Libor Capek

List of Publications by Year
in descending order

70 papers	2,132 citations	218677 26 h-index	243625 44 g-index
70 all docs	70 docs citations	70 times ranked	2848 citing authors

#	Article	IF	Citations
1	Controlled silica core removal from SiO2@MgAl core-shell system as a tool to prepare well-oriented and highly active catalysts. Applied Clay Science, 2022, 216, 106365.	5.2	5
2	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.	4.4	13
3	On the Effect of the M3+ Origin on the Properties and Aldol Condensation Performance of MgM3+ Hydrotalcites and Mixed Oxides. Catalysts, 2021, 11, 992.	3.5	7
4	Reconstruction of the ZnAl Mixed Oxides Into the Layered Double Hydroxide Catalysts Active in the Aldol Condensation of Furfural: The Role of ZnO Particles. Frontiers in Chemistry, 2021, 9, 803764.	3.6	2
5	Alternative Preparation of Improved NiMo-Alumina Deoxygenation Catalysts. Frontiers in Chemistry, 2020, 8, 216.	3.6	4
6	Successful Immobilization of Lanthanides Doped TiO2 on Inert Foam for Repeatable Hydrogen Generation from Aqueous Ammonia. Materials, 2020, 13, 1254.	2.9	3
7	The Role of Fluorine in F-La/TiO2 Photocatalysts on Photocatalytic Decomposition of Methanol-Water Solution. Materials, 2019, 12, 2867.	2.9	12
8	The effect of Zr loading in Zr/TiO2 prepared by pressurized hot water on its surface, morphological and photocatalytic properties. Journal of Sol-Gel Science and Technology, 2019, 90, 369-379.	2.4	4
9	Photocatalytic decomposition of methanol-water solution over N-La/TiO2 photocatalysts. Applied Surface Science, 2019, 469, 879-886.	6.1	24
10	Photocatalytic hydrogen production from methanol over Nd/TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 366, 55-64.	3.9	16
11	In-situ characterization of the thermal treatment of Zn-Al hydrotalcites with respect to the formation of Zn/Al mixed oxide active in aldol condensation of furfural. Applied Clay Science, 2018, 157, 8-18.	5.2	19
12	Photocatalytic decomposition of methanol over La/TiO2 materials. Environmental Science and Pollution Research, 2018, 25, 34818-34825.	5.3	23
13	Photocatalytic hydrogenation and reduction of CO2 over CuO/ TiO2 photocatalysts. Applied Surface Science, 2018, 454, 313-318.	6.1	72
14	Nd/TiO2 Anatase-Brookite Photocatalysts for Photocatalytic Decomposition of Methanol. Frontiers in Chemistry, 2018, 6, 44.	3.6	19
15	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.	3.6	24
16	Crystallization of Zr0.1Ti0.9On mixed oxide by pressurized hot water and its effect on microstructural properties and photoactivity. Journal of Supercritical Fluids, 2018, 141, 39-48.	3.2	2
17	TiO₂ and Nitrogen Doped TiO₂ Prepared by Different Methods; on the (Micro)structure and Photocatalytic Activity in CO₂ Reduction and N₂O Decomposition. Journal of Nanoscience and Nanotechnology, 2018, 18, 688-698.	0.9	14
18	Titanium and zirconium-based mixed oxides prepared by using pressurized and supercritical fluids: On novel preparation, microstructure and photocatalytic properties in the photocatalytic reduction of CO2. Catalysis Today, 2017, 287, 52-58.	4.4	9

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19	Hydrodeoxygenation of stearic acid and tall oil fatty acids over Ni-alumina catalysts: Influence of reaction parameters and kinetic modelling. Chemical Engineering Journal, 2017, 316, 401-409.	12.7	78
20	Catalytic behavior of Mgâ€“Al and Znâ€“Al mixed oxides in the transesterification of rapeseed oil: comparison of batch and fixed bed reactors. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 209-224.	1.7	9
21	Surface Properties of Hydrotalcite-Based Zn(Mg)Al Oxides and Their Catalytic Activity in Aldol Condensation of Furfural with Acetone. Industrial & Engineering Chemistry Research, 2017, 56, 4638-4648.	3.7	45
22	Analysis of Ni species formed on zeolites, mesoporous silica and alumina supports and their catalytic behavior in the dry reforming of methane. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 255-274.	1.7	25
23	Influence of Mgâ€“Al Mixed Oxide Compositions on Their Properties and Performance in Aldol Condensation. Industrial & Engineering Chemistry Research, 2017, 56, 13411-13422.	3.7	57
24	Investigation of low Ce amount doped-TiO2 prepared by using pressurized fluids in photocatalytic N2O decomposition and CO2 reduction. Journal of Sol-Gel Science and Technology, 2017, 84, 158-168.	2.4	15
25	Novel synthesis of ZrxTi1-xOn mixed oxides using titanyl sulphate and pressurized hot and supercritical fluids, and their photocatalytic comparison with sol-gel prepared equivalents. Materials Research Bulletin, 2017, 95, 95-103.	5.2	5
26	Determination of basic sites in Mgâ€“Al mixed oxides by combination of TPD-CO2 and CO2 adsorption calorimetry. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1921-1929.	3.6	38
27	Screening of active solid catalysts for esterification of tall oil fatty acids with methanol. Journal of Cleaner Production, 2017, 155, 34-38.	9.3	11
28	Nickel catalyst with outstanding activity in the DRM reaction prepared by high temperature calcination treatment. International Journal of Hydrogen Energy, 2016, 41, 8459-8469.	7.1	22
29	Optimization of cerium doping of TiO2 for photocatalytic reduction of CO2 and photocatalytic decomposition of N2O. Journal of Sol-Gel Science and Technology, 2016, 78, 550-558.	2.4	15
30	Photocatalytic Hydrogen Formation from Ammonia in an Aqueous Solution Over Pt-Enriched TiO₂â€“ZrO₂ Photocatalyst. Journal of Nanoscience and Nanotechnology, 2015, 15, 6833-6839.	0.9	4
31	Effect of Calcination Temperature on the Structure and Catalytic Performance of the Ni/Al₂O₃ and Niâ€“Ce/Al₂O₃ Catalysts in Oxidative Dehydrogenation of Ethane. Industrial & Engineering Chemistry Research, 2015, 54, 12730-12740.	3.7	38
32	Novel cerium doped titania catalysts for photocatalytic decomposition of ammonia. Applied Catalysis B: Environmental, 2015, 178, 108-116.	20.2	63
33	Photocatalytic H2 generation from aqueous ammonia solution using ZnO photocatalysts prepared by different methods. International Journal of Hydrogen Energy, 2015, 40, 8530-8538.	7.1	34
34	Microstructure-performance study of cerium-doped TiO2 prepared by using pressurized fluids in photocatalytic mitigation of N2O. Research on Chemical Intermediates, 2015, 41, 9217-9231.	2.7	11
35	The Role of Ni Species Distribution on the Effect of Ce as a Promoter in C2-ODH Reaction. Topics in Catalysis, 2015, 58, 843-853.	2.8	6
36	Preparation, characterization and photocatalytic performance of TiO2 prepared by using pressurized fluids in CO2 reduction and N2O decomposition. Journal of Sol-Gel Science and Technology, 2015, 76, 621-629.	2.4	13

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37	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.	4.4	57
38	Transesterification of rapeseed oil by Mgâ€“Al mixed oxides with various Mg/Al molar ratio. Chemical Engineering Journal, 2015, 263, 160-167.	12.7	45
39	Preparation, characterization and photocatalytic properties of cerium doped TiO2: On the effect of Ce loading on the photocatalytic reduction of carbon dioxide. Applied Catalysis B: Environmental, 2014, 152-153, 172-183.	20.2	104
40	Solâ€“gel derived Pd supported TiO2-ZrO2 and TiO2 photocatalysts; their examination in photocatalytic reduction of carbon dioxide. Catalysis Today, 2014, 230, 20-26.	4.4	38
41	Aspects of Mgâ€“Al mixed oxide activity in transesterification of rapeseed oil in a fixed-bed reactor. Fuel Processing Technology, 2014, 122, 176-181.	7.2	20
42	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.	14.0	6
43	Aspects of potassium leaching in the heterogeneously catalyzed transesterification of rapeseed oil. Fuel, 2014, 115, 443-451.	6.4	20
44	ZnS/MMT nanocomposites: The effect of ZnS loading in MMT on the photocatalytic reduction of carbon dioxide. Applied Catalysis B: Environmental, 2014, 158-159, 410-417.	20.2	44
45	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.	2.8	24
46	Precursors of active Ni species in Ni/Al2O3 catalysts for oxidative dehydrogenation of ethane. Chinese Journal of Catalysis, 2013, 34, 1905-1913.	14.0	19
47	On solâ€“gel derived Au-enriched TiO2 and TiO2-ZrO2 photocatalysts and their investigation in photocatalytic reduction of carbon dioxide. Applied Surface Science, 2013, 285, 688-696.	6.1	37
48	Ethanolysis of rapeseed oil by KOH as homogeneous and as heterogeneous catalyst supported on alumina and CaO. Energy, 2012, 48, 392-397.	8.8	36
49	Effect of preparation method on nature and distribution of vanadium species in vanadium-based hexagonal mesoporous silica catalysts: Impact on catalytic behavior in propane ODH. Applied Catalysis A: General, 2012, 415-416, 29-39.	4.3	55
50	Effect of particle size distribution in laser-induced breakdown spectroscopy analysis of mesoporous Vâ€“SiO2 catalysts. Journal of Analytical Atomic Spectrometry, 2011, 26, 2281.	3.0	10
51	DR UVâ€“vis Study of the Supported Vanadium Oxide Catalysts. Journal of Physical Chemistry C, 2011, 115, 12430-12438.	3.1	72
52	Quantitative LIBS analysis of vanadium in samples of hexagonal mesoporous silica catalysts. Talanta, 2011, 83, 1659-1664.	5.5	16
53	Wavelength Effect on Photocatalytic Reduction of CO2 by Ag/TiO2 Catalyst. Chinese Journal of Catalysis, 2011, 32, 812-815.	14.0	47
54	The role of alumina support in the deoxygenation of rapeseed oil over NiMoâ€“alumina catalysts. Catalysis Today, 2011, 176, 409-412.	4.4	33

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55	Activity of the Niâ€“Al Mixed Oxides Prepared from Hydrotalcite-Like Precursors in the Oxidative Dehydrogenation of Ethane and Propane. Topics in Catalysis, 2011, 54, 1151-1162.	2.8	28
56	The role of Ni species in the deoxygenation of rapeseed oil over NiMo-alumina catalysts. Applied Catalysis A: General, 2011, 397, 127-137.	4.3	109
57	Speciation of Fe in Fe-modified zeolite catalysts. Journal of Electroanalytical Chemistry, 2010, 647, 8-19.	3.8	12
58	Effect of silver doping on the TiO2 for photocatalytic reduction of CO2. Applied Catalysis B: Environmental, 2010, 96, 239-244.	20.2	314
59	V(V) species in supported catalysts: Analysis and performance in oxidative dehydrogenation of ethane. Journal of Electroanalytical Chemistry, 2009, 633, 127-136.	3.8	19
60	Ammoxidation of propane over Fe-zeolites: Effect of reaction variables and catalyst composition and structure. Catalysis Today, 2009, 141, 254-259.	4.4	3
61	The Feasibility of Ni-Alumina Catalysts in Oxidative Dehydrogenation of Ethane. Collection of Czechoslovak Chemical Communications, 2008, 73, 1177-1191.	1.0	10
62	Dehydrogenation of ethane over vanadium, cobalt and nickel based catalysts. Studies in Surface Science and Catalysis, 2008, , 1175-1178.	1.5	8
63	Ammoxidation of propane over Fe-zeolites: effect of reaction variables, catalyst composition and catalyst structure. Studies in Surface Science and Catalysis, 2008, 174, 1151-1154.	1.5	4
64	Effect of the nature and the distribution of vanadium Species on the catalytic behavior of vanadium-based silica catalysts. Studies in Surface Science and Catalysis, 2008, , 1295-1298.	1.5	3
65	Kinetic experiments and modeling of NO oxidation and SCR of NOx with decane over Cu- and Fe-MFI catalysts. Applied Catalysis B: Environmental, 2007, 70, 53-57.	20.2	26
66	Vanadium supported on hexagonal mesoporous silica: active and stable catalysts in the oxidative dehydrogenation of alkanes. Topics in Catalysis, 2007, 45, 51-55.	2.8	28
67	Nature of active sites in decane-SCR-NOx and NO decomposition over Cu-ZSM-5 zeolites. Applied Catalysis A: General, 2006, 307, 156-164.	4.3	31
68	Kinetic Experiments and Modeling of a Complex DeNOxSystem:Â Decane Selective Catalytic Reduction of NOxin the Gas Phase and over an Fe-MFI Type Zeolite Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 4523-4533.	3.7	6
69	Co-beta zeolite highly active in propaneâ€“SCR-NOx in the presence of water vapor: effect of zeolite preparation and Al distribution in the framework. Journal of Catalysis, 2004, 227, 352-366.	6.2	82
70	Contribution of Fe and Protonic Sites in Calcined and Steamed ZSM-5 Zeolites to Oxidation of Benzene with N2O to Phenol and Selective Catalytic Reduction of NO with Propane to Nitrogen. Collection of Czechoslovak Chemical Communications, 2003, 68, 1805-1818.	1.0	5