

Karel Soukup

List of Publications by Year in descending order

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32
papers

521
citations

687363

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754
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#	ARTICLE	IF	CITATIONS
1	H-ZSM-5 zeolite model crystals: Structure-diffusion-activity relationship in methanol-to-olefins catalysis. <i>Journal of Catalysis</i> , 2017, 345, 11-23.	6.2	96
2	Agrowaste derived biochars impregnated with ZnO for removal of arsenic and lead in water. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103800.	6.7	70
3	Preparation of Al ³⁺ -SBA-15 pellets with low amount of additives: Effect of binder content on texture and mechanical properties. Application to Friedel-Crafts alkylation. <i>Chemical Engineering Journal</i> , 2011, 168, 433-440.	12.7	31
4	Highly loaded carbon black supported Pt catalysts for fuel cells. <i>Catalysis Today</i> , 2015, 256, 375-383.	4.4	31
5	Comparison of Wicke-Kallenbach and Graham's diffusion cells for obtaining transport characteristics of porous solids. <i>Chemical Engineering Science</i> , 2008, 63, 1003-1011.	3.8	28
6	Wood chips gasification in a fixed-bed multi-stage gasifier for decentralized high-efficiency CHP and biochar production: Long-term commercial operation. <i>Fuel</i> , 2020, 281, 118637.	6.4	25
7	Binderless zeolite coatings on macroporous SiC foams. <i>Microporous and Mesoporous Materials</i> , 2014, 188, 99-107.	4.4	23
8	Remediation of contaminated soils by thermal desorption; effect of benzoyl peroxide addition. <i>Journal of Cleaner Production</i> , 2016, 125, 309-313.	9.3	23
9	Prediction and Evaluation of Time-Dependent Effective Self-diffusivity of Water and Other Effective Transport Properties Associated with Reconstructed Porous Solids. <i>Transport in Porous Media</i> , 2015, 110, 81-111.	2.6	22
10	Modeling of contaminant migration through porous media after underground coal gasification in shallow coal seam. <i>Fuel Processing Technology</i> , 2015, 140, 188-197.	7.2	20
11	Structural and chemical changes of sludge derived pyrolysis char prepared under different process temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105085.	5.5	20
12	Noble metal catalysts supported on nanofibrous polymeric membranes for environmental applications. <i>Catalysis Today</i> , 2014, 236, 3-11.	4.4	18
13	Effect of gold loading on ceria-zirconia support in total oxidation of VOCs. <i>Catalysis Today</i> , 2019, 333, 190-195.	4.4	18
14	Preparation and characterization of electrospun poly(p-phenylene oxide) membranes. <i>Catalysis Today</i> , 2012, 193, 165-171.	4.4	13
15	Gas transport through porous strata from underground reaction source; the influence of the gas kind, temperature and transport-pore size. <i>Fuel Processing Technology</i> , 2009, 90, 1495-1501.	7.2	12
16	Wicke-Kallenbach and Graham's diffusion cells: Limits of application for low surface area porous solids. <i>Chemical Engineering Science</i> , 2008, 63, 4490-4493.	3.8	11
17	Activated Carbon from Renewable Material as an Efficient Support for Palladium Oxidation Catalysts. <i>Chemical Engineering and Technology</i> , 2019, 42, 851-858.	1.5	11
18	Diffusion coefficients and other transport characteristics of peculiarly shaped porous materials in the single pellet-string column. <i>Microporous and Mesoporous Materials</i> , 2006, 91, 100-106.	4.4	7

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19	Nanofiber membranesâ€™ Evaluation of gas transport. <i>Catalysis Today</i> , 2010, 156, 316-321.	4.4	7
20	Application of Sorbents for Industrial Waste Water Purification. <i>Chemical Engineering and Technology</i> , 2015, 38, 667-674.	1.5	7
21	In situ sorption phenomena can mitigate potential negative environmental effects of underground coal gasification (UCG) - an experimental study of phenol removal on UCG-derived residues in the aspect of contaminant retardation. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111710.	6.0	5
22	Excess Adsorption Isotherms of Hydrogen on Activated Carbons from Agricultural Waste Materials. <i>Chemical Engineering and Technology</i> , 2017, 40, 900-906.	1.5	4
23	Axial dispersion in single pellet-string columns packed with unusually shaped porous pellets. <i>Chemical Engineering Journal</i> , 2005, 110, 11-18.	12.7	3
24	Comparison of transport characteristics and textural properties of porous material; the role of pore sizes and their distributions. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 217-224.	1.5	3
25	Starch/chitosan/glycerol films produced from low-value biomass: effect of starch source and weight ratio on film properties. <i>Journal of Physics: Conference Series</i> , 2019, 1173, 012008.	0.4	3
26	Determination of texture and transport characteristics of electrospun nanofibrous mats. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 437, 133-140.	4.7	2
27	Underground coal gasification: rates of post processing gas transport. <i>Chemical Papers</i> , 2014, 68, .	2.2	2
28	Dust Filtration Influence on the Performance of Catalytic Filters for NOx Reduction. <i>Emission Control Science and Technology</i> , 2018, 4, 300-311.	1.5	2
29	Determination of microstructural characteristics of advanced biocompatible nanofibrous membranes. <i>Microporous and Mesoporous Materials</i> , 2020, 304, 109328.	4.4	2
30	Solid waste decontamination by thermal desorption and catalytic oxidation methods. <i>Chemical Papers</i> , 2014, 68, .	2.2	1
31	Remediation of brownfields contaminated by organic compounds and heavy metals: a bench-scale test of a sulfur/vermiculite sorbent for mercury vapor removal. <i>Environmental Science and Pollution Research</i> , 2020, 27, 42182-42188.	5.3	1
32	Study of the adsorption of dyes employed in the food industry by activated carbon based on residual forestry. <i>Journal of Physics: Conference Series</i> , 2019, 1173, 012009.	0.4	0