

Petr Zmostn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

641
citations

14
h-index

24
g-index

53
ext. papers

743
ext. citations

4.3
avg, IF

4
L-index

#	Paper	IF	Citations
51	Hydrodeoxygenation of aldehydes catalyzed by supported palladium catalysts. <i>Applied Catalysis A: General</i> , 2007 , 332, 56-64	5.1	72
50	Experimental study of hydrocarbon structure effects on the composition of its pyrolysis products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010 , 87, 207-216	6	63
49	The kinetic model of thermal cracking for olefins production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2003 , 42, 461-473	3.7	59
48	Hydrodeoxygenation of benzophenone on Pd catalysts. <i>Applied Catalysis A: General</i> , 2005 , 296, 169-175	5.1	54
47	Application of random-search algorithm for regression analysis of catalytic hydrogenations. <i>Canadian Journal of Chemical Engineering</i> , 1997 , 75, 735-742	2.3	31
46	A software for regression analysis of kinetic data. <i>Computers & Chemistry</i> , 1999 , 23, 479-485		29
45	On the mechanism of colloidal silica action to improve flow properties of pharmaceutical excipients. <i>International Journal of Pharmaceutics</i> , 2019 , 556, 383-394	6.5	25
44	Identification of kinetic models of heterogeneously catalyzed reactions. <i>Applied Catalysis A: General</i> , 2002 , 225, 291-299	5.1	24
43	Effect of colloidal silica on rheological properties of common pharmaceutical excipients. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 106, 2-8	5.7	20
42	Hydrogenation and Hydrogenolysis of Acetophenone. <i>Collection of Czechoslovak Chemical Communications</i> , 2003 , 68, 1969-1984		19
41	Improving the steam-cracking efficiency of naphtha feedstocks by mixed/separate processing. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 146, 104768	6	18
40	Generalized model of n-heptane pyrolysis and steam cracking kinetics based on automated reaction network generation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 109, 159-167	6	18
39	Production of olefins via steam cracking of vegetable oils. <i>Resources, Conservation and Recycling</i> , 2012 , 59, 47-51	11.9	15
38	A Novel Approach for the Prediction of Hydrocarbon Thermal Cracking Product Yields from the Substitute Feedstock Composition. <i>Chemical Engineering and Technology</i> , 2005 , 28, 1166-1176	2	15
37	Increasing dissolution of trospium chloride by co-crystallization with urea. <i>Journal of Crystal Growth</i> , 2014 , 399, 19-26	1.6	13
36	Generalized Model of Hydrocarbons Pyrolysis Using Automated Reactions Network Generation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15407-15416	3.9	13
35	Investigation of Dissolution Mechanism and Release Kinetics of Poorly Water-Soluble Tadalafil from Amorphous Solid Dispersions Prepared by Various Methods. <i>Pharmaceutics</i> , 2019 , 11,	6.4	12

34	Application of hydrocarbon cracking experiments to ethylene unit control and optimization. <i>Petroleum Chemistry</i> , 2006 , 46, 237-245	1.1	12
33	A rate-controlling step in langmuir-kinshelwood kinetic models. <i>Canadian Journal of Chemical Engineering</i> , 2000 , 78, 513-521	2.3	12
32	Mathematical model of Fischer-Tropsch synthesis using variable alpha-parameter to predict product distribution. <i>Fuel</i> , 2019 , 243, 603-609	7.1	10
31	ANN modelling of pyrolysis utilising the characterisation of atmospheric gas oil based on incomplete data. <i>Chemical Engineering Science</i> , 2007 , 62, 5021-5025	4.4	10
30	Prediction of drug-polymer interactions in binary mixtures using energy balance supported by inverse gas chromatography. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 130, 247-259	5.1	9
29	Effective characterization of petroleum C7+ fractions. <i>Fuel</i> , 2012 , 102, 545-553	7.1	8
28	Application of a Semi-Mechanistic Model for Cracking Unit Balance. <i>Chemical Engineering and Technology</i> , 2015 , 38, 609-618	2	7
27	Effect of Maize Starch Excipient Properties on Drug Release Rate. <i>Procedia Engineering</i> , 2012 , 42, 482-488		7
26	Olefin production through pyrolysis of triacylglycerols. <i>Lipid Technology</i> , 2009 , 21, 220-223		7
25	Preparation of solid dispersions with respect to the dissolution rate of active substance. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 56, 101518	4.5	7
24	Evaluation of Functional Characteristics of Lactose by Inverse Gas Chromatography. <i>Procedia Engineering</i> , 2012 , 42, 644-650		4
23	Hydrogen production by catalysed pyrolysis of polymer blends. <i>Fuel</i> , 2011 , 90, 2334-2339	7.1	4
22	Compression of anisometric granular materials. <i>Powder Technology</i> , 2019 , 342, 887-898	5.2	4
21	Effect of polymer type on the surface energy of acetaminophen solid dispersions prepared by melt method. <i>International Journal of Pharmaceutics</i> , 2017 , 530, 107-112	6.5	3
20	Using the Semi-mechanistic Steam-cracking Model to Improve Steam-Cracker Operation. <i>Procedia Engineering</i> , 2012 , 42, 1946-1954		3
19	Meloxicam Carrier Systems Having Enhanced Release and Aqueous Wettability Prepared Using Micro-suspensions in Different Liquid Media. <i>AAPS PharmSciTech</i> , 2020 , 21, 155	3.9	3
18	Analysis of Drug Release from Different Agglomerates Using a Mathematical Model. <i>Dissolution Technologies</i> , 2014 , 21, 40-47	1.7	3
17	Effect of co-milling on dissolution rate of poorly soluble drugs. <i>International Journal of Pharmaceutics</i> , 2021 , 597, 120312	6.5	3

16	Fischer-Tropsch Wax from Renewable Resources as an Excellent Feedstock for the Steam-Cracking Process. <i>Chemical Engineering and Technology</i> , 2021 , 44, 329-338	2	3
15	Adhesion force measurement by centrifuge technique as tool for predicting interactive mixture stability. <i>Chemical Engineering Research and Design</i> , 2021 , 165, 467-476	5.5	3
14	Substitute Composition of Naphtha Based on Density, SIMDIST, and PIONA for Modeling of Steam Cracking. <i>Chemical Engineering and Technology</i> , 2017 , 40, 1008-1015	2	2
13	Breakage of anisometric rod-shaped particles. <i>Particulate Science and Technology</i> , 2018 , 36, 432-437	2	2
12	Prediction of Dissolution Behavior of Final Dosage Forms Prepared by Different Granulation Methods. <i>Procedia Engineering</i> , 2012 , 42, 1463-1473		2
11	MECHANISTIC STUDY OF DISSOLUTION ENHANCEMENT BY INTERACTIVE MIXTURES OF CHITOSAN WITH MELOXICAM AS MODEL. <i>European Journal of Pharmaceutical Sciences</i> , 2021 , 169, 106087	5.1	2
10	Semi-mechanistic Model Applied to the Search for Economically Optimal Conditions and Blending of Gasoline Feedstock for Steam-cracking Process. <i>MATEC Web of Conferences</i> , 2016 , 62, 04004	0.3	2
9	Stress-Dependent Particle Interactions of Magnesium Aluminometasilicates as Their Performance Factor in Powder Flow and Compaction Applications. <i>Materials</i> , 2021 , 14,	3.5	2
8	Experimental Evaluation of Hydrotreated Vegetable Oils as Novel Feedstocks for Steam-Cracking Process. <i>Processes</i> , 2021 , 9, 1504	2.9	2
7	Dry-Swabbing/Image Analysis Technique for the Pharmaceutical Equipment Cleaning Validation. <i>Procedia Engineering</i> , 2012 , 42, 447-453		1
6	Simplifying Complex Computer-Generated Reactions Network to Suppress Its Stiffness. <i>Procedia Engineering</i> , 2012 , 42, 1624-1633		1
5	Application of pyrolysis-capillary gas chromatography with NPD detection in thermal degradation of polyphosphazenes study. <i>Open Chemistry</i> , 2007 , 5, 271-290	1.6	1
4	Propylene column pressure relief valves chattering resulting in explosion and fire of the Steam Cracker unit. <i>Journal of Loss Prevention in the Process Industries</i> , 2022 , 74, 104658	3.5	1
3	Dirty-Hold Time Effect on the Cleaning Process Efficiency. <i>Procedia Engineering</i> , 2012 , 42, 431-436		0
2	Streamlining of the Powder Mixing Process based on a Segregation Test. <i>AAPS PharmSciTech</i> , 2021 , 22, 190	3.9	0
1	Effect of dirty-hold time on cleaning process of pharmaceutical equipment. <i>Pharmaceutical Development and Technology</i> , 2013 , 18, 274-9	3.4	