

Zdzisław Jaworski

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

415
citations

840776

11
h-index

794594

19
g-index

36
all docs

36
docs citations

36
times ranked

444
citing authors

#	ARTICLE	IF	CITATIONS
1	CFD modelling of continuous precipitation of barium sulphate in a stirred tank. <i>Chemical Engineering Journal</i> , 2003, 91, 167-174.	12.7	60
2	On thermodynamic equilibrium of carbon deposition from gaseous C-H-O mixtures: updating for nanotubes. <i>Reviews in Chemical Engineering</i> , 2017, 33, .	4.4	42
3	A study of an upâ€and a downâ€pumping wide blade hydrofoil impeller: Part I. LDA measurements. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 577-588.	1.7	30
4	A Numerical Investigation of the Thermal Stresses of a Planar Solid Oxide Fuel Cell. <i>Materials</i> , 2016, 9, 814.	2.9	27
5	Carbomer microgels as model yield-stress fluids. <i>Reviews in Chemical Engineering</i> , 2022, 38, 881-919.	4.4	27
6	CFD modelling of turbulent macromixing in stirred tanks. Effect of the probe size and number on mixing indices. <i>Computers and Chemical Engineering</i> , 1998, 22, S293-S298.	3.8	23
7	Towards multiscale modelling in product engineering. <i>Computers and Chemical Engineering</i> , 2011, 35, 434-445.	3.8	23
8	A study of an upâ€and a downâ€pumping wideâ€blade hydrofoil impeller: Part II. CFD analysis. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 866-876.	1.7	15
9	CFD modelling of two-phase liquid-liquid flow in a SMX static mixer. <i>Polish Journal of Chemical Technology</i> , 2009, 11, 41-49.	0.5	15
10	Modeling of thermal stresses in a microtubular Solid Oxide Fuel Cell stack. <i>Journal of Power Sources</i> , 2015, 300, 10-23.	7.8	13
11	A comparative study of thermodynamic electrolyte models applied to the Solvay soda system. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2011, 32, 135-154.	0.7	12
12	Quantification of the Radiative and Convective Heat Transfer Processes and their Effect on mSOFC by CFD Modelling. <i>Polish Journal of Chemical Technology</i> , 2014, 16, 51-55.	0.5	12
13	Numerical investigation of a novel burner to combust anode exhaust gases of SOFC stacks. <i>Polish Journal of Chemical Technology</i> , 2017, 19, 20-26.	0.5	12
14	Comparative PIV and LDA studies of Newtonian and non-Newtonian flows in an agitated tank. <i>Chemical Papers</i> , 2018, 72, 593-602.	2.2	11
15	Model development of integrated CPOx reformer and SOFC stack system. <i>Polish Journal of Chemical Technology</i> , 2016, 18, 41-46.	0.5	8
16	A new model of cavern diameter based on a validated CFD study on stirring of a highly shear-thinning fluid. <i>Chemical Papers</i> , 2017, 71, 1255-1269.	2.2	8
17	CFD modelling of hydrogen starvation conditions in a planar Solid Oxide Fuel Cell. <i>Polish Journal of Chemical Technology</i> , 2017, 19, 16-25.	0.5	8
18	Fluctuations of the non-Newtonian fluid flow in a Kenics static mixer: An experimental study. <i>Polish Journal of Chemical Technology</i> , 2008, 10, 35-37.	0.5	7

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19	A Comparative Thermodynamic Study of Equilibrium Conditions for Carbon Deposition from Catalytic C ₂ H ₄ O Reformates. <i>Energies</i> , 2018, 11, 1177.	3.1	7
20	Simulation of the steady-state behaviour of a new design of a single planar Solid Oxide Fuel Cell. <i>Polish Journal of Chemical Technology</i> , 2016, 18, 64-71.	0.5	6
21	LES and URANS modelling of turbulent liquid-liquid flow in a static mixer: Turbulent kinetic energy and turbulence dissipation rate. <i>Chemical Papers</i> , 2010, 64, .	2.2	5
22	Cfd Analysis of Heat Transfer in a Microtubular Solid Oxide Fuel Cell Stack. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2014, 35, 293-304.	0.7	5
23	On nanotube carbon deposition at equilibrium in catalytic partial oxidation of selected hydrocarbon fuels. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16920-16931.	7.1	5
24	Transient CFD simulations of turbulent liquid - liquid flow in a Kenics static mixer. Radial and tangential velocities. <i>Polish Journal of Chemical Technology</i> , 2009, 11, 36-40.	0.5	4
25	Investigation of turbulent flow field in a Kenics static mixer by Laser Doppler Anemometry. <i>Chemical Papers</i> , 2013, 67, .	2.2	4
26	Computational Fluid Dynamics calculation of a planar solid oxide fuel cell design running on syngas. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017, 38, 513-521.	0.7	4
27	Prediction of liquid-liquid flow in an SMX static mixer using large eddy simulations. <i>Chemical Papers</i> , 2010, 64, .	2.2	3
28	Liquid-solid equilibrium for the NaCl-NaHCO ₃ -Na ₂ CO ₃ -H ₂ O system at 45°C. Validation of mixed solvent electrolyte model. <i>Chemical Papers</i> , 2013, 67, .	2.2	3
29	Multiscale Modeling of Solid Oxide Fuel Cell Systems. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1029-1043.	0.8	3
30	3D CFD fluid flow and thermal analyses of a new design of plate heat exchanger. <i>Polish Journal of Chemical Technology</i> , 2017, 19, 17-26.	0.5	3
31	Influence of rheological properties of stirred liquids on the axial and tangential forces in a vessel with a PMT impeller. <i>Chemical Engineering Research and Design</i> , 2018, 138, 398-404.	5.6	3
32	On the Deposition Equilibrium of Carbon Nanotubes or Graphite in the Reforming Processes of Lower Hydrocarbon Fuels. <i>Entropy</i> , 2017, 19, 650.	2.2	2
33	CFD Determination of Macro-Scale Concentration Distribution in Stirred Tank.. <i>Journal of Chemical Engineering of Japan</i> , 2001, 34, 715-723.	0.6	2
34	CFD SIMULATIONS OF THE TURBULENT LIQUID-LIQUID FLOW IN A KENICS STATIC MIXER. <i>Multiphase Science and Technology</i> , 2009, 21, 37-50.	0.5	2
35	Numerical analysis of thermal stresses in a new design of microtubular stack. <i>Open Chemistry</i> , 2015, 13, .	1.9	1
36	An Algebraic Description of the Absorption Equilibrium for the Solvay Soda System. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2901-2908.	1.9	0