

Libor Capek

List of Publications by Year in descending order

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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	Effect of silver doping on the TiO ₂ for photocatalytic reduction of CO ₂ . Applied Catalysis B: Environmental, 2010, 96, 239-244.	20.2	314
2	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
3	Preparation, characterization and photocatalytic properties of cerium doped TiO ₂ : 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
4	Co-beta zeolite highly active in propaneâ€“SCR-NO _x 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
5	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
6	DR UVâ€“vis Study of the Supported Vanadium Oxide Catalysts. Journal of Physical Chemistry C, 2011, 115, 12430-12438.	3.1	72
7	Photocatalytic hydrogenation and reduction of CO ₂ over CuO/ TiO ₂ photocatalysts. Applied Surface Science, 2018, 454, 313-318.	6.1	72
8	Novel cerium doped titania catalysts for photocatalytic decomposition of ammonia. Applied Catalysis B: Environmental, 2015, 178, 108-116.	20.2	63
9	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
10	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
11	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
12	Wavelength Effect on Photocatalytic Reduction of CO ₂ by Ag/TiO ₂ Catalyst. Chinese Journal of Catalysis, 2011, 32, 812-815.	14.0	47
13	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
14	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
15	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
16	Solâ€“gel derived Pd supported TiO ₂ -ZrO ₂ and TiO ₂ photocatalysts; their examination in photocatalytic reduction of carbon dioxide. Catalysis Today, 2014, 230, 20-26.	4.4	38
17	Effect of Calcination Temperature on the Structure and Catalytic Performance of the Ni ₂ /Al ₂ O ₃ and Niâ€“Ce/Al ₂ O ₃ Catalysts in Oxidative Dehydrogenation of Ethane. Industrial & Engineering Chemistry Research, 2015, 54, 12730-12740.	3.7	38
18	Determination of basic sites in Mgâ€“Al mixed oxides by combination of TPD-CO ₂ and CO ₂ adsorption calorimetry. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1921-1929.	3.6	38

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19	On sol-gel derived Au-enriched TiO ₂ and TiO ₂ -ZrO ₂ photocatalysts and their investigation in photocatalytic reduction of carbon dioxide. <i>Applied Surface Science</i> , 2013, 285, 688-696.	6.1	37
20	Ethanolysis of rapeseed oil by KOH as homogeneous and as heterogeneous catalyst supported on alumina and CaO. <i>Energy</i> , 2012, 48, 392-397.	8.8	36
21	Photocatalytic H ₂ generation from aqueous ammonia solution using ZnO photocatalysts prepared by different methods. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8530-8538.	7.1	34
22	The role of alumina support in the deoxygenation of rapeseed oil over NiMo-alumina catalysts. <i>Catalysis Today</i> , 2011, 176, 409-412.	4.4	33
23	Nature of active sites in decane-SCR-NO _x and NO decomposition over Cu-ZSM-5 zeolites. <i>Applied Catalysis A: General</i> , 2006, 307, 156-164.	4.3	31
24	Vanadium supported on hexagonal mesoporous silica: active and stable catalysts in the oxidative dehydrogenation of alkanes. <i>Topics in Catalysis</i> , 2007, 45, 51-55.	2.8	28
25	Activity of the Ni-Al Mixed Oxides Prepared from Hydrotalcite-Like Precursors in the Oxidative Dehydrogenation of Ethane and Propane. <i>Topics in Catalysis</i> , 2011, 54, 1151-1162.	2.8	28
26	Kinetic experiments and modeling of NO oxidation and SCR of NO _x with decane over Cu- and Fe-MFI catalysts. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 53-57.	20.2	26
27	Analysis of Ni species formed on zeolites, mesoporous silica and alumina supports and their catalytic behavior in the dry reforming of methane. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 121, 255-274.	1.7	25
28	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.	2.8	24
29	Physico-Chemical Properties of MgGa 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.	3.6	24
30	Photocatalytic decomposition of methanol-water solution over N-La/TiO ₂ photocatalysts. <i>Applied Surface Science</i> , 2019, 469, 879-886.	6.1	24
31	Photocatalytic decomposition of methanol over La/TiO ₂ materials. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34818-34825.	5.3	23
32	Nickel catalyst with outstanding activity in the DRM reaction prepared by high temperature calcination treatment. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8459-8469.	7.1	22
33	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	20
34	Aspects of potassium leaching in the heterogeneously catalyzed transesterification of rapeseed oil. <i>Fuel</i> , 2014, 115, 443-451.	6.4	20
35	V(V) species in supported catalysts: Analysis and performance in oxidative dehydrogenation of ethane. <i>Journal of Electroanalytical Chemistry</i> , 2009, 633, 127-136.	3.8	19
36	Precursors of active Ni species in Ni/Al ₂ O ₃ catalysts for oxidative dehydrogenation of ethane. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1905-1913.	14.0	19

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37	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. <i>Applied Clay Science</i> , 2018, 157, 8-18.	5.2	19
38	Nd/TiO ₂ Anatase-Brookite Photocatalysts for Photocatalytic Decomposition of Methanol. <i>Frontiers in Chemistry</i> , 2018, 6, 44.	3.6	19
39	Quantitative LIBS analysis of vanadium in samples of hexagonal mesoporous silica catalysts. <i>Talanta</i> , 2011, 83, 1659-1664.	5.5	16
40	Photocatalytic hydrogen production from methanol over Nd/TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 366, 55-64.	3.9	16
41	Optimization of cerium doping of TiO ₂ for photocatalytic reduction of CO ₂ and photocatalytic decomposition of N ₂ O. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 550-558.	2.4	15
42	Investigation of low Ce amount doped-TiO ₂ prepared by using pressurized fluids in photocatalytic N ₂ O decomposition and CO ₂ reduction. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 158-168.	2.4	15
43	TiO ₂ and Nitrogen Doped TiO ₂ Prepared by Different Methods; on the (Micro)structure and Photocatalytic Activity in CO ₂ Reduction and N ₂ O Decomposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 688-698.	0.9	14
44	Preparation, characterization and photocatalytic performance of TiO ₂ prepared by using pressurized fluids in CO ₂ reduction and N ₂ O decomposition. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 76, 621-629.	2.4	13
45	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.	4.4	13
46	Speciation of Fe in Fe-modified zeolite catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2010, 647, 8-19.	3.8	12
47	The Role of Fluorine in F-La/TiO ₂ Photocatalysts on Photocatalytic Decomposition of Methanol-Water Solution. <i>Materials</i> , 2019, 12, 2867.	2.9	12
48	Microstructure-performance study of cerium-doped TiO ₂ prepared by using pressurized fluids in photocatalytic mitigation of N ₂ O. <i>Research on Chemical Intermediates</i> , 2015, 41, 9217-9231.	2.7	11
49	Screening of active solid catalysts for esterification of tall oil fatty acids with methanol. <i>Journal of Cleaner Production</i> , 2017, 155, 34-38.	9.3	11
50	The Feasibility of Ni-Alumina Catalysts in Oxidative Dehydrogenation of Ethane. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 1177-1191.	1.0	10
51	Effect of particle size distribution in laser-induced breakdown spectroscopy analysis of mesoporous Vâ€SiO ₂ catalysts. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2281.	3.0	10
52	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 CO ₂ . <i>Catalysis Today</i> , 2017, 287, 52-58.	4.4	9
53	Catalytic behavior of Mgâ€Al and Znâ€Al mixed oxides in the transesterification of rapeseed oil: comparison of batch and fixed bed reactors. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 121, 209-224.	1.7	9
54	Dehydrogenation of ethane over vanadium, cobalt and nickel based catalysts. <i>Studies in Surface Science and Catalysis</i> , 2008, , 1175-1178.	1.5	8

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55	On the Effect of the M ³⁺ Origin on the Properties and Aldol Condensation Performance of MgM ³⁺ Hydrotalcites and Mixed Oxides. <i>Catalysts</i> , 2021, 11, 992.	3.5	7
56	Kinetic Experiments and Modeling of a Complex DeNO _x System: Decane Selective Catalytic Reduction of NO _x in the Gas Phase and over an Fe-MFI Type Zeolite Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 4523-4533.	3.7	6
57	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.	14.0	6
58	The Role of Ni Species Distribution on the Effect of Ce as a Promoter in C ₂ -ODH Reaction. <i>Topics in Catalysis</i> , 2015, 58, 843-853.	2.8	6
59	Novel synthesis of Zr _x Ti _{1-x} O _n mixed oxides using titanyl sulphate and pressurized hot and supercritical fluids, and their photocatalytic comparison with sol-gel prepared equivalents. <i>Materials Research Bulletin</i> , 2017, 95, 95-103.	5.2	5
60	Contribution of Fe and Protonic Sites in Calcined and Steamed ZSM-5 Zeolites to Oxidation of Benzene with N ₂ O to Phenol and Selective Catalytic Reduction of NO with Propane to Nitrogen. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1805-1818.	1.0	5
61	Controlled silica core removal from SiO ₂ @MgAl core-shell system as a tool to prepare well-oriented and highly active catalysts. <i>Applied Clay Science</i> , 2022, 216, 106365.	5.2	5
62	Amoxidation of propane over Fe-zeolites: effect of reaction variables, catalyst composition and catalyst structure. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 1151-1154.	1.5	4
63	Photocatalytic Hydrogen Formation from Ammonia in an Aqueous Solution Over Pt-Enriched TiO ₂ @ZrO ₂ Photocatalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6833-6839.	0.9	4
64	The effect of Zr loading in Zr/TiO ₂ prepared by pressurized hot water on its surface, morphological and photocatalytic properties. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 369-379.	2.4	4
65	Alternative Preparation of Improved NiMo-Alumina Deoxygenation Catalysts. <i>Frontiers in Chemistry</i> , 2020, 8, 216.	3.6	4
66	Effect of the nature and the distribution of vanadium Species on the catalytic behavior of vanadium-based silica catalysts. <i>Studies in Surface Science and Catalysis</i> , 2008, , 1295-1298.	1.5	3
67	Amoxidation of propane over Fe-zeolites: Effect of reaction variables and catalyst composition and structure. <i>Catalysis Today</i> , 2009, 141, 254-259.	4.4	3
68	Successful Immobilization of Lanthanides Doped TiO ₂ on Inert Foam for Repeatable Hydrogen Generation from Aqueous Ammonia. <i>Materials</i> , 2020, 13, 1254.	2.9	3
69	Crystallization of Zr _{0.1} Ti _{0.9} O _n mixed oxide by pressurized hot water and its effect on microstructural properties and photoactivity. <i>Journal of Supercritical Fluids</i> , 2018, 141, 39-48.	3.2	2
70	Reconstruction of the ZnAl Mixed Oxides Into the Layered Double Hydroxide Catalysts Active in the Aldol Condensation of Furfural: The Role of ZnO Particles. <i>Frontiers in Chemistry</i> , 2021, 9, 803764.	3.6	2