

# Jan SkoÅilas

## List of Publications by Year in descending order

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54  
papers

208  
citations

1163117

8  
h-index

1281871

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g-index

54  
all docs

54  
docs citations

54  
times ranked

107  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of Liquid Flow in Pipe. <i>Manufacturing Technology</i> , 2013, 13, 542-547.	1.4	15
2	A Combined Numerical and Modal Analysis on Vertical Vibration Response of Railway Vehicle. <i>Procedia Engineering</i> , 2014, 96, 310-319.	1.2	13
3	Determination of pressure drop coefficient by CFD simulation. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	12
4	Transient vibration of thin viscoelastic orthotropic plates. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2011, 27, 98-107.	3.4	11
5	Vertical Vibration of Two Axle Railway Vehicle. <i>Procedia Engineering</i> , 2017, 177, 25-32.	1.2	11
6	Determination of the rheological properties of thin plate under transient vibration. <i>Latin American Journal of Solids and Structures</i> , 2013, 10, 189-195.	1.0	11
7	Vertical Vibration of the Vehicle Model with Higher Degree of Freedom. <i>Procedia Engineering</i> , 2014, 96, 435-443.	1.2	10
8	Application of Mesh-free Methods in Transient Dynamic Analysis of Orthotropic Plates. <i>Manufacturing Technology</i> , 2014, 14, 441-447.	1.4	10
9	Rheological Properties of Collagen Matter Predicted Using an Extrusion Rheometer. <i>Journal of Texture Studies</i> , 2016, 47, 514-522.	2.5	8
10	ELECTRICAL AND THERMODYNAMIC PROPERTIES OF A COLLAGEN SOLUTION. <i>Acta Polytechnica</i> , 2017, 57, 229-234.	0.6	8
11	Vertical vibration of the vehicle when crossing over transverse speed bumps. <i>Manufacturing Technology</i> , 2020, 20, 55-59.	1.4	7
12	Vibration of Mechanical System with Higher Degrees of Freedom: Solution of the Frequency Equations. <i>Procedia Engineering</i> , 2017, 177, 17-24.	1.2	6
13	Assessment of railway wagon suspension characteristics. <i>Mechanical Systems and Signal Processing</i> , 2017, 89, 67-77.	8.0	6
14	Solidification of the Aluminium Alloy in the Mold. <i>Manufacturing Technology</i> , 2015, 15, 909-914.	1.4	6
15	CFD SIMULATION OF THE HEAT TRANSFER PROCESS IN A CHEVRON PLATE HEAT EXCHANGER USING THE SST TURBULENCE MODEL. <i>Acta Polytechnica</i> , 2015, 55, 267.	0.6	5
16	Central inertia moments and gravity center of large volume and weight bodies. <i>International Journal of Dynamics and Control</i> , 2015, 3, 100-108.	2.5	5
17	Extrusion rheometry of collagen dough. <i>Czech Journal of Food Sciences</i> , 2021, 39, 384-392.	1.2	5
18	Effects of Extrusion and Irradiation on the Mechanical Properties of a Water Collagen Solution. <i>Polymers</i> , 2022, 14, 578.	4.5	5

#	ARTICLE	IF	CITATIONS
19	Analysis of hydraulic resistance in conical wye. AIP Conference Proceedings, 2016, , .	0.4	4
20	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
21	Finite Element Modelling of Shock Wave Propagation Over Obstacles. Manufacturing Technology, 2019, 19, 499-507.	1.4	4
22	Nusselt Number Criteria Equations in the Cross Flow over Single Tube. Manufacturing Technology, 2015, 15, 1043-1048.	1.4	4
23	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
24	Hydraulic characteristic of collagen. Czech Journal of Food Sciences, 2015, 33, 479-485.	1.2	3
25	Flow of bovine collagen in rectangular slit. AIP Conference Proceedings, 2017, , .	0.4	3
26	Forced convection and heat transfer around a bounded cylinder. MATEC Web of Conferences, 2018, 157, 02045.	0.2	3
27	Friction factor of shear thinning fluids in non-circular ductsâ€”a simplified approach for rapid engineering calculation. Chemical Engineering Communications, 2021, 208, 1209-1217.	2.6	3
28	Motion Equations Isotropic and Orthotropic Plate Impacted by Elastic Rod. Journal of Applied Nonlinear Dynamics, 2014, 3, 393-401.	0.3	3
29	Vertical Oscillation of Railway Vehicle Chassis with Asymmetry Effect Consideration. Sensors, 2022, 22, 4033.	3.8	3
30	Squeezing flow of collagen solution â€” Mathematical model of shear and elastic behavior. AIP Conference Proceedings, 2015, , .	0.4	2
31	Finite Element Transient Dynamic Analysis of Laminated Composite Plates. Applied Mechanics and Materials, 0, 732, 357-364.	0.2	2
32	Learning Analytics Dashboard Analysing First-Year Engineering Students. Lecture Notes in Computer Science, 2018, , 575-578.	1.3	2
33	A method for the determination of shear viscosity of powerâ€”law fluids in a rectangular duct and concentric annulus. Asia-Pacific Journal of Chemical Engineering, 2022, 17, e2727.	1.5	2
34	CFD SIMULATION OF A STIRRED DISHED BOTTOM VESSEL. Acta Polytechnica, 2013, 53, 906-912.	0.6	1
35	UNSTEADY FLOW OF THIXOTROPIC COLLAGEN SUBSTANCE IN PIPES. Acta Polytechnica, 2015, 55, 352.	0.6	1
36	Cooling of core during aluminum casting. AIP Conference Proceedings, 2018, , .	0.4	1

#	ARTICLE	IF	CITATIONS
37	Ventilator of air cooler. AIP Conference Proceedings, 2019, , .	0.4	1
38	Vertical oscillation investigation of spatially elastically supported rigid plate “ vehicle model. MATEC Web of Conferences, 2019, 254, 03010.	0.2	1
39	Investigation of mechanical properties of viscoelastic clusters of particles. AIP Conference Proceedings, 2019, , .	0.4	1
40	Analysis of Power Input of an In-Line Rotor-Stator Mixer for Viscoplastic Fluids. Processes, 2020, 8, 916.	2.8	1
41	Properties of Starch Based Foams Made by Thermal Pressure Forming. Acta Polytechnica, 2008, 48, .	0.6	1
42	Exploring exam strategies of successful first year engineering students. , 2020, , .		1
43	Starch Foam Expansion in a Closed Mold. Food and Bioprocess Technology, 2010, 3, 615-619.	4.7	0
44	Simulation of collagen solution flow in rectangular capillary. EPI Web of Conferences, 2017, 143, 02063.	0.3	0
45	Vibration of the steel frame of the primary sand classifier. MATEC Web of Conferences, 2018, 157, 05020.	0.2	0
46	Mixing of a viscoplastic fluid in an in-line mixer. AIP Conference Proceedings, 2019, , .	0.4	0
47	Effect of rotation direction of helical-ribbon agitator on circulation of high viscous batch. AIP Conference Proceedings, 2019, , .	0.4	0
48	Impact of elastic rod on thin elastic isotropic and orthotropic plate. AIP Conference Proceedings, 2019, , .	0.4	0
49	Pressure and velocity conditions in home health care accessory for babies. MATEC Web of Conferences, 2018, 168, 02013.	0.2	0
50	Tangential Fluid Flow in a Convective Dryer with Drying Technology Using Nebulisation. , 0, , .		0
51	Experimental assessment of eigenfrequencies and stiffness of the elastically supported body. IOP Conference Series: Materials Science and Engineering, 2021, 1199, 012082.	0.6	0
52	Convergence of Dual Infinity Series. Springer Proceedings in Mathematics and Statistics, 2021, , 25-36.	0.2	0
53	Transverse Wave Propagation in a Thin Isotropic Plate Part I. Applied Sciences (Switzerland), 2022, 12, 2493.	2.5	0
54	Loading of thin composite plate by low-speed impact. IOP Conference Series: Materials Science and Engineering, 2021, 1199, 012078.	0.6	0