

# Pavel Kuřera

## List of Publications by Year in descending order

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43  
papers

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687363  
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44  
all docs

44  
docs citations

44  
times ranked

121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of centrifugal compressor instabilities for internal combustion engines operating cycle simulation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 572-584.	1.9	6
2	Influence of Geometric Parameters of Conical Acrylic Portholes on Their Stress–Strain Behaviour. Polymers, 2022, 14, 1041.	4.5	2
3	Effect of Heating Conditions during Moulding on Residual Stress–Strain Behaviour of a Composite Panel. Polymers, 2022, 14, 1660.	4.5	1
4	Determination of the Composite Panel Moulding Pressure Value. Polymers, 2022, 14, 2392.	4.5	0
5	Determination of residual resource of flat wagons load-bearing structures with a 25-year service life. IOP Conference Series: Materials Science and Engineering, 2021, 1021, 012005.	0.6	4
6	Acoustic Method for Estimation of Marine Low-Speed Engine Turbocharger Parameters. Journal of Marine Science and Engineering, 2021, 9, 321.	2.6	24
7	Aspects of Strength Testing of Tank Containers in Compliance with the Requirements of the UN Navigation Rules and Regulations. Journal of Marine Science and Engineering, 2021, 9, 349.	2.6	3
8	Determination of the Vertical Load on the Carrying Structure of a Flat Wagon with the 18–100 and Y25 Bogies. Applied Sciences (Switzerland), 2021, 11, 4130.	2.5	4
9	Research and Development of Self-Contained Water Injection Systems. International Journal of Environmental Research and Public Health, 2021, 18, 5392.	2.6	0
10	Substantiation of Improvements for the Bearing Structure of an Open Car to Provide a Higher Security during Rail/Sea Transportation. Journal of Marine Science and Engineering, 2021, 9, 873.	2.6	9
11	Self-Heating Mould for Composite Manufacturing. Polymers, 2021, 13, 3074.	4.5	26
12	Stress–Strain Behaviour of Reparable Composite Panel with Step-Variable Thickness. Polymers, 2021, 13, 3830.	4.5	27
13	Effects of the Temperature–Time Regime of Curing of Composite Patch on Repair Process Efficiency. Polymers, 2021, 13, 4342.	4.5	17
14	Acoustic Identification of Turbocharger Impeller Mistuning—A New Tool for Low Emission Engine Development. Applied Sciences (Switzerland), 2020, 10, 6394.	2.5	4
15	Dynamic Load and Strength Determination of Carrying Structure of Wagons Transported by Ferries. Journal of Marine Science and Engineering, 2020, 8, 902.	2.6	25
16	Dynamic Load Modelling within Combined Transport Trains during Transportation on a Railway Ferry. Applied Sciences (Switzerland), 2020, 10, 5710.	2.5	33
17	Calculation of Loads on Carrying Structures of Articulated Circular-Tube Wagons Equipped with New Draft Gear Concepts. Applied Sciences (Switzerland), 2020, 10, 7441.	2.5	18
18	Effective Mistuning Identification Method of Integrated Bladed Discs of Marine Engine Turbochargers. Journal of Marine Science and Engineering, 2020, 8, 379.	2.6	31

#	ARTICLE	IF	CITATIONS
19	RESEARCH OF STABILITY OF CONTAINERS IN THE COMBINED TRAINS DURING TRANSPORTATION BY RAILROAD FERRY. MM Science Journal, 2020, 2020, 3728-3733.	0.4	30
20	The research of the influence of viscous interaction between wagon and container on the dynamic load during transportation by rail ferry. Vibroengineering PROCEDIA, 2020, 31, 62-67.	0.5	0
21	Computational modelling of dynamic loads of a container under viscous interaction with a flat wagon in sea transport. Vibroengineering PROCEDIA, 2020, 31, 68-73.	0.5	0
22	Strength characteristic determination of a flat wagon carrying structure with a lower centre of gravity. Vibroengineering PROCEDIA, 2020, 32, 99-104.	0.5	0
23	Dynamic load of the carrying structure of an articulated wagon with new draft gear concepts. Vibroengineering PROCEDIA, 2020, 33, 84-89.	0.5	0
24	Prototyping a System for Truck Differential Lock Control. Sensors, 2019, 19, 3619.	3.8	10
25	Strength determination of wagon bearing structures made of round pipes at railroad ferry transportation. Vibroengineering PROCEDIA, 2019, 29, 100-105.	0.5	1
26	Dynamic load computational modelling of containers placed on a flat wagon at railroad ferry transportation. Vibroengineering PROCEDIA, 2019, 29, 118-123.	0.5	23
27	Dynamic load effect on the transportation safety of tank containers as part of combined trains on railway ferries. Vibroengineering PROCEDIA, 2019, 29, 124-129.	0.5	25
28	Measurement of the powertrain torque. , 2018, , .		1
29	Transmission error analysis for heavy-duty gearbox. Vibroengineering PROCEDIA, 2018, 18, 113-116.	0.5	4
30	Comparison of torsional vibration dampers in terms of the dissipated power amount. Vibroengineering PROCEDIA, 2018, 18, 68-72.	0.5	1
31	Parameter effecting the experimental determination of modal properties. Vibroengineering PROCEDIA, 2018, 18, 96-100.	0.5	0
32	Supplying system abrasive material with automatic dosing control. Vibroengineering PROCEDIA, 2018, 18, 207-214.	0.5	1
33	Heavy-duty transmission gear shift investigation by virtual prototypes. Vibroengineering PROCEDIA, 2018, 18, 226-230.	0.5	3
34	Testing of the mechatronic robotic system of the differential lock control on a truck. International Journal of Advanced Robotic Systems, 2017, 14, 172988141773689.	2.1	20
35	Optimal design of structure in rheological models: an automotive application to dampers with high viscosity silicone fluids. Journal of Vibroengineering, 2017, 19, 4459-4470.	1.0	30
36	An unconventional rubber torsional vibration damper with two degrees of freedom. Vibroengineering PROCEDIA, 2017, 13, 136-141.	0.5	1

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37	Research to improve traction and dynamic quality of locomotives. Vibroengineering PROCEDIA, 2017, 13, 159-164.	0.5	6
38	Torsional analysis of the engine computational model. Vibroengineering PROCEDIA, 2017, 16, 25-28.	0.5	2
39	Analyses of truck powertrain torque and vibration. Vibroengineering PROCEDIA, 2017, 11, 101-106.	0.5	0
40	Results of the experimental research of dynamic vibration processes of the rail for rolling stocks fault diagnostics. Vibroengineering PROCEDIA, 2017, 13, 165-170.	0.5	0
41	Using spectral analysis for flat wheel detections. Vibroengineering PROCEDIA, 2017, 13, 171-174.	0.5	0
42	Truck vibrations caused by rotating shaft deflection. Journal of Vibroengineering, 2017, 19, 5361-5373.	1.0	6
43	A torsional vibration damper based on a serial viscoelastic coupling of its seismic mass. Vibroengineering PROCEDIA, 2017, 16, 56-60.	0.5	0