

# Pavel KuÄera

## List of Publications by Year in descending order

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43  
papers

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citations

687363

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794594

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44  
all docs

44  
docs citations

44  
times ranked

121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Load Modelling within Combined Transport Trains during Transportation on a Railway Ferry. Applied Sciences (Switzerland), 2020, 10, 5710.	2.5	33
2	Effective Mistuning Identification Method of Integrated Bladed Discs of Marine Engine Turbochargers. Journal of Marine Science and Engineering, 2020, 8, 379.	2.6	31
3	RESEARCH OF STABILITY OF CONTAINERS IN THE COMBINED TRAINS DURING TRANSPORTATION BY RAILROAD FERRY. MM Science Journal, 2020, 2020, 3728-3733.	0.4	30
4	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
5	Stress-Strain Behaviour of Reparable Composite Panel with Step-Variable Thickness. Polymers, 2021, 13, 3830.	4.5	27
6	Self-Heating Mould for Composite Manufacturing. Polymers, 2021, 13, 3074.	4.5	26
7	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
8	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
9	Acoustic Method for Estimation of Marine Low-Speed Engine Turbocharger Parameters. Journal of Marine Science and Engineering, 2021, 9, 321.	2.6	24
10	Dynamic load computational modelling of containers placed on a flat wagon at railroad ferry transportation. Vibroengineering PROCEDIA, 2019, 29, 118-123.	0.5	23
11	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
12	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
13	Effects of the Temperature-Time Regime of Curing of Composite Patch on Repair Process Efficiency. Polymers, 2021, 13, 4342.	4.5	17
14	Prototyping a System for Truck Differential Lock Control. Sensors, 2019, 19, 3619.	3.8	10
15	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
16	Research to improve traction and dynamic quality of locomotives. Vibroengineering PROCEDIA, 2017, 13, 159-164.	0.5	6
17	Truck vibrations caused by rotating shaft deflection. Journal of Vibroengineering, 2017, 19, 5361-5373.	1.0	6
18	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

#	ARTICLE	IF	CITATIONS
19	Acoustic Identification of Turbocharger Impeller Mistuning – A New Tool for Low Emission Engine Development. Applied Sciences (Switzerland), 2020, 10, 6394.	2.5	4
20	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
21	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
22	Transmission error analysis for heavy-duty gearbox. Vibroengineering PROCEEDIA, 2018, 18, 113-116.	0.5	4
23	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
24	Heavy-duty transmission gear shift investigation by virtual prototypes. Vibroengineering PROCEEDIA, 2018, 18, 226-230.	0.5	3
25	Torsional analysis of the engine computational model. Vibroengineering PROCEEDIA, 2017, 16, 25-28.	0.5	2
26	Influence of Geometric Parameters of Conical Acrylic Portholes on Their Stress – Strain Behaviour. Polymers, 2022, 14, 1041.	4.5	2
27	An unconventional rubber torsional vibration damper with two degrees of freedom. Vibroengineering PROCEEDIA, 2017, 13, 136-141.	0.5	1
28	Strength determination of wagon bearing structures made of round pipes at railroad ferry transportation. Vibroengineering PROCEEDIA, 2019, 29, 100-105.	0.5	1
29	Measurement of the powertrain torque. , 2018, , .		1
30	Comparison of torsional vibration dampers in terms of the dissipated power amount. Vibroengineering PROCEEDIA, 2018, 18, 68-72.	0.5	1
31	Supplying system abrasive material with automatic dosing control. Vibroengineering PROCEEDIA, 2018, 18, 207-214.	0.5	1
32	Effect of Heating Conditions during Moulding on Residual Stress – Strain Behaviour of a Composite Panel. Polymers, 2022, 14, 1660.	4.5	1
33	Research and Development of Self-Contained Water Injection Systems. International Journal of Environmental Research and Public Health, 2021, 18, 5392.	2.6	0
34	Analyses of truck powertrain torque and vibration. Vibroengineering PROCEEDIA, 2017, 11, 101-106.	0.5	0
35	Results of the experimental research of dynamic vibration processes of the rail for rolling stocks fault diagnostics. Vibroengineering PROCEEDIA, 2017, 13, 165-170.	0.5	0
36	Using spectral analysis for flat wheel detections. Vibroengineering PROCEEDIA, 2017, 13, 171-174.	0.5	0

#	ARTICLE	IF	CITATIONS
37	A torsional vibration damper based on a serial viscoelastic coupling of its seismic mass. Vibroengineering PROCEDIA, 2017, 16, 56-60.	0.5	0
38	Parameter effecting the experimental determination of modal properties. Vibroengineering PROCEDIA, 2018, 18, 96-100.	0.5	0
39	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
40	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
41	Strength characteristic determination of a flat wagon carrying structure with a lower centre of gravity. Vibroengineering PROCEDIA, 2020, 32, 99-104.	0.5	0
42	Dynamic load of the carrying structure of an articulated wagon with new draft gear concepts. Vibroengineering PROCEDIA, 2020, 33, 84-89.	0.5	0
43	Determination of the Composite Panel Moulding Pressure Value. Polymers, 2022, 14, 2392.	4.5	0