

L'udovÃ-t JelemenskÃ½

List of Publications by Year in descending order

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43
papers

788
citations

516710

16
h-index

526287

27
g-index

43
all docs

43
docs citations

43
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic study of wood chips decomposition by TGA. Chemical Papers, 2010, 64, .	2.2	155
2	Steady States Analysis and Dynamic Simulation as a Complement in the Hazop Study of Chemical Reactors. Chemical Engineering Research and Design, 2005, 83, 463-471.	5.6	43
3	Model-based HAZOP study of a real MTBE plant. Journal of Loss Prevention in the Process Industries, 2007, 20, 230-237.	3.3	43
4	Kinetic modeling for wet air oxidation of formic acid on a carbon supported platinum catalyst. Applied Catalysis A: General, 1997, 165, 499-509.	4.3	37
5	Verification of CFD pollution dispersion modelling based on experimental data. Journal of Loss Prevention in the Process Industries, 2011, 24, 166-177.	3.3	37
6	CFD dispersion modelling for emergency preparednes. Journal of Loss Prevention in the Process Industries, 2009, 22, 97-104.	3.3	35
7	Influence of particle size and kinetic parameters on tire pyrolysis. Journal of Analytical and Applied Pyrolysis, 2012, 97, 73-79.	5.5	35
8	Model predictions on self-heating and prevention of stockpiled coals. Journal of Loss Prevention in the Process Industries, 2004, 17, 205-216.	3.3	33
9	Experimental and modelling investigations of single coal particle combustion. Chemical Engineering Science, 2001, 56, 1355-1361.	3.8	29
10	Experimental study of pyrolysis and combustion of scrap tire. Polymers for Advanced Technologies, 2007, 18, 144-148.	3.2	28
11	Model-based hazard identification in multiphase chemical reactors. Journal of Loss Prevention in the Process Industries, 2014, 29, 155-162.	3.3	25
12	CFD simulations of ammonia dispersion using "dynamic" boundary conditions. Chemical Engineering Research and Design, 2010, 88, 243-252.	5.6	24
13	The role of a commercial process simulator in computer aided HAZOP approach. Chemical Engineering Research and Design, 2017, 107, 12-21.	5.6	24
14	Multiple steady-states for the oxidation of aqueous ethanol with oxygen on a carbon supported platinum catalyst. Catalysis Letters, 1995, 30, 269-277.	2.6	19
15	Kinetic modelling of multiple steady-states for the oxidation of aqueous ethanol with oxygen on a carbon supported platinum catalyst. Chemical Engineering Science, 1996, 51, 1767-1776.	3.8	19
16	Identification of the mechanism of coal char particle combustion by porous structure characterization. Fuel Processing Technology, 2004, 85, 303-321.	7.2	17
17	Mathematical model of a chemical reactor "useful tool for its safety analysis and design. Chemical Engineering Science, 2007, 62, 4915-4919.	3.8	16
18	Software approach to simulation-based hazard identification of complex industrial processes. Computers and Chemical Engineering, 2019, 122, 66-79.	3.8	16

#	ARTICLE	IF	CITATIONS
19	Impact of mass transfer coefficient correlations on prediction of reactive distillation column behaviour. <i>Chemical Engineering Journal</i> , 2008, 140, 381-390.	12.7	14
20	Influence of parameter uncertainty on modeling of industrial ammonia reactor for safety and operability analysis. <i>Journal of Loss Prevention in the Process Industries</i> , 2010, 23, 280-288.	3.3	14
21	Safety analysis of CSTR towards changes in operating conditions. <i>Journal of Loss Prevention in the Process Industries</i> , 2003, 16, 373-380.	3.3	13
22	Impact of mathematical model selection on prediction of steady state and dynamic behaviour of a reactive distillation column. <i>Computers and Chemical Engineering</i> , 2009, 33, 788-793.	3.8	13
23	CFD-based atmospheric dispersion modeling in real urban environments. <i>Chemical Papers</i> , 2013, 67, .	2.2	12
24	Some Considerations for Safety Analysis of Chemical Reactors. <i>Chemical Engineering Research and Design</i> , 2005, 83, 167-176.	5.6	11
25	Dynamic behaviour of a CSTR with reactive distillation. <i>Chemical Engineering Journal</i> , 2006, 119, 113-120.	12.7	8
26	Kinetic study of pyrolysis of waste water treatment plant sludge. <i>Chemical Papers</i> , 2011, 65, .	2.2	7
27	Numerical algorithm for modeling of reactive separation column with fast chemical reaction. <i>Chemical Engineering Journal</i> , 2009, 150, 252-260.	12.7	6
28	Kinetics of thermal degradation of wood biomass. <i>Chemical Papers</i> , 2014, 68, .	2.2	6
29	Monte Carlo Based Framework to Support HAZOP Study. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2233-2238.	0.5	6
30	Fault propagation behavior study of CSTR in HAZOP. <i>Chemical Papers</i> , 2018, 72, 515-526.	2.2	6
31	Integration of process control protection layer into a simulation-based HAZOP tool. <i>Journal of Loss Prevention in the Process Industries</i> , 2019, 57, 291-303.	3.3	6
32	Kinetic models of simple alcohols SCWG. <i>Chemical Papers</i> , 2020, 74, 333-347.	2.2	5
33	Use of bifurcation analysis for identification of a safe CSTR operability. <i>Journal of Loss Prevention in the Process Industries</i> , 2004, 17, 489-498.	3.3	4
34	Catalytic gasification of pyrolytic oil from tire pyrolysis process. <i>Chemical Papers</i> , 2013, 67, .	2.2	4
35	Utilization of parallel computing in chemical engineering. <i>Acta Chimica Slovaca</i> , 2015, 8, 146-151.	0.8	4
36	Chemical reaction in spouted beds. <i>Chemical Engineering Science</i> , 1993, 48, 3104-3107.	3.8	3

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37	Design and simulation of a reactor for the chlorination of acetone in gaseous phase. Chemical Engineering Science, 2001, 56, 627-632.	3.8	3
38	Ammonia synthesis fundamentals for a model-based HAZOP study. Acta Chimica Slovaca, 2015, 8, 5-10.	0.8	2
39	Model based hazard identification: Process time accelerated by GPU redesigning approach. Computers and Chemical Engineering, 2021, 144, 107129.	3.8	2
40	Mechanism of coal char burning at a low oxygen content in the feed stream. Journal of Thermal Analysis and Calorimetry, 2004, 76, 237-245.	3.6	1
41	Design, optimization and safety analysis of a heterogeneous tubular reactor by using the HAZOP methodology. Computer Aided Chemical Engineering, 2007, 24, 1241-1246.	0.5	1
42	Catalytic gasification of tars from a dumping site. Journal of Material Cycles and Waste Management, 2013, 15, 581-591.	3.0	1
43	Design of Biomass Gasification and Combined Heat and Power Plant Based on Laboratory Experiments. Springer Proceedings in Physics, 2014, , 171-178.	0.2	1