# 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 | Model based hazard identification: Process time accelerated by GPU redesigning approach. Computers and Chemical Engineering, 2021, 144, 107129. | 3.8 | 2 |
| 2 | Kinetic models of simple alcohols SCWG. Chemical Papers, 2020, 74, 333-347. | 2.2 | 5 |
| 3 | Software approach to simulation-based hazard identification of complex industrial processes. Computers and Chemical Engineering, 2019, 122, 66-79. | 3.8 | 16 |
| 4 | Integration of process control protection layer into a simulation-based HAZOP tool. Journal of Loss Prevention in the Process Industries, 2019, 57, 291-303. | 3.3 | 6 |
| 5 | Fault propagation behavior study of CSTR in HAZOP. Chemical Papers, 2018, 72, 515-526. | 2.2 | 6 |
| 6 | The role of a commercial process simulator in computer aided HAZOP approach. Chemical Engineering Research and Design, 2017, 107, 12-21. | 5.6 | 24 |
| 7 | Monte Carlo Based Framework to Support HAZOP Study. Computer Aided Chemical Engineering, 2017, 40, 2233-2238. | 0.5 | 6 |
| 8 | Utilization of parallel computing in chemical engineering. Acta Chimica Slovaca, 2015, 8, 146-151. | 0.8 | 4 |
| 9 | Ammonia synthesis fundamentals for a model-based HAZOP study. Acta Chimica Slovaca, 2015, 8, 5-10. | 0.8 | 2 |
| 10 | Kinetics of thermal degradation of wood biomass. Chemical Papers, 2014, 68, . | 2.2 | 6 |
| 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 | Design of Biomass Gasification and Combined Heat and Power Plant Based on Laboratory Experiments. Springer Proceedings in Physics, 2014, , 171-178. | 0.2 | 1 |
| 13 | CFD-based atmospheric dispersion modeling in real urban environments. Chemical Papers, 2013, 67, . | 2.2 | 12 |
| 14 | Catalytic gasification of tars from a dumping site. Journal of Material Cycles and Waste Management, 2013, 15, 581-591. | 3.0 | 1 |
| 15 | Catalytic gasification of pyrolytic oil from tire pyrolysis process. Chemical Papers, 2013, 67, . | 2.2 | 4 |
| 16 | Influence of particle size and kinetic parameters on tire pyrolysis. Journal of Analytical and Applied Pyrolysis, 2012, 97, 73-79. | 5.5 | 35 |
| 17 | Kinetic study of pyrolysis of waste water treatment plant sludge. Chemical Papers, 2011, 65, . | 2.2 | 7 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Kinetic study of wood chips decomposition by TGA. Chemical Papers, 2010, 64, . | 2.2 | 155 |
| 20 | CFD simulations of ammonia dispersion using â€œdynamicâ€•boundary conditions. Chemical Engineering Research and Design, 2010, 88, 243-252. | 5.6 | 24 |
| 21 | Influence of parameter uncertainty on modeling of industrial ammonia reactor for safety and operability analysis. Journal of Loss Prevention in the Process Industries, 2010, 23, 280-288. | 3.3 | 14 |
| 22 | CFD dispersion modelling for emergency preparadnes. Journal of Loss Prevention in the Process Industries, 2009, 22, 97-104. | 3.3 | 35 |
| 23 | Numerical algorithm for modeling of reactive separation column with fast chemical reaction. Chemical Engineering Journal, 2009, 150, 252-260. | 12.7 | 6 |
| 24 | Impact of mathematical model selection on prediction of steady state and dynamic behaviour of a reactive distillation column. Computers and Chemical Engineering, 2009, 33, 788-793. | 3.8 | 13 |
| 25 | Impact of mass transfer coefficient correlations on prediction of reactive distillation column behaviour. Chemical Engineering Journal, 2008, 140, 381-390. | 12.7 | 14 |
| 26 | 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 |
| 27 | Model-based HAZOP study of a real MTBE plant. Journal of Loss Prevention in the Process Industries, 2007, 20, 230-237. | 3.3 | 43 |
| 28 | Experimental study of pyrolysis and combustion of scrap tire. Polymers for Advanced Technologies, 2007, 18, 144-148. | 3.2 | 28 |
| 29 | Mathematical model of a chemical reactorâ€”useful tool for its safety analysis and design. Chemical Engineering Science, 2007, 62, 4915-4919. | 3.8 | 16 |
| 30 | Dynamic behaviour of a CSTR with reactive distillation. Chemical Engineering Journal, 2006, 119, 113-120. | 12.7 | 8 |
| 31 | Some Considerations for Safety Analysis of Chemical Reactors. Chemical Engineering Research and Design, 2005, 83, 167-176. | 5.6 | 11 |
| 32 | 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 |
| 33 | 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 |
| 34 | Identification of the mechanism of coal char particle combustion by porous structure characterization. Fuel Processing Technology, 2004, 85, 303-321. | 7.2 | 17 |
| 35 | 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 |
| 36 | Use of bifurcation analysis for identification of a safe CSTR operability. Journal of Loss Prevention in the Process Industries, 2004, 17, 489-498. | 3.3 | 4 |

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|---|---|---|---|
| 37 | Safety analysis of CSTR towards changes in operating conditions. Journal of Loss Prevention in the Process Industries, 2003, 16, 373-380. | 3.3 | 13 |
| 38 | Design and simulation of a reactor for the chlorination of acetone in gaseous phase. Chemical Engineering Science, 2001, 56, 627-632. | 3.8 | 3 |
| 39 | Experimental and modelling investigations of single coal particle combustion. Chemical Engineering Science, 2001, 56, 1355-1361. | 3.8 | 29 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Chemical reaction in spouted beds. Chemical Engineering Science, 1993, 48, 3104-3107. | 3.8 | 3 |