

Jan SkoÅilas

List of Publications by Year in descending order

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54
papers

208
citations

1163117

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1281871

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54
all docs

54
docs citations

54
times ranked

107
citing authors

#	ARTICLE	IF	CITATIONS
1	A method for the determination of shear viscosity of power-law fluids in a rectangular duct and concentric annulus. Asia-Pacific Journal of Chemical Engineering, 2022, 17, e2727.	1.5	2
2	Effects of Extrusion and Irradiation on the Mechanical Properties of a Water-Collagen Solution. Polymers, 2022, 14, 578.	4.5	5
3	Transverse Wave Propagation in a Thin Isotropic Plate Part I. Applied Sciences (Switzerland), 2022, 12, 2493.	2.5	0
4	Vertical Oscillation of Railway Vehicle Chassis with Asymmetry Effect Consideration. Sensors, 2022, 22, 4033.	3.8	3
5	Friction factor of shear thinning fluids in non-circular ducts—a simplified approach for rapid engineering calculation. Chemical Engineering Communications, 2021, 208, 1209-1217.	2.6	3
6	Extrusion rheometry of collagen dough. Czech Journal of Food Sciences, 2021, 39, 384-392.	1.2	5
7	Experimental assessment of eigenfrequencies and stiffness of the elastically supported body. IOP Conference Series: Materials Science and Engineering, 2021, 1199, 012082.	0.6	0
8	Convergence of Dual Infinity Series. Springer Proceedings in Mathematics and Statistics, 2021, , 25-36.	0.2	0
9	Loading of thin composite plate by low-speed impact. IOP Conference Series: Materials Science and Engineering, 2021, 1199, 012078.	0.6	0
10	Analysis of Power Input of an In-Line Rotor-Stator Mixer for Viscoplastic Fluids. Processes, 2020, 8, 916.	2.8	1
11	Vertical vibration of the vehicle when crossing over transverse speed bumps. Manufacturing Technology, 2020, 20, 55-59.	1.4	7
12	Exploring exam strategies of successful first year engineering students. , 2020, , .		1
13	Ventilator of air cooler. AIP Conference Proceedings, 2019, , .	0.4	1
14	Vertical oscillation investigation of spatially elastically supported rigid plate – vehicle model. MATEC Web of Conferences, 2019, 254, 03010.	0.2	1
15	A practical method for predicting the friction factor of power-law fluids in a rectangular duct. Chemical Engineering Communications, 2019, 206, 1310-1316.	2.6	4
16	Mixing of a viscoplastic fluid in an in-line mixer. AIP Conference Proceedings, 2019, , .	0.4	0
17	Effect of rotation direction of helical-ribbon agitator on circulation of high viscous batch. AIP Conference Proceedings, 2019, , .	0.4	0
18	Impact of elastic rod on thin elastic isotropic and orthotropic plate. AIP Conference Proceedings, 2019, , .	0.4	0

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19	Investigation of mechanical properties of viscoelastic clusters of particles. AIP Conference Proceedings, 2019, , .	0.4	1
20	Finite Element Modelling of Shock Wave Propagation Over Obstacles. Manufacturing Technology, 2019, 19, 499-507.	1.4	4
21	Cooling of core during aluminum casting. AIP Conference Proceedings, 2018, , .	0.4	1
22	Vibration of the steel frame of the primary sand classifier. MATEC Web of Conferences, 2018, 157, 05020.	0.2	0
23	Forced convection and heat transfer around a bounded cylinder. MATEC Web of Conferences, 2018, 157, 02045.	0.2	3
24	Learning Analytics Dashboard Analysing First-Year Engineering Students. Lecture Notes in Computer Science, 2018, , 575-578.	1.3	2
25	Pressure and velocity conditions in home health care accessory for babies. MATEC Web of Conferences, 2018, 168, 02013.	0.2	0
26	Vibration of Mechanical System with Higher Degrees of Freedom: Solution of the Frequency Equations. Procedia Engineering, 2017, 177, 17-24.	1.2	6
27	Simulation of collagen solution flow in rectangular capillary. EPJ Web of Conferences, 2017, 143, 02063.	0.3	0
28	Vertical Vibration of Two Axle Railway Vehicle. Procedia Engineering, 2017, 177, 25-32.	1.2	11
29	Flow of bovine collagen in rectangular slit. AIP Conference Proceedings, 2017, , .	0.4	3
30	Assessment of railway wagon suspension characteristics. Mechanical Systems and Signal Processing, 2017, 89, 67-77.	8.0	6
31	ELECTRICAL AND THERMODYNAMIC PROPERTIES OF A COLLAGEN SOLUTION. Acta Polytechnica, 2017, 57, 229-234.	0.6	8
32	Rheological Properties of Collagen Matter Predicted Using an Extrusion Rheometer. Journal of Texture Studies, 2016, 47, 514-522.	2.5	8
33	Analysis of hydraulic resistance in conical wye. AIP Conference Proceedings, 2016, , .	0.4	4
34	Squeezing flow of collagen solution – Mathematical model of shear and elastic behavior. AIP Conference Proceedings, 2015, , .	0.4	2
35	CFD SIMULATION OF THE HEAT TRANSFER PROCESS IN A CHEVRON PLATE HEAT EXCHANGER USING THE SST TURBULENCE MODEL. Acta Polytechnica, 2015, 55, 267.	0.6	5
36	UNSTEADY FLOW OF THIXOTROPIC COLLAGEN SUBSTANCE IN PIPES. Acta Polytechnica, 2015, 55, 352.	0.6	1

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37	Central inertia moments and gravity center of large volume and weight bodies. International Journal of Dynamics and Control, 2015, 3, 100-108.	2.5	5
38	Hydraulic characteristic of collagen. Czech Journal of Food Sciences, 2015, 33, 479-485.	1.2	3
39	Solidification of the Aluminium Alloy in the Mold. Manufacturing Technology, 2015, 15, 909-914.	1.4	6
40	Nusselt Number Criteria Equations in the Cross Flow over Single Tube. Manufacturing Technology, 2015, 15, 1043-1048.	1.4	4
41	Vertical Vibration of the Vehicle Model with Higher Degree of Freedom. Procedia Engineering, 2014, 96, 435-443.	1.2	10
42	A Combined Numerical and Modal Analysis on Vertical Vibration Response of Railway Vehicle. Procedia Engineering, 2014, 96, 310-319.	1.2	13
43	Determination of pressure drop coefficient by CFD simulation. AIP Conference Proceedings, 2014, , .	0.4	12
44	Application of Mesh-free Methods in Transient Dynamic Analysis of Orthotropic Plates. Manufacturing Technology, 2014, 14, 441-447.	1.4	10
45	Motion Equations Isotropic and Orthotropic Plate Impacted by Elastic Rod. Journal of Applied Nonlinear Dynamics, 2014, 3, 393-401.	0.3	3
46	A Study of CFD Simulations of the Flow Pattern in an Agitated System with a Pitched Blade Worn Turbine. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2013, 34, 39-49.	0.7	3
47	CFD SIMULATION OF A STIRRED DISHED BOTTOM VESSEL. Acta Polytechnica, 2013, 53, 906-912.	0.6	1
48	Determination of the rheological properties of thin plate under transient vibration. Latin American Journal of Solids and Structures, 2013, 10, 189-195.	1.0	11
49	Simulation of Liquid Flow in Pipe. Manufacturing Technology, 2013, 13, 542-547.	1.4	15
50	Transient vibration of thin viscoelastic orthotropic plates. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 98-107.	3.4	11
51	Starch Foam Expansion in a Closed Mold. Food and Bioprocess Technology, 2010, 3, 615-619.	4.7	0
52	Properties of Starch Based Foams Made by Thermal Pressure Forming. Acta Polytechnica, 2008, 48, .	0.6	1
53	Finite Element Transient Dynamic Analysis of Laminated Composite Plates. Applied Mechanics and Materials, 0, 732, 357-364.	0.2	2
54	Tangential Fluid Flow in a Convective Dryer with Drying Technology Using Nebulisation. , 0, , .		0