David Kubicka

List of Publications by Year in Descending Order

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	Fading memory of MgAl hydrotalcites at mild rehydration conditions deteriorates their performance in aldol condensation. *Applied Catalysis A: General*, **2022**, 632, 118482	5.1	
111	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. *Journal of the Taiwan Institute of Chemical Engineers*, **2022**, 134, 104303	5.3	0
110	Integration of stabilized bio-oil in light cycle oil hydrotreatment unit targeting hybrid fuels. *Fuel Processing Technology*, **2022**, 230, 107220	7.2	1
109	The promotion effects of MoOx species in the highly effective NiMo/MgAl2O4 catalysts for the hydrodeoxygenation of methyl palmitate. *Journal of Environmental Chemical Engineering*, **2022**, 107761	6.8	0
108	Understanding of the Key Factors Determining the Activity and Selectivity of CuZn Catalysts in Hydrogenolysis of Alkyl Esters to Alcohols. *Catalysts*, **2021**, 11, 1417	4	0
107	On the influence of acidic admixtures in furfural on the performance of MgAl mixed oxide catalysts in aldol condensation of furfural and acetone. *Catalysis Today*, **2021**, 367, 248-257	5.3	10
106	The role of ZnO in the catalytic behaviour of Zn-Al mixed oxides in aldol condensation of furfural with acetone. *Catalysis Today*, **2021**, 379, 181-191	5.3	6
105	Bio-based refinery intermediate production via hydrodeoxygenation of fast pyrolysis bio-oil. *Renewable Energy*, **2021**, 168, 593-605	8.1	10
104	Towards efficient Cu/ZnO catalysts for ester hydrogenolysis: The role of synthesis method. *Applied Catalysis A: General*, **2021**, 624, 118320	5.1	2
103	On the Effect of the M3+ Origin on the Properties and Aldol Condensation Performance of MgM3+ Hydrotalcites and Mixed Oxides. *Catalysts*, **2021**, 11, 992	4	0
102	Critical evaluation of parameters affecting Cu nanoparticles formation and their activity in dimethyl adipate hydrogenolysis. *Catalysis Today*, **2021**,	5.3	1
101	Improved bio-oil upgrading due to optimized reactor temperature profile. *Fuel Processing Technology*, **2021**, 222, 106977	7.2	1
100	Do metal-oxide promoters of Cu hydrogenolysis catalysts affect the Cu intrinsic activity?. *Applied Catalysis A: General*, **2020**, 608, 117889	5.1	3
99	Alternative Preparation of Improved NiMo-Alumina Deoxygenation Catalysts. *Frontiers in Chemistry* , **2020**, 8, 216	5	1
98	Quantitative analysis of pyrolysis bio-oils: A review. *TrAC - Trends in Analytical Chemistry*, **2020**, 126, 115854	5.6	27
97	Does the structure of CuZn hydroxycarbonate precursors affect the intrinsic hydrogenolysis activity of CuZn catalysts?. *Catalysis Science and Technology*, **2020**, 10, 3303-3314	5.5	6
96	Upgrading of Lipids to Hydrocarbon Fuels via (Hydro)deoxygenation **2020**, 469-496		1

95	Catalytic Transfer Hydrogenation of Furfural over Co3O4/Al2O3 Hydrotalcite-derived Catalyst. *ChemCatChem*, **2020**, 12, 1467-1475	5.2	18
94	Efficient One-Stage Bio-Oil Upgrading over Sulfided Catalysts. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15149-15167	8.3	10
93	Effect of Temperature on the Hydrotreatment of Sewage Sludge-Derived Pyrolysis Oil and Behavior of Ni-Based Catalyst. *Catalysts*, **2020**, 10, 1273	4	2
92	On the origin of the transesterification reaction route during dimethyl adipate hydrogenolysis. *Applied Catalysis A: General*, **2020**, 606, 117825	5.1	3
91	Fuels from Reliable Bio-based Refinery Intermediates: BioMates. *Waste and Biomass Valorization*, **2020**, 11, 579-598	3.2	5
90	Hydrogenation of Bio-Oil Model Compounds over Raney-Ni at Ambient Pressure. *Catalysts*, **2019**, 9, 268	4	4
89	Quantitative Study of Straw Bio-oil Hydrodeoxygenation over a Sulfided NiMo Catalyst. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7080-7093	8.3	34
88	CuZn Catalysts Superior to Adkins Catalysts for Dimethyl Adipate Hydrogenolysis. *ChemCatChem*, **2019**, 11, 2169-2178	5.2	12
87	Clinoptilolite foams prepared by alkali activation of natural zeolite and their post-synthesis modifications. *Microporous and Mesoporous Materials*, **2019**, 282, 169-178	5.3	14
86	Hydrodeoxygenation of Isoeugenol over Ni- and Co-Supported Catalysts. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14545-14560	8.3	19
85	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. *Applied Sciences (Switzerland)*, **2019**, 9, 2438	2.6	2
84	Hydrotreatment of straw bio-oil from ablative fast pyrolysis to produce suitable refinery intermediates. *Fuel*, **2019**, 238, 98-110	7.1	50
83	Using Mg-Al Mixed Oxide and Reconstructed Hydrotalcite as Basic Catalysts for Aldol Condensation of Furfural and Cyclohexanone. *ChemCatChem*, **2018**, 10, 1464-1475	5.2	15
82	Refinery co-processing of renewable feeds. *Progress in Energy and Combustion Science*, **2018**, 68, 29-64	33.6	68
81	On the importance of transesterification by-products during hydrogenolysis of dimethyl adipate to hexanediol. *Catalysis Communications*, **2018**, 111, 16-20	3.2	11
80	Characterization of potassium-modified FAU zeolites and their performance in aldol condensation of furfural and acetone. *Applied Catalysis A: General*, **2018**, 549, 8-18	5.1	31
79	Physico-Chemical Properties of MgGa Mixed Oxides and Reconstructed Layered Double Hydroxides and Their Performance in Aldol Condensation of Furfural and Acetone. *Frontiers in Chemistry*, **2018**, 6, 176	5	16
78	Catalytic conversion of furfural-acetone condensation products into bio-derived C8 linear alcohols over NiCu/Al-SBA-15. *Catalysis Communications*, **2018**, 114, 42-45	3.2	4

77	Effect of Calcination Atmosphere and Temperature on the Hydrogenolysis Activity and Selectivity of Copper-Zinc Catalysts. *Catalysts*, **2018**, 8, 446	4	9
76	Partial oxidation of ethanol over ZrO2-supported vanadium catalysts. *Reaction Kinetics, Mechanisms and Catalysis*, **2017**, 121, 161-173	1.6	2
75	Reconstructed Mg-Al hydrotalcites prepared by using different rehydration and drying time: Physico-chemical properties and catalytic performance in aldol condensation. *Applied Catalysis A: General*, **2017**, 536, 85-96	5.1	35
74	Conversion of ethanol to acetaldehyde over VOX-SiO2 catalysts: the effects of support texture and vanadium speciation. *Reaction Kinetics, Mechanisms and Catalysis*, **2017**, 121, 353-369	1.6	14
73	Aldose to ketose interconversion: galactose and arabinose isomerization over heterogeneous catalysts. *Catalysis Science and Technology*, **2017**, 7, 5321-5331	5.5	16
72	Application of orbitrap mass spectrometry for analysis of model bio-oil compounds and fast pyrolysis bio-oils from different biomass sources. *Journal of Analytical and Applied Pyrolysis*, **2017**, 124, 230-238	6	35
71	Influence of MgAl Mixed Oxide Compositions on Their Properties and Performance in Aldol Condensation. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13411-13422	3.9	39
70	The comparison of Co, Ni, Mo, CoMo and NiMo sulfided catalysts in rapeseed oil hydrodeoxygenation. *Reaction Kinetics, Mechanisms and Catalysis*, **2017**, 122, 333-341	1.6	11
69	Petroleomic Characterization of Pyrolysis Bio-oils: A Review. *Energy & Fuels*, **2017**, 31, 10283-10299	4.1	49
68	Bio-oil hydrotreating over conventional CoMo & NiMo catalysts: The role of reaction conditions and additives. *Fuel*, **2017**, 198, 49-57	7.1	37
67	Solvent effects in hydrodeoxygenation of furfural-acetone aldol condensation products over Pt/TiO2 catalyst. *Applied Catalysis A: General*, **2017**, 530, 174-183	5.1	20
66	Nanosized TiO2A promising catalyst for the aldol condensation of furfural with acetone in biomass upgrading. *Catalysis Today*, **2016**, 277, 97-107	5.3	53
65	Towards understanding the hydrodeoxygenation pathways of furfuralacetone aldol condensation products over supported Pt catalysts. *Catalysis Science and Technology*, **2016**, 6, 1829-1841	5.5	25
64	(V)/Hydrotalcite, (V)/Al2O3, (V)/TiO2 and (V)/SBA-15 catalysts for the partial oxidation of ethanol to acetaldehyde. *Journal of Molecular Catalysis A*, **2016**, 420, 178-189		23
63	Aldol condensation of furfural with acetone over ion-exchanged and impregnated potassium BEA zeolites. *Journal of Molecular Catalysis A*, **2016**, 424, 358-368		41
62	The occurrence of Cannizzaro reaction over Mg-Al hydrotalcites. *Applied Catalysis A: General*, **2016**, 525, 215-225	5.1	28
61	Chemical Characterization of Pyrolysis Bio-oil: Application of Orbitrap Mass Spectrometry. *Energy & Fuels*, **2015**, 29, 3233-3240	4.1	26
60	Activity of Molybdenum Oxide Catalyst Supported on Al2O3, TiO2, and SiO2 Matrix in the Oxidative Dehydrogenation of n-Butane. *Topics in Catalysis*, **2015**, 58, 866-876	2.3	19

59	Comparative study of physico-chemical properties of laboratory and industrially prepared layered double hydroxides and their behavior in aldol condensation of furfural and acetone. *Catalysis Today* , **2015**, 241, 221-230	5.3	48
58	Opportunities for zeolites in biomass upgrading—lessons from the refining and petrochemical industry. *Catalysis Today*, **2015**, 243, 10-22	5.3	67
57	Transesterification of rapeseed oil by MgAl mixed oxides with various Mg/Al molar ratio. *Chemical Engineering Journal*, **2015**, 263, 160-167	14.7	42
56	Toward understanding of the role of Lewis acidity in aldol condensation of acetone and furfural using MOF and zeolite catalysts. *Catalysis Today*, **2015**, 243, 158-162	5.3	74
55	Unprecedented selectivities in aldol condensation over MgAl hydrotalcite in a fixed bed reactor setup. *Catalysis Communications*, **2015**, 58, 89-92	3.2	32
54	HDO catalysts for triglycerides conversion into pyrolysis and isomerization feedstock. *Fuel*, **2014**, 121, 57-64	7.1	36
53	Aldol condensation of furfural and acetone over MgAl layered double hydroxides and mixed oxides. *Catalysis Today*, **2014**, 223, 138-147	5.3	121
52	Aspects of MgAl mixed oxide activity in transesterification of rapeseed oil in a fixed-bed reactor. *Fuel Processing Technology*, **2014**, 122, 176-181	7.2	17
51	Catalytic co-hydroprocessing of gasoil–palm oil/AVO mixtures over a NiMo/Al2O3 catalyst. *Fuel*, **2014**, 116, 49-55	7.1	25
50	Effect of support-active phase interactions on the catalyst activity and selectivity in deoxygenation of triglycerides. *Applied Catalysis B: Environmental*, **2014**, 145, 101-107	21.8	93
49	Peculiar behavior of MWW materials in aldol condensation of furfural and acetone. *Dalton Transactions*, **2014**, 43, 10628-41	4.3	40
48	Aspects of stability of K/Al2O3 catalysts for the transesterification of rapeseed oil in batch and fixed-bed reactors. *Chinese Journal of Catalysis*, **2014**, 35, 1084-1090	11.3	5
47	Recent Advances in Reactions of Alkylbenzenes Over Novel Zeolites: The Effects of Zeolite Structure and Morphology. *Catalysis Reviews - Science and Engineering*, **2014**, 56, 333-402	12.6	124
46	Aldol condensation of furfural and acetone on zeolites. *Catalysis Today*, **2014**, 227, 154-162	5.3	102
45	Overview of Analytical Methods Used for Chemical Characterization of Pyrolysis Bio-oil. *Energy & Fuels*, **2014**, 28, 385-402	4.1	128
44	On the way to improve cetane number in diesel fuels: Ring opening of decalin over Ir-modified embedded mesoporous materials. *Catalysis in Industry*, **2013**, 5, 105-122	0.8	8
43	The Effect of Thermal Pre-Treatment on Structure, Composition, Basicity and Catalytic Activity of Mg/Al Mixed Oxides. *Topics in Catalysis*, **2013**, 56, 586-593	2.3	22
42	Studies on Sodium Lignosulfonate Depolymerization Over Al2O3 Supported Catalysts Loaded with Metals and Metal Oxides in a Continuous Flow Reactor. *Topics in Catalysis*, **2013**, 56, 794-799	2.3	6

41	Gas transport properties and pervaporation performance of fluoropolymer gel membranes based on pure and mixed ionic liquids. *Separation and Purification Technology*, **2013**, 109, 87-97	8.3	33
40	Hydrotreating of Triglyceride-Based Feedstocks in Refineries. *Advances in Chemical Engineering*, **2013**, 141-194	0.6	17
39	Application of Molecular Sieves in Transformations of Biomass and Biomass-Derived Feedstocks. *Catalysis Reviews - Science and Engineering*, **2013**, 55, 1-78	12.6	129
38	The effect of oxygenates structure on their deoxygenation over USY zeolite. *Catalysis Today*, **2013**, 204, 46-53	5.3	25
37	Zeolite-Beta-supported platinum catalysts for hydrogenation/hydrodeoxygenation of pyrolysis oil model compounds. *Catalysis Today*, **2013**, 204, 38-45	5.3	65
36	Extra-Large-Pore Zeolites with UTL Topology: Control of the Catalytic Activity by Variation in the Nature of the Active Sites. *ChemCatChem*, **2013**, 5, 1891-1898	5.2	18
35	Fischer□ropsch product as a co-feed for refinery hydrocracking unit. *Fuel*, **2013**, 105, 432-439	7.1	16
34	Upgrading of Fischer□ropsch Waxes by Fluid Catalytic Cracking. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8849-8857	3.9	15
33	Lignin to liquids over sulfided catalysts. *Catalysis Today*, **2012**, 179, 191-198	5.3	50
32	The role of alumina support in the deoxygenation of rapeseed oil over NiMo□lumina catalysts. *Catalysis Today*, **2011**, 176, 409-412	5.3	29
31	The role of Ni species in the deoxygenation of rapeseed oil over NiMo-alumina catalysts. *Applied Catalysis A: General*, **2011**, 397, 127-137	5.1	94
30	Premium quality renewable diesel fuel by hydroprocessing of sunflower oil. *Fuel*, **2011**, 90, 2473-2479	7.1	105
29	Deactivation of HDS catalysts in deoxygenation of vegetable oils. *Applied Catalysis A: General*, **2011**, 394, 9-17	5.1	170
28	Utilization of Triglycerides and Related Feedstocks for Production of Clean Hydrocarbon Fuels and Petrochemicals: A Review. *Waste and Biomass Valorization*, **2010**, 1, 293-308	3.2	136
27	Conversion of Vegetable Oils into Hydrocarbons over CoMo/MCM-41 Catalysts. *Topics in Catalysis*, **2010**, 53, 168-178	2.3	98
26	Reaction Routes in Selective Ring Opening of Naphthenes. *Topics in Catalysis*, **2010**, 53, 1172-1175	2.3	12
25	Ring Opening of Decalin Over Zeolite-Supported Iridium Catalysts. *Topics in Catalysis*, **2010**, 53, 1438-1445	2.3	33
24	Fuel properties of hydroprocessed rapeseed oil. *Fuel*, **2010**, 89, 611-615	7.1	135

23	Hydrocracking of petroleum vacuum distillate containing rapeseed oil: Evaluation of diesel fuel. *Fuel*, **2010**, 89, 1508-1513	7.1	66
22	Deoxygenation of vegetable oils over sulfided Ni, Mo and NiMo catalysts. *Applied Catalysis A: General*, **2010**, 372, 199-208	5.1	359
21	Transformation of Vegetable Oils into Hydrocarbons over Mesoporous-Alumina-Supported CoMo Catalysts. *Topics in Catalysis*, **2009**, 52, 161-168	2.3	151
20	Synthesis of Ru-modified MCM-41 Mesoporous Material, Y and Beta Zeolite Catalysts for Ring Opening of Decalin. *Topics in Catalysis*, **2009**, 52, 380-386	2.3	17
19	Ring-opening of decalin Kinetic modelling. *Fuel*, **2009**, 88, 366-373	7.1	25
18	Hydroprocessed rapeseed oil as a source of hydrocarbon-based biodiesel. *Fuel*, **2009**, 88, 456-460	7.1	203
17	Decalin ring opening reactions on ruthenium-containing zeolite MCM-41. *Petroleum Chemistry*, **2009**, 49, 90-93	1.1	9
16	Future Refining Catalysis - Introduction of Biomass Feedstocks. *Collection of Czechoslovak Chemical Communications*, **2008**, 73, 1015-1044		66
15	Thermodynamic balance in reaction system of total vegetable oil hydrogenation. *Chemical Engineering Journal*, **2008**,	14.7	1
14	The development of the method of low-temperature peat pyrolysis on the basis of alumosilicate catalytic system. *Chemical Engineering Journal*, **2007**, 134, 162-167	14.7	19
13	On the mutual interactions between noble metal crystallites and zeolitic supports and their impacts on catalysis. *Journal of Molecular Catalysis A*, **2007**, 264, 192-201		22
12	Catalytic pyrolysis of low density polyethylene over H- H-Y, H-Mordenite, and H-Ferrierite zeolite catalysts: Influence of acidity and structures. *Kinetics and Catalysis*, **2007**, 48, 535-540	1.5	33
11	Classification and pattern recognition of acyclic octenes based on mass spectra. *Talanta*, **2007**, 72, 1573-80	6.2	2
10	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. *Studies in Surface Science and Catalysis*, **2006**, 401-408	1.8	6
9	Metal-support interactions in zeolite-supported noble metals: influence of metal crystallites on the support acidity. *Journal of Physical Chemistry B*, **2006**, 110, 4937-46	3.4	99
8	One-pot citral transformation to menthol over bifunctional micro- and mesoporous metal modified catalysts: Effect of catalyst support and metal. *Journal of Molecular Catalysis A*, **2005**,		4
7	Liquid-phase hydrogenation of diethylbenzenes. *Catalysis Today*, **2005**, 100, 453-456	5.3	1
6	Improved kinetic data from analysis of complex hydrocarbon mixtures by using SIMCA. *Analytica Chimica Acta*, **2005**, 537, 339-348	6.6	11

5	Ring opening of decalin over Pt-and Ir-modified SAPO-5 and VPI-5 zeolite catalysts. *Studies in Surface Science and Catalysis*, **2005**, 158, 1669-1676	1.8	6
4	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. *Journal of Catalysis*, **2004**, 227, 313-327	7.3	113
3	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. *Journal of Catalysis*, **2004**, 222, 65-79	7.3	117
2	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. *Journal of Catalysis*, **2004**, 227, 313-327	7.3	71
1	Non-traditional three-phase reactor setup for simultaneous acoustic irradiation and hydrogenation. *Journal of Chemical Technology and Biotechnology*, **2003**, 78, 203-207	3.5	9