1
34	Structural dynamics of an iron molybdate catalyst under redox cycling conditions studied with in situ multi edge XAS and XRD. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11713-11723	3.6	7
33	Alkali Earth Metal Molybdates as Catalysts for the Selective Oxidation of Methanol to Formaldehyde: Selectivity, Activity, and Stability. <i>Catalysts</i> , <b>2020</b> , 10, 82	4	9
32	Structure analysis of supported disordered molybdenum oxides using pair distribution function analysis and automated cluster modelling. <i>Journal of Applied Crystallography</i> , <b>2020</b> , 53, 148-158	3.8	7
31	Thermal Cracking of Sugars for the Production of Glycolaldehyde and Other Small Oxygenates. <i>ChemSusChem</i> , <b>2020</b> , 13, 688-692	8.3	11
30	Stability of Iron-Molybdate Catalysts for Selective Oxidation of Methanol to Formaldehyde: Influence of Preparation Method. <i>Catalysis Letters</i> , <b>2020</b> , 150, 1434-1444	2.8	8
29	Catalytic hydroxyprolysis of biomass using supported CoMo catalysts: Effect of metal loading and support acidity. <i>Fuel</i> , <b>2020</b> , 264, 116807	7.1	11
28	Effect of the catalyst in fluid bed catalytic hydroxyprolysis. <i>Catalysis Today</i> , <b>2020</b> , 355, 96-109	5.3	17
27	Catalytic Hydroxyprolysis of Biomass Using Molybdenum Sulfide Based Catalyst. Effect of Promoters. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 1302-1313	4.1	21
26	Probing the Active Sites of MoS <sub>2</sub> Based Hydrotreating Catalysts Using Modulation Excitation Spectroscopy. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2568-2579	13.1	28
25	Hydrodeoxygenation (HDO) of Aliphatic Oxygenates and Phenol over NiMo/MgAl <sub>2</sub> O <sub>4</sub> : Reactivity, Inhibition, and Catalyst Reactivation. <i>Catalysts</i> , <b>2019</b> , 9, 521	4	9
24	New insights into the effect of pressure on catalytic hydroxyprolysis of biomass. <i>Fuel Processing Technology</i> , <b>2019</b> , 193, 392-403	7.2	20

23	Modeling of molybdenum transport and pressure drop increase in fixed bed reactors used for selective oxidation of methanol to formaldehyde using iron molybdate catalysts. <i>Chemical Engineering Science</i> , <b>2019</b> , 202, 347-356	4.4	9
22	The Influence of Active Phase Loading on the Hydrodeoxygenation (HDO) of Ethylene Glycol over Promoted MoS <sub>2</sub> /MgAl <sub>2</sub> O <sub>4</sub> Catalysts. <i>Topics in Catalysis</i> , <b>2019</b> , 62, 752-763	2.3	3
21	Operando XAS/XRD and Raman Spectroscopic Study of Structural Changes of the Iron Molybdate Catalyst during Selective Oxidation of Methanol. <i>ChemCatChem</i> , <b>2019</b> , 11, 4871-4883	5.2	16
20	Deactivation of a CoMo Catalyst during Catalytic Hydroxypropylation of Biomass. Part 1. Product Distribution and Composition. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 12374-12386	4.1	8
19	Deactivation of a CoMo Catalyst during Catalytic Hydroxypropylation of Biomass. Part 2. Characterization of the Spent Catalysts and Char. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 12387-12402	4.1	5
18	Modeling of the molybdenum loss in iron molybdate catalyst pellets for selective oxidation of methanol to formaldehyde. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 1285-1295	14.7	13
17	Hydrogen assisted catalytic biomass pyrolysis. Effect of temperature and pressure. <i>Biomass and Bioenergy</i> , <b>2018</b> , 115, 97-107	5.3	27
16	Deactivation behavior of an iron-molybdate catalyst during selective oxidation of methanol to formaldehyde. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 4626-4637	5.5	23
15	Influence of H <sub>2</sub> O and H <sub>2</sub> S on the composition, activity, and stability of sulfided Mo, CoMo, and NiMo supported on MgAl <sub>2</sub> O <sub>4</sub> for hydrodeoxygenation of ethylene glycol. <i>Applied Catalysis A: General</i> , <b>2018</b> , 551, 106-121	5.1	21
14	Transportation fuels from biomass fast pyrolysis, catalytic hydrodeoxygenation, and catalytic fast hydroxypropylation. <i>Progress in Energy and Combustion Science</i> , <b>2018</b> , 68, 268-309	33.6	122
13	The Effect of Pt Particle Size on the Oxidation of CO, C <sub>3</sub> H <sub>6</sub> , and NO Over Pt/Al <sub>2</sub> O <sub>3</sub> for Diesel Exhaust Aftertreatment. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 1333-1344	2.3	24
12	Systematic study on the influence of the morphology of γ-MoO <sub>3</sub> in the selective oxidation of propylene. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 228, 42-52	3.3	21
11	Bismuth Molybdate Catalysts Prepared by Mild Hydrothermal Synthesis: Influence of pH on the Selective Oxidation of Propylene. <i>Catalysts</i> , <b>2015</b> , 5, 1554-1573	4	27
10	Structure, activity and kinetics of supported molybdenum oxide and mixed molybdenum-vanadium oxide catalysts prepared by flame spray pyrolysis for propane OHD. <i>Applied Catalysis A: General</i> , <b>2014</b> , 472, 29-38	5.1	26
9	Nitrene-carbene-carbene rearrangement. Photolysis and thermolysis of tetrazolo[5,1-a]phthalazine with formation of 1-phthalazinylnitrene, o-cyanophenylcarbene, and phenylcyanocarbene. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 307-13	4.2	6
8	Selective oxidation of propylene to acrolein by hydrothermally synthesized bismuth molybdates. <i>Applied Catalysis A: General</i> , <b>2014</b> , 482, 145-156	5.1	35
7	One-step synthesis of bismuth molybdate catalysts via flame spray pyrolysis for the selective oxidation of propylene to acrolein. <i>Chemical Communications</i> , <b>2014</b> , 50, 15404-6	5.8	24
6	Structure of alumina supported vanadia catalysts for oxidative dehydrogenation of propane prepared by flame spray pyrolysis. <i>Applied Catalysis A: General</i> , <b>2013</b> , 451, 207-215	5.1	25

5	Two-Nozzle Flame Spray Pyrolysis (FSP) Synthesis of CoMo/Al <sub>2</sub> O <sub>3</sub> Hydrotreating Catalysts. <i>Catalysis Letters</i> , <b>2013</b> , 143, 386-394	2.8	21
4	Flame spray synthesis of CoMo/Al <sub>2</sub> O <sub>3</sub> hydrotreating catalysts. <i>Applied Catalysis A: General</i> , <b>2011</b> , 397, 201-208	5.1	37
3	Nature of Active Sites of Fe-Beta Catalyst for NO <sub>x</sub> -SCR by NH <sub>3</sub> . <i>Topics in Catalysis</i> , <b>2009</b> , 52, 1728-1733	2.3	21
2	The role of monomeric iron during the selective catalytic reduction of NO <sub>x</sub> by NH <sub>3</sub> over Fe-BEA zeolite catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 93, 166-176	21.8	93
1	Tetrathiafulvalene-functionalized triptycenes: synthetic protocols and elucidation of intramolecular Coulomb repulsions in the oxidized species. <i>Tetrahedron</i> , <b>2007</b> , 63, 8840-8854	2.4	14