David KubiÄka

List of Publications by Year
in descending order

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114	5,512	70961	85405
papers	citations	41	71
		h-index	g-index

116	116	116	4114
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydroconversion of sunflower oil to fatty alcohols and hydrocarbons using CuZn and CuZn-HBEA-based catalysts. Catalysis Today, 2023, 424, 113841.	2.2	1
2	Understanding of the key properties of supported Cu-based catalysts and their influence on ester hydrogenolysis. Catalysis Today, 2022, 397-399, 173-181.	2.2	5
3	Critical evaluation of parameters affecting Cu nanoparticles formation and their activity in dimethyl adipate hydrogenolysis. Catalysis Today, 2022, 387, 61-71.	2.2	4
4	Semiâ€Batch Hydrotreatment of Ligninâ€Derived Phenolic Compounds over Raneyâ€Ni with a Continuous Regeneration of the Hâ€Donor Solvent. ChemSusChem, 2022, 15, .	3.6	4
5	Fading memory of MgAl hydrotalcites at mild rehydration conditions deteriorates their performance in aldol condensation. Applied Catalysis A: General, 2022, 632, 118482.	2.2	4
6	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.	2.7	5
7	Integration of stabilized bio-oil in light cycle oil hydrotreatment unit targeting hybrid fuels. Fuel Processing Technology, 2022, 230, 107220.	3.7	13
8	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, 10, 107761.	3.3	4
9	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.	2.2	24
10	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.	2.2	13
11	Bio-based refinery intermediate production via hydrodeoxygenation of fast pyrolysis bio-oil. Renewable Energy, 2021, 168, 593-605.	4.3	22
12	Towards efficient Cu/ZnO catalysts for ester hydrogenolysis: The role of synthesis method. Applied Catalysis A: General, 2021, 624, 118320.	2.2	8
13	On the Effect of the M3+ Origin on the Properties and Aldol Condensation Performance of MgM3+ Hydrotalcites and Mixed Oxides. Catalysts, 2021, 11, 992.	1.6	7
14	Improved bio-oil upgrading due to optimized reactor temperature profile. Fuel Processing Technology, 2021, 222, 106977.	3.7	9
15	Understanding of the Key Factors Determining the Activity and Selectivity of CuZn Catalysts in Hydrogenolysis of Alkyl Esters to Alcohols. Catalysts, 2021, 11, 1417.	1.6	3
16	Fuels from Reliable Bio-based Refinery Intermediates: BioMates. Waste and Biomass Valorization, 2020, 11, 579-598.	1.8	7
17	Catalytic Transfer Hydrogenation of Furfural over Co₃O₄â^'Al₂O₃ Hydrotalciteâ€derived Catalyst. ChemCatChem, 2020, 12, 1467-1475.	1.8	31
18	Efficient One-Stage Bio-Oil Upgrading over Sulfided Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 15149-15167.	3.2	25

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19	Effect of Temperature on the Hydrotreatment of Sewage Sludge-Derived Pyrolysis Oil and Behavior of Ni-Based Catalyst. Catalysts, 2020, 10, 1273.	1.6	9
20	On the origin of the transesterification reaction route during dimethyl adipate hydrogenolysis. Applied Catalysis A: General, 2020, 606, 117825.	2.2	6
21	Do metal-oxide promoters of Cu hydrogenolysis catalysts affect the Cu intrinsic activity?. Applied Catalysis A: General, 2020, 608, 117889.	2.2	9
22	Alternative Preparation of Improved NiMo-Alumina Deoxygenation Catalysts. Frontiers in Chemistry, 2020, 8, 216.	1.8	4
23	Quantitative analysis of pyrolysis bio-oils: A review. TrAC - Trends in Analytical Chemistry, 2020, 126, 115857.	5.8	44
24	Does the structure of CuZn hydroxycarbonate precursors affect the intrinsic hydrogenolysis activity of CuZn catalysts?. Catalysis Science and Technology, 2020, 10, 3303-3314.	2.1	10
25	Hydrodeoxygenation of Isoeugenol over Ni- and Co-Supported Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 14545-14560.	3.2	33
26	Novel Polymerâ€“Silica Composite-Based Bifunctional Catalysts for Hydrodeoxygenation of 4-(2-Furyl)-3-Buten-2-One as Model Substance for Furfuralâ€“Acetone Aldol Condensation Products. Applied Sciences (Switzerland), 2019, 9, 2438.	1.3	2
27	Hydrogenation of Bio-Oil Model Compounds over Raney-Ni at Ambient Pressure. Catalysts, 2019, 9, 268.	1.6	4
28	Quantitative Study of Straw Bio-oil Hydrodeoxygenation over a Sulfided NiMo Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 7080-7093.	3.2	45
29	CuZn Catalysts Superior to Adkins Catalysts for Dimethyl Adipate Hydrogenolysis. ChemCatChem, 2019, 11, 2169-2178.	1.8	20
30	Clinoptilolite foams prepared by alkali activation of natural zeolite and their post-synthesis modifications. Microporous and Mesoporous Materials, 2019, 282, 169-178.	2.2	23
31	Hydrotreatment of straw bio-oil from ablative fast pyrolysis to produce suitable refinery intermediates. Fuel, 2019, 238, 98-110.	3.4	64
32	Using Mgâ€Al Mixed Oxide and Reconstructed Hydrotalcite as Basic Catalysts for Aldol Condensation of Furfural and Cyclohexanone. ChemCatChem, 2018, 10, 1464-1475.	1.8	26
33	Refinery co-processing of renewable feeds. Progress in Energy and Combustion Science, 2018, 68, 29-64.	15.8	108
34	On the importance of transesterification by-products during hydrogenolysis of dimethyl adipate to hexanediol. Catalysis Communications, 2018, 111, 16-20.	1.6	15
35	Characterization of potassium-modified FAU zeolites and their performance in aldol condensation of furfural and acetone. Applied Catalysis A: General, 2018, 549, 8-18.	2.2	41
36	Effect of Calcination Atmosphere and Temperature on the Hydrogenolysis Activity and Selectivity of Copper-Zinc Catalysts. Catalysts, 2018, 8, 446.	1.6	17

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37	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.	1.8	24
38	Catalytic conversion of furfural-acetone condensation products into bio-derived C8 linear alcohols over Ni Cu/Al-SBA-15. Catalysis Communications, 2018, 114, 42-45.	1.6	9
39	Partial oxidation of ethanol over ZrO2-supported vanadium catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 161-173.	0.8	3
40	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.	2.2	52
41	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.	0.8	15
42	Aldose to ketose interconversion: galactose and arabinose isomerization over heterogeneous catalysts. Catalysis Science and Technology, 2017, 7, 5321-5331.	2.1	29
43	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.	2.6	47
44	Influence of Mgâ€“Al Mixed Oxide Compositions on Their Properties and Performance in Aldol Condensation. Industrial & Engineering Chemistry Research, 2017, 56, 13411-13422.	1.8	57
45	The comparison of Co, Ni, Mo, CoMo and NiMo sulfided catalysts in rapeseed oil hydrodeoxygenation. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 333-341.	0.8	17
46	Petroleomic Characterization of Pyrolysis Bio-oils: A Review. Energy & Fuels, 2017, 31, 10283-10299.	2.5	73
47	Bio-oil hydrotreating over conventional CoMo & NiMo catalysts: The role of reaction conditions and additives. Fuel, 2017, 198, 49-57.	3.4	47
48	Solvent effects in hydrodeoxygenation of furfural-acetone aldol condensation products over Pt/TiO 2 catalyst. Applied Catalysis A: General, 2017, 530, 174-183.	2.2	28
49	(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.	4.8	27
50	Aldol condensation of furfural with acetone over ion-exchanged and impregnated potassium BEA zeolites. Journal of Molecular Catalysis A, 2016, 424, 358-368.	4.8	56
51	The occurrence of Cannizzaro reaction over Mg-Al hydrotalcites. Applied Catalysis A: General, 2016, 525, 215-225.	2.2	35
52	Nanosized TiO2â€"A promising catalyst for the aldol condensation of furfural with acetone in biomass upgrading. Catalysis Today, 2016, 277, 97-107.	2.2	68
53	Towards understanding the hydrodeoxygenation pathways of furfuralâ€“acetone aldol condensation products over supported Pt catalysts. Catalysis Science and Technology, 2016, 6, 1829-1841.	2.1	34
54	Chemical Characterization of Pyrolysis Bio-oil: Application of Orbitrap Mass Spectrometry. Energy & Fuels, 2015, 29, 3233-3240.	2.5	36

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55	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.	1.3	22
56	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.	2.2	57
57	Opportunities for zeolites in biomass upgradingâ€"Lessons from the refining and petrochemical industry. Catalysis Today, 2015, 243, 10-22.	2.2	81
58	Transesterification of rapeseed oil by Mgâ€"Al mixed oxides with various Mg/Al molar ratio. Chemical Engineering Journal, 2015, 263, 160-167.	6.6	45
59	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.	2.2	93
60	Unprecedented selectivities in aldol condensation over Mgâ€"Al hydrotalcite in a fixed bed reactor setup. Catalysis Communications, 2015, 58, 89-92.	1.6	37
61	HDO catalysts for triglycerides conversion into pyrolysis and isomerization feedstock. Fuel, 2014, 121, 57-64.	3.4	42
62	Aldol condensation of furfural and acetone over MgAl layered double hydroxides and mixed oxides. Catalysis Today, 2014, 223, 138-147.	2.2	143
63	Aspects of Mgâ€"Al mixed oxide activity in transesterification of rapeseed oil in a fixed-bed reactor. Fuel Processing Technology, 2014, 122, 176-181.	3.7	20
64	Catalytic co-hydroprocessing of gasoilâ€"palm oil/AVO mixtures over a NiMo/Î³-Al2O3 catalyst. Fuel, 2014, 116, 49-55.	3.4	33
65	Effect of support-active phase interactions on the catalyst activity and selectivity in deoxygenation of triglycerides. Applied Catalysis B: Environmental, 2014, 145, 101-107.	10.8	115
66	Peculiar behavior of MWW materials in aldol condensation of furfural and acetone. Dalton Transactions, 2014, 43, 10628.	1.6	52
67	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.	6.9	6
68	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.	5.7	148
69	Aldol condensation of furfural and acetone on zeolites. Catalysis Today, 2014, 227, 154-162.	2.2	125
70	Overview of Analytical Methods Used for Chemical Characterization of Pyrolysis Bio-oil. Energy & Fuels, 2014, 28, 385-402.	2.5	157
71	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.	0.3	8
72	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.	1.3	24

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73	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.	1.3	7
74	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.	3.9	40
75	Hydrotreating of Triglyceride-Based Feedstocks in Refineries. Advances in Chemical Engineering, 2013, , 141-194.	0.5	22
76	Application of Molecular Sieves in Transformations of Biomass and Biomass-Derived Feedstocks. Catalysis Reviews - Science and Engineering, 2013, 55, 1-78.	5.7	142
77	The effect of oxygenates structure on their deoxygenation over USY zeolite. Catalysis Today, 2013, 204, 46-53.	2.2	26
78	Zeolite-Beta-supported platinum catalysts for hydrogenation/hydrodeoxygenation of pyrolysis oil model compounds. Catalysis Today, 2013, 204, 38-45.	2.2	80
79	Extraâ€Largeâ€Pore Zeolites with UTL Topology: Control of the Catalytic Activity by Variation in the Nature of the Active Sites. ChemCatChem, 2013, 5, 1891-1898.	1.8	24
80	Fischerâ€“Tropsch product as a co-feed for refinery hydrocracking unit. Fuel, 2013, 105, 432-439.	3.4	20
81	Upgrading of Fischerâ€“Tropsch Waxes by Fluid Catalytic Cracking. Industrial & Engineering Chemistry Research, 2012, 51, 8849-8857.	1.8	19
82	Lignin to liquids over sulfided catalysts. Catalysis Today, 2012, 179, 191-198.	2.2	61
83	The role of alumina support in the deoxygenation of rapeseed oil over NiMoâ€“alumina catalysts. Catalysis Today, 2011, 176, 409-412.	2.2	33
84	The role of Ni species in the deoxygenation of rapeseed oil over NiMo-alumina catalysts. Applied Catalysis A: General, 2011, 397, 127-137.	2.2	109
85	Premium quality renewable diesel fuel by hydroprocessing of sunflower oil. Fuel, 2011, 90, 2473-2479.	3.4	120
86	Deactivation of HDS catalysts in deoxygenation of vegetable oils. Applied Catalysis A: General, 2011, 394, 9-17.	2.2	199
87	Utilization of Triglycerides and Related Feedstocks for Production of Clean Hydrocarbon Fuels and Petrochemicals: A Review. Waste and Biomass Valorization, 2010, 1, 293-308.	1.8	156
88	Conversion of Vegetable Oils into Hydrocarbons over CoMo/MCM-41 Catalysts. Topics in Catalysis, 2010, 53, 168-178.	1.3	104
89	Reaction Routes in Selective Ring Opening of Naphthenes. Topics in Catalysis, 2010, 53, 1172-1175.	1.3	12
90	Ring Opening of Decalin Over Zeolite-Supported Iridium Catalysts. Topics in Catalysis, 2010, 53, 1438-1445.	1.3	36

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91	Fuel properties of hydroprocessed rapeseed oil. Fuel, 2010, 89, 611-615.	3.4	158
92	Hydrocracking of petroleum vacuum distillate containing rapeseed oil: Evaluation of diesel fuel. Fuel, 2010, 89, 1508-1513.	3.4	76
93	Deoxygenation of vegetable oils over sulfided Ni, Mo and NiMo catalysts. Applied Catalysis A: General, 2010, 372, 199-208.	2.2	408
94	Transformation of Vegetable Oils into Hydrocarbons over Mesoporous-Alumina-Supported CoMo Catalysts. Topics in Catalysis, 2009, 52, 161-168.	1.3	161
95	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.	1.3	17
96	Ring-opening of decalin â€“ Kinetic modelling. Fuel, 2009, 88, 366-373.	3.4	26
97	Hydroprocessed rapeseed oil as a source of hydrocarbon-based biodiesel. Fuel, 2009, 88, 456-460.	3.4	230
98	Decalin ring opening reactions on ruthenium-containing zeolite MCM-41. Petroleum Chemistry, 2009, 49, 90-93.	0.4	9
99	Thermodynamic balance in reaction system of total vegetable oil hydrogenation. Chemical Engineering Journal, 2008, , .	6.6	3
100	Future Refining Catalysis - Introduction of Biomass Feedstocks. Collection of Czechoslovak Chemical Communications, 2008, 73, 1015-1044.	1.0	72
101	Classification and pattern recognition of acyclic octenes based on mass spectra. Talanta, 2007, 72, 1573-1580.	2.9	3
102	The development of the method of low-temperature peat pyrolysis on the basis of alumosilicate catalytic system. Chemical Engineering Journal, 2007, 134, 162-167.	6.6	24
103	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.	4.8	23
104	Catalytic pyrolysis of low density polyethylene over H-Î², H-Y, H-Mordenite, and H-Ferrierite zeolite catalysts: Influence of acidity and structures. Kinetics and Catalysis, 2007, 48, 535-540.	0.3	45
105	Metalâ^'Support Interactions in Zeolite-Supported Noble Metals:Â Influence of Metal Crystallites on the Support Acidity. Journal of Physical Chemistry B, 2006, 110, 4937-4946.	1.2	127
106	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.	1.5	6
107	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, , .	4.8	11
108	Liquid-phase hydrogenation of diethylbenzenes. Catalysis Today, 2005, 100, 453-456.	2.2	1

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109	Improved kinetic data from analysis of complex hydrocarbon mixtures by using SIMCA. Analytica Chimica Acta, 2005, 537, 339-348.	2.6	12
110	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.	1.5	6
111	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. Journal of Catalysis, 2004, 227, 313-327.	3.1	123
112	Ring opening of decalin over zeolitesI. Activity and selectivity of proton-form zeolites. Journal of Catalysis, 2004, 222, 65-79.	3.1	131
113	Ring opening of decalin over zeolitesII. Activity and selectivity of platinum-modified zeolites. Journal of Catalysis, 2004, 227, 313-327.	3.1	82
114	Non-traditional three-phase reactor setup for simultaneous acoustic irradiation and hydrogenation. Journal of Chemical Technology and Biotechnology, 2003, 78, 203-207.	1.6	10