

David Kubicka

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112
papers

4,452
citations

36
h-index

64
g-index

116
ext. papers

4,935
ext. citations

5.8
avg, IF

5.97
L-index

#	Paper	IF	Citations
112	Deoxygenation of vegetable oils over sulfided Ni, Mo and NiMo catalysts. <i>Applied Catalysis A: General</i> , 2010 , 372, 199-208	5.1	359
111	Hydroprocessed rapeseed oil as a source of hydrocarbon-based biodiesel. <i>Fuel</i> , 2009 , 88, 456-460	7.1	203
110	Deactivation of HDS catalysts in deoxygenation of vegetable oils. <i>Applied Catalysis A: General</i> , 2011 , 394, 9-17	5.1	170
109	Transformation of Vegetable Oils into Hydrocarbons over Mesoporous-Alumina-Supported CoMo Catalysts. <i>Topics in Catalysis</i> , 2009 , 52, 161-168	2.3	151
108	Utilization of Triglycerides and Related Feedstocks for Production of Clean Hydrocarbon Fuels and Petrochemicals: A Review. <i>Waste and Biomass Valorization</i> , 2010 , 1, 293-308	3.2	136
107	Fuel properties of hydroprocessed rapeseed oil. <i>Fuel</i> , 2010 , 89, 611-615	7.1	135
106	Application of Molecular Sieves in Transformations of Biomass and Biomass-Derived Feedstocks. <i>Catalysis Reviews - Science and Engineering</i> , 2013 , 55, 1-78	12.6	129
105	Overview of Analytical Methods Used for Chemical Characterization of Pyrolysis Bio-oil. <i>Energy & Fuels</i> , 2014 , 28, 385-402	4.1	128
104	Recent Advances in Reactions of Alkylbenzenes Over Novel Zeolites: The Effects of Zeolite Structure and Morphology. <i>Catalysis Reviews - Science and Engineering</i> , 2014 , 56, 333-402	12.6	124
103	Aldol condensation of furfural and acetone over MgAl layered double hydroxides and mixed oxides. <i>Catalysis Today</i> , 2014 , 223, 138-147	5.3	121
102	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. <i>Journal of Catalysis</i> , 2004 , 222, 65-79	7.3	117
101	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. <i>Journal of Catalysis</i> , 2004 , 227, 313-327	7.3	113
100	Premium quality renewable diesel fuel by hydroprocessing of sunflower oil. <i>Fuel</i> , 2011 , 90, 2473-2479	7.1	105
99	Aldol condensation of furfural and acetone on zeolites. <i>Catalysis Today</i> , 2014 , 227, 154-162	5.3	102
98	Metal-support interactions in zeolite-supported noble metals: influence of metal crystallites on the support acidity. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4937-46	3.4	99
97	Conversion of Vegetable Oils into Hydrocarbons over CoMo/MCM-41 Catalysts. <i>Topics in Catalysis</i> , 2010 , 53, 168-178	2.3	98
96	The role of Ni species in the deoxygenation of rapeseed oil over NiMo-alumina catalysts. <i>Applied Catalysis A: General</i> , 2011 , 397, 127-137	5.1	94

95	Effect of support-active phase interactions on the catalyst activity and selectivity in deoxygenation of triglycerides. <i>Applied Catalysis B: Environmental</i> , 2014 , 145, 101-107	21.8	93
94	Toward understanding of the role of Lewis acidity in aldol condensation of acetone and furfural using MOF and zeolite catalysts. <i>Catalysis Today</i> , 2015 , 243, 158-162	5.3	74
93	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. <i>Journal of Catalysis</i> , 2004 , 227, 313-327	7.3	71
92	Refinery co-processing of renewable feeds. <i>Progress in Energy and Combustion Science</i> , 2018 , 68, 29-64	33.6	68
91	Opportunities for zeolites in biomass upgradingLessons from the refining and petrochemical industry. <i>Catalysis Today</i> , 2015 , 243, 10-22	5.3	67
90	Hydrocracking of petroleum vacuum distillate containing rapeseed oil: Evaluation of diesel fuel. <i>Fuel</i> , 2010 , 89, 1508-1513	7.1	66
89	Future Refining Catalysis - Introduction of Biomass Feedstocks. <i>Collection of Czechoslovak Chemical Communications</i> , 2008 , 73, 1015-1044		66
88	Zeolite-Beta-supported platinum catalysts for hydrogenation/hydrodeoxygenation of pyrolysis oil model compounds. <i>Catalysis Today</i> , 2013 , 204, 38-45	5.3	65
87	Nanosized TiO ₂ À promising catalyst for the aldol condensation of furfural with acetone in biomass upgrading. <i>Catalysis Today</i> , 2016 , 277, 97-107	5.3	53
86	Lignin to liquids over sulfided catalysts. <i>Catalysis Today</i> , 2012 , 179, 191-198	5.3	50
85	Hydrotreatment of straw bio-oil from ablative fast pyrolysis to produce suitable refinery intermediates. <i>Fuel</i> , 2019 , 238, 98-110	7.1	50
84	Petroleomic Characterization of Pyrolysis Bio-oils: A Review. <i>Energy & Fuels</i> , 2017 , 31, 10283-10299	4.1	49
83	Comparative study of physico-chemical properties of laboratory and industrially prepared layered double hydroxides and their behavior in aldol condensation of furfural and acetone. <i>Catalysis Today</i> , 2015 , 241, 221-230	5.3	48
82	Transesterification of rapeseed oil by MgÀAl mixed oxides with various Mg/Al molar ratio. <i>Chemical Engineering Journal</i> , 2015 , 263, 160-167	14.7	42
81	Aldol condensation of furfural with acetone over ion-exchanged and impregnated potassium BEA zeolites. <i>Journal of Molecular Catalysis A</i> , 2016 , 424, 358-368		41
80	Peculiar behavior of MWW materials in aldol condensation of furfural and acetone. <i>Dalton Transactions</i> , 2014 , 43, 10628-41	4.3	40
79	Influence of MgÀAl Mixed Oxide Compositions on Their Properties and Performance in Aldol Condensation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13411-13422	3.9	39
78	Bio-oil hydrotreating over conventional CoMo & NiMo catalysts: The role of reaction conditions and additives. <i>Fuel</i> , 2017 , 198, 49-57	7.1	37

77	HDO catalysts for triglycerides conversion into pyrolysis and isomerization feedstock. <i>Fuel</i> , 2014 , 121, 57-64	7.1	36
76	Reconstructed Mg-Al hydrotalcites prepared by using different rehydration and drying time: Physico-chemical properties and catalytic performance in aldol condensation. <i>Applied Catalysis A: General</i> , 2017 , 536, 85-96	5.1	35
75	Application of orbitrap mass spectrometry for analysis of model bio-oil compounds and fast pyrolysis bio-oils from different biomass sources. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 124, 230-238	6	35
74	Quantitative Study of Straw Bio-oil Hydrodeoxygenation over a Sulfided NiMo Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7080-7093	8.3	34
73	Gas transport properties and pervaporation performance of fluoropolymer gel membranes based on pure and mixed ionic liquids. <i>Separation and Purification Technology</i> , 2013 , 109, 87-97	8.3	33
72	Ring Opening of Decalin Over Zeolite-Supported Iridium Catalysts. <i>Topics in Catalysis</i> , 2010 , 53, 1438-1445	5.3	33
71	Catalytic pyrolysis of low density polyethylene over H- β -Y, H-Mordenite, and H-Ferrierite zeolite catalysts: Influence of acidity and structures. <i>Kinetics and Catalysis</i> , 2007 , 48, 535-540	1.5	33
70	Unprecedented selectivities in aldol condensation over MgAl hydrotalcite in a fixed bed reactor setup. <i>Catalysis Communications</i> , 2015 , 58, 89-92	3.2	32
69	Characterization of potassium-modified FAU zeolites and their performance in aldol condensation of furfural and acetone. <i>Applied Catalysis A: General</i> , 2018 , 549, 8-18	5.1	31
68	The role of alumina support in the deoxygenation of rapeseed oil over NiMo/Alumina catalysts. <i>Catalysis Today</i> , 2011 , 176, 409-412	5.3	29
67	The occurrence of Cannizzaro reaction over Mg-Al hydrotalcites. <i>Applied Catalysis A: General</i> , 2016 , 525, 215-225	5.1	28
66	Quantitative analysis of pyrolysis bio-oils: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 126, 1158576	5.7	27
65	Chemical Characterization of Pyrolysis Bio-oil: Application of Orbitrap Mass Spectrometry. <i>Energy & Fuels</i> , 2015 , 29, 3233-3240	4.1	26
64	Towards understanding the hydrodeoxygenation pathways of furfural/acetone aldol condensation products over supported Pt catalysts. <i>Catalysis Science and Technology</i> , 2016 , 6, 1829-1841	5.5	25
63	Catalytic co-hydroprocessing of gasoil/palm oil/AVO mixtures over a NiMo/Al ₂ O ₃ catalyst. <i>Fuel</i> , 2014 , 116, 49-55	7.1	25
62	The effect of oxygenates structure on their deoxygenation over USY zeolite. <i>Catalysis Today</i> , 2013 , 204, 46-53	5.3	25
61	Ring-opening of decalin [Kinetic modelling. <i>Fuel</i> , 2009 , 88, 366-373	7.1	25
60	(V)/Hydrotalcite, (V)/Al ₂ O ₃ , (V)/TiO ₂ and (V)/SBA-15 catalysts for the partial oxidation of ethanol to acetaldehyde. <i>Journal of Molecular Catalysis A</i> , 2016 , 420, 178-189		23

59	The Effect of Thermal Pre-Treatment on Structure, Composition, Basicity and Catalytic Activity of Mg/Al Mixed Oxides. <i>Topics in Catalysis</i> , 2013 , 56, 586-593	2.3	22
58	On the mutual interactions between noble metal crystallites and zeolitic supports and their impacts on catalysis. <i>Journal of Molecular Catalysis A</i> , 2007 , 264, 192-201		22
57	Solvent effects in hydrodeoxygenation of furfural-acetone aldol condensation products over Pt/TiO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2017 , 530, 174-183	5.1	20
56	Activity of Molybdenum Oxide Catalyst Supported on Al ₂ O ₃ , TiO ₂ , and SiO ₂ Matrix in the Oxidative Dehydrogenation of n-Butane. <i>Topics in Catalysis</i> , 2015 , 58, 866-876	2.3	19
55	Hydrodeoxygenation of Isoeugenol over Ni- and Co-Supported Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14545-14560	8.3	19
54	The development of the method of low-temperature peat pyrolysis on the basis of aluminosilicate catalytic system. <i>Chemical Engineering Journal</i> , 2007 , 134, 162-167	14.7	19
53	Extra-Large-Pore Zeolites with UTL Topology: Control of the Catalytic Activity by Variation in the Nature of the Active Sites. <i>ChemCatChem</i> , 2013 , 5, 1891-1898	5.2	18
52	Catalytic Transfer Hydrogenation of Furfural over Co ₃ O ₄ /Al ₂ O ₃ Hydrotalcite-derived Catalyst. <i>ChemCatChem</i> , 2020 , 12, 1467-1475	5.2	18
51	Aspects of Mg/Al mixed oxide activity in transesterification of rapeseed oil in a fixed-bed reactor. <i>Fuel Processing Technology</i> , 2014 , 122, 176-181	7.2	17
50	Hydrotreating of Triglyceride-Based Feedstocks in Refineries. <i>Advances in Chemical Engineering</i> , 2013 , 141-194	0.6	17
49	Synthesis of Ru-modified MCM-41 Mesoporous Material, Y and Beta Zeolite Catalysts for Ring Opening of Decalin. <i>Topics in Catalysis</i> , 2009 , 52, 380-386	2.3	17
48	Aldose to ketose interconversion: galactose and arabinose isomerization over heterogeneous catalysts. <i>Catalysis Science and Technology</i> , 2017 , 7, 5321-5331	5.5	16
47	Physico-Chemical Properties of Mg/Ga Mixed Oxides and Reconstructed Layered Double Hydroxides and Their Performance in Aldol Condensation of Furfural and Acetone. <i>Frontiers in Chemistry</i> , 2018 , 6, 176	5	16
46	Fischer-Tropsch product as a co-feed for refinery hydrocracking unit. <i>Fuel</i> , 2013 , 105, 432-439	7.1	16
45	Using Mg-Al Mixed Oxide and Reconstructed Hydrotalcite as Basic Catalysts for Aldol Condensation of Furfural and Cyclohexanone. <i>ChemCatChem</i> , 2018 , 10, 1464-1475	5.2	15
44	Upgrading of Fischer-Tropsch Waxes by Fluid Catalytic Cracking. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8849-8857	3.9	15
43	Conversion of ethanol to acetaldehyde over VOX-SiO ₂ catalysts: the effects of support texture and vanadium speciation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 121, 353-369	1.6	14
42	Clinoptilolite foams prepared by alkali activation of natural zeolite and their post-synthesis modifications. <i>Microporous and Mesoporous Materials</i> , 2019 , 282, 169-178	5.3	14

41	CuZn Catalysts Superior to Adkins Catalysts for Dimethyl Adipate Hydrogenolysis. <i>ChemCatChem</i> , 2019 , 11, 2169-2178	5.2	12
40	Reaction Routes in Selective Ring Opening of Naphthenes. <i>Topics in Catalysis</i> , 2010 , 53, 1172-1175	2.3	12
39	On the importance of transesterification by-products during hydrogenolysis of dimethyl adipate to hexanediol. <i>Catalysis Communications</i> , 2018 , 111, 16-20	3.2	11
38	The comparison of Co, Ni, Mo, CoMo and NiMo sulfided catalysts in rapeseed oil hydrodeoxygenation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 122, 333-341	1.6	11
37	Improved kinetic data from analysis of complex hydrocarbon mixtures by using SIMCA. <i>Analytica Chimica Acta</i> , 2005 , 537, 339-348	6.6	11
36	Efficient One-Stage Bio-Oil Upgrading over Sulfided Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15149-15167	8.3	10
35	On the influence of acidic admixtures in furfural on the performance of MgAl mixed oxide catalysts in aldol condensation of furfural and acetone. <i>Catalysis Today</i> , 2021 , 367, 248-257	5.3	10
34	Bio-based refinery intermediate production via hydrodeoxygenation of fast pyrolysis bio-oil. <i>Renewable Energy</i> , 2021 , 168, 593-605	8.1	10
33	Decalin ring opening reactions on ruthenium-containing zeolite MCM-41. <i>Petroleum Chemistry</i> , 2009 , 49, 90-93	1.1	9
32	Non-traditional three-phase reactor setup for simultaneous acoustic irradiation and hydrogenation. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 203-207	3.5	9
31	Effect of Calcination Atmosphere and Temperature on the Hydrogenolysis Activity and Selectivity of Copper-Zinc Catalysts. <i>Catalysts</i> , 2018 , 8, 446	4	9
30	On the way to improve cetane number in diesel fuels: Ring opening of decalin over Ir-modified embedded mesoporous materials. <i>Catalysis in Industry</i> , 2013 , 5, 105-122	0.8	8
29	Does the structure of CuZn hydroxycarbonate precursors affect the intrinsic hydrogenolysis activity of CuZn catalysts?. <i>Catalysis Science and Technology</i> , 2020 , 10, 3303-3314	5.5	6
28	Studies on Sodium Lignosulfonate Depolymerization Over Al ₂ O ₃ Supported Catalysts Loaded with Metals and Metal Oxides in a Continuous Flow Reactor. <i>Topics in Catalysis</i> , 2013 , 56, 794-799	2.3	6
27	Synthesis of Pt-modified MCM-41 mesoporous molecular sieve catalysts: influence of methods of Pt introduction in MCM-41 on physico-chemical and catalytic properties for ring opening of decalin. <i>Studies in Surface Science and Catalysis</i> , 2006 , 401-408	1.8	6
26	Ring opening of decalin over Pt-and Ir-modified SAPO-5 and VPI-5 zeolite catalysts. <i>Studies in Surface Science and Catalysis</i> , 2005 , 158, 1669-1676	1.8	6
25	The role of ZnO in the catalytic behaviour of Zn-Al mixed oxides in aldol condensation of furfural with acetone. <i>Catalysis Today</i> , 2021 , 379, 181-191	5.3	6
24	Aspects of stability of K/Al ₂ O ₃ catalysts for the transesterification of rapeseed oil in batch and fixed-bed reactors. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 1084-1090	11.3	5

23	Fuels from Reliable Bio-based Refinery Intermediates: BioMates. <i>Waste and Biomass Valorization</i> , 2020 , 11, 579-598	3.2	5
22	Hydrogenation of Bio-Oil Model Compounds over Raney-Ni at Ambient Pressure. <i>Catalysts</i> , 2019 , 9, 268-4	4	4
21	Catalytic conversion of furfural-acetone condensation products into bio-derived C8 linear alcohols over NiCu/Al-SBA-15. <i>Catalysis Communications</i> , 2018 , 114, 42-45	3.2	4
20	One-pot citral transformation to menthol over bifunctional micro- and mesoporous metal modified catalysts: Effect of catalyst support and metal. <i>Journal of Molecular Catalysis A</i> , 2005 ,		4
19	Do metal-oxide promoters of Cu hydrogenolysis catalysts affect the Cu intrinsic activity?. <i>Applied Catalysis A: General</i> , 2020 , 608, 117889	5.1	3
18	On the origin of the transesterification reaction route during dimethyl adipate hydrogenolysis. <i>Applied Catalysis A: General</i> , 2020 , 606, 117825	5.1	3
17	Partial oxidation of ethanol over ZrO ₂ -supported vanadium catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 121, 161-173	1.6	2
16	Novel Polymer/Silica Composite-Based Bifunctional Catalysts for Hydrodeoxygenation of 4-(2-Furyl)-3-Buten-2-One as Model Substance for Furfural/Acetone Aldol Condensation Products. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2438	2.6	2
15	Classification and pattern recognition of acyclic octenes based on mass spectra. <i>Talanta</i> , 2007 , 72, 1573-80	6.0	2
14	Effect of Temperature on the Hydrotreatment of Sewage Sludge-Derived Pyrolysis Oil and Behavior of Ni-Based Catalyst. <i>Catalysts</i> , 2020 , 10, 1273	4	2
13	Towards efficient Cu/ZnO catalysts for ester hydrogenolysis: The role of synthesis method. <i>Applied Catalysis A: General</i> , 2021 , 624, 118320	5.1	2
12	Alternative Preparation of Improved NiMo-Alumina Deoxygenation Catalysts. <i>Frontiers in Chemistry</i> , 2020 , 8, 216	5	1
11	Thermodynamic balance in reaction system of total vegetable oil hydrogenation. <i>Chemical Engineering Journal</i> , 2008 ,	14.7	1
10	Liquid-phase hydrogenation of diethylbenzenes. <i>Catalysis Today</i> , 2005 , 100, 453-456	5.3	1
9	Upgrading of Lipids to Hydrocarbon Fuels via (Hydro)deoxygenation 2020 , 469-496		1
8	Critical evaluation of parameters affecting Cu nanoparticles formation and their activity in dimethyl adipate hydrogenolysis. <i>Catalysis Today</i> , 2021 ,	5.3	1
7	Improved bio-oil upgrading due to optimized reactor temperature profile. <i>Fuel Processing Technology</i> , 2021 , 222, 106977	7.2	1
6	Integration of stabilized bio-oil in light cycle oil hydrotreatment unit targeting hybrid fuels. <i>Fuel Processing Technology</i> , 2022 , 230, 107220	7.2	1

5	Understanding of the Key Factors Determining the Activity and Selectivity of CuZn Catalysts in Hydrogenolysis of Alkyl Esters to Alcohols. <i>Catalysts</i> , 2021 , 11, 1417	4	○
4	On the Effect of the M3+ Origin on the Properties and Aldol Condensation Performance of MgM3+ Hydrotalcites and Mixed Oxides. <i>Catalysts</i> , 2021 , 11, 992	4	○
3	Highly effective Pd/ZSM-12 bifunctional catalysts by in-situ glow discharge plasma reduction: the effect of metal function on the catalytic performance for n-hexadecane hydroisomerization. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 134, 104303	5.3	○
2	The promotion effects of MoOx species in the highly effective NiMo/MgAl2O4 catalysts for the hydrodeoxygenation of methyl palmitate. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107761	6.8	○
1	Fading memory of MgAl hydrotalcites at mild rehydration conditions deteriorates their performance in aldol condensation. <i>Applied Catalysis A: General</i> , 2022 , 632, 118482	5.1	