

Vieroslav Molnar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9183725/publications.pdf>

Version: 2024-02-01

98
papers

1,439
citations

331670

21
h-index

414414

32
g-index

99
all docs

99
docs citations

99
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis gases produced from individual and mixed PE, PP, PS, PVC, and PET—Part I: Production and physical properties. <i>Fuel</i> , 2018, 221, 346-360.	6.4	106
2	Failure analysis of hoisting steel wire rope. <i>Engineering Failure Analysis</i> , 2014, 45, 96-105.	4.0	74
3	Failure analysis of textile rubber conveyor belt damaged by dynamic wear. <i>Engineering Failure Analysis</i> , 2013, 28, 103-114.	4.0	58
4	Finite element analysis of spiral strands with different shapes subjected to axial loads. <i>Advances in Engineering Software</i> , 2015, 83, 45-58.	3.8	55
5	Failure analysis of belt conveyor damage caused by the falling material. Part I: Experimental measurements and regression models. <i>Engineering Failure Analysis</i> , 2014, 36, 30-38.	4.0	54
6	Degradation and chemical change of longlife oils following intensive use in automobile engines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 50, 34-42.	5.0	49
7	Computer modelling and finite element analysis of spiral triangular strands. <i>Advances in Engineering Software</i> , 2014, 73, 11-21.	3.8	48
8	Pyrolysis gases produced from individual and mixed PE, PP, PS, PVC, and PET—Part II: Fuel characteristics. <i>Fuel</i> , 2018, 221, 361-373.	6.4	44
9	Failure analysis of driveshaft of truck body caused by vibrations. <i>Engineering Failure Analysis</i> , 2017, 79, 208-215.	4.0	33
10	The Application of Simulation Model of a Milk Run to Identify the Occurrence of Failures. <i>International Journal of Simulation Modelling</i> , 2018, 17, 444-457.	1.3	32
11	Failure analysis of belt conveyor damage caused by the falling material. Part II: Application of computer metrotomography. <i>Engineering Failure Analysis</i> , 2013, 34, 431-442.	4.0	30
12	Analysis of asymmetrical effect of tension forces in conveyor belt on the idler roll contact forces in the idler housing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 52, 22-32.	5.0	30
13	Proposal of digital twin for testing and measuring of transport belts for pipe conveyors within the concept Industry 4.0. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 174, 108978.	5.0	28
14	Statistical approach for evaluation of pipe conveyor—s belt contact forces on guide idlers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 3127-3135.	5.0	27
15	Failure analysis of irreversible changes in the construction of the damaged rubber hoses. <i>Engineering Failure Analysis</i> , 2015, 58, 31-43.	4.0	27
16	A regression model for prediction of pipe conveyor belt contact forces on idler rolls. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 3910-3917.	5.0	26
17	Failure analysis of irreversible changes in the construction of rubber—textile conveyor belt damaged by sharp-edge material impact. <i>Engineering Failure Analysis</i> , 2014, 39, 135-148.	4.0	25
18	Possibilities of failure analysis for steel cord conveyor belts using knowledge obtained from non-destructive testing of steel ropes. <i>Engineering Failure Analysis</i> , 2016, 67, 33-45.	4.0	25

#	ARTICLE	IF	CITATIONS
19	Mathematical models for indirect measurement of contact forces in hexagonal idler housing of pipe conveyor. Measurement: Journal of the International Measurement Confederation, 2014, 47, 794-803.	5.0	24
20	The influence of corrosion on the life of steel ropes and prediction of their decommissioning. Engineering Failure Analysis, 2017, 74, 119-132.	4.0	24
21	Analysis of crane track degradation due to operation. Engineering Failure Analysis, 2016, 59, 384-395.	4.0	23
22	Proposal of the methodology for noise sources identification and analysis of continuous transport systems using an acoustic camera. Engineering Failure Analysis, 2018, 83, 30-46.	4.0	23
23	Simulation of Interaction of a Pipe Conveyor Belt with Moulding Rolls. Procedia Engineering, 2012, 48, 129-134.	1.2	22
24	Removal of systematic failure of belt conveyor drive by reducing vibrations. Engineering Failure Analysis, 2019, 99, 192-202.	4.0	22
25	Optimization of Production Processes Using the Yamazumi Method. Advances in Science and Technology Research Journal, 2017, 11, 175-182.	0.8	19
26	Analysis of pipe conveyor belt damaged by thermal wear. Engineering Failure Analysis, 2014, 45, 41-48.	4.0	18
27	Using logistic regression in tracing the significance of rubber-textile conveyor belt damage. Wear, 2014, 318, 145-152.	3.1	18
28	Failure analysis of condensing units for refrigerators with refrigerant R134a, R404A. International Journal of Refrigeration, 2019, 100, 208-219.	3.4	18
29	Analysis of influence of conveyor belt overhang and cranking on pipe conveyor operational characteristics. Measurement: Journal of the International Measurement Confederation, 2015, 63, 168-175.	5.0	17
30	Monitoring of dependences and ratios of normal contact forces on hexagonal idler housings of the pipe conveyor. Measurement: Journal of the International Measurement Confederation, 2015, 64, 168-176.	5.0	17
31	Failure analysis of increased rail wear of 200tons foundry crane track. Engineering Failure Analysis, 2016, 67, 1-14.	4.0	17
32	Failure analysis of a railway brake disc with the use of casting process simulation. Engineering Failure Analysis, 2019, 95, 226-238.	4.0	17
33	Extension of inner structures of textile rubber conveyor belt - Failure analysis. Engineering Failure Analysis, 2016, 70, 22-30.	4.0	16
34	Influence of tension force asymmetry on distribution of contact forces among the conveyor belt and idler rolls in pipe conveyor during transport of particulate solids. Measurement: Journal of the International Measurement Confederation, 2015, 63, 120-127.	5.0	15
35	Optimization of noisiness of mechanical system by using a pneumatic tuner during a failure of piston machine. Engineering Failure Analysis, 2017, 79, 845-851.	4.0	15
36	Influence of Steel Scrap in the Charge on the Properties of Gray Cast Iron. ISIJ International, 2017, 57, 374-379.	1.4	15

#	ARTICLE	IF	CITATIONS
37	Failure analysis concerning causes of wear for bridge crane rails and wheels. Engineering Failure Analysis, 2020, 110, 104441.	4.0	15
38	Design of Geometrical Parameters and Kinematical Characteristics of a Non-circular Gear Transmission for Given Parameters. Applied Sciences (Switzerland), 2021, 11, 1000.	2.5	15
39	Online monitoring of a pipe conveyor. Part I: Measurement and analysis of selected operational parameters. Measurement: Journal of the International Measurement Confederation, 2016, 94, 364-371.	5.0	14
40	Failure analysis of conveyor belt samples under tensile load. Journal of Industrial Textiles, 2019, 48, 1364-1383.	2.4	14
41	Using a Software Tool in Forecasting: a Case Study of Sales Forecasting Taking into Account Data Uncertainty. Open Engineering, 2016, 6, .	1.6	13
42	Influence of tension and release in piped conveyor belt on change of normal contact forces in hexagonal idler housing for pipe conveyor loaded with material. Measurement: Journal of the International Measurement Confederation, 2016, 84, 21-31.	5.0	13
43	Human factor in business process management: modeling competencies of BPM roles. Business Process Management Journal, 2021, 27, 275-305.	4.2	13
44	Failure analysis of cyclic damage to a railway rail – A case study. Engineering Failure Analysis, 2020, 116, 104732.	4.0	12
45	Influence of selected characteristics on failures of the conveyor belt cover layer material. Engineering Failure Analysis, 2018, 94, 145-156.	4.0	11
46	Research about influence of the tension forces, asymmetrical tensioning and filling rate of pipe conveyor belt filled with the material on the contact forces of idler rolls in hexagonal idler housing. Measurement: Journal of the International Measurement Confederation, 2020, 156, 107598.	5.0	11
47	The Use of Lean Manufacturing Techniques – SMED Analysis to Optimization of the Production Process. Advances in Science and Technology Research Journal, 2017, 11, 187-195.	0.8	11
48	Online monitoring of pipe conveyors part II: Evaluation of selected operational parameters for the design of expert system. Measurement: Journal of the International Measurement Confederation, 2017, 104, 1-11.	5.0	10
49	Energy calculation model of an outgoing conveyor with application of a transfer chute with the damping plate. Mechanical Sciences, 2016, 7, 167-177.	1.0	10
50	Failure analysis of the foundry crane to increase its working parameters. Engineering Failure Analysis, 2018, 88, 25-34.	4.0	8
51	Analysis of defects in carcass of rubber–textile conveyor belts using metrotomography. Journal of Industrial Textiles, 2018, 47, 1812-1829.	2.4	8
52	Specific principles of work area stiffness measurement applied to a modern three-axis milling machine. International Journal of Advanced Manufacturing Technology, 2019, 102, 2541-2554.	3.0	8
53	Utilization of Geodetic Methods Results in Small Open-Pit Mine Conditions: A Case Study from Slovakia. Minerals (Basel, Switzerland), 2020, 10, 489.	2.0	8
54	DATA MINING WORKSPACE AS AN OPTIMIZATION PREDICTION TECHNIQUE FOR SOLVING TRANSPORT PROBLEMS. Transport Problems, 2017, 11, 21-31.	0.6	8

#	ARTICLE	IF	CITATIONS
55	Restoration of Worn Movable Bridge Props with Use of Bronze Claddings. <i>Materials</i> , 2018, 11, 459.	2.9	7
56	Research in placement of measuring sensors on hexagonal idler housing with regard to requirements of pipe conveyor failure analysis. <i>Engineering Failure Analysis</i> , 2020, 116, 104703.	4.0	7
57	Measurement of Amount for Steel Abrasive Material Transported by Special Scraper Conveyor. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1852.	2.5	7
58	Use of mathematical models and computer software for analysis of traffic noise. <i>Open Engineering</i> , 2020, 10, 129-139.	1.6	7
59	Dispatching policy evaluation for transport of ready mixed concrete. <i>Open Engineering</i> , 2020, 10, 120-128.	1.6	7
60	Application of the Tecnomatix Plant Simulation Program to Modelling the Handling of Ocean Containers using the AGV System. <i>Nase More</i> , 2018, 65, 230-236.	0.5	6
61	Possibility of a Solution of the Sustainability of Transport and Mobility with the Application of Discrete Computer Simulation – A Case Study. <i>Sustainability</i> , 2021, 13, 9816.	3.2	6
62	The Simulation Model of Experimental Equipment for the Research of Pipe Conveyor Belts Using ABAQUS Software. <i>Applied Mechanics and Materials</i> , 0, 611, 183-187.	0.2	5
63	Failure analysis of irreversible changes in the construction of car tyres. <i>Engineering Failure Analysis</i> , 2019, 104, 399-408.	4.0	5
64	Prediction of contact forces on idler rolls of a pipe conveyor idler housing for the needs of its online monitoring. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 139, 177-184.	5.0	5
65	Static testing evaluation of pipe conveyor belt for different tensioning forces. <i>Open Engineering</i> , 2019, 9, 580-585.	1.6	5
66	Determination of Calculation for the Shape of Blades Trace in the Concrete Mixer Truck. <i>Procedia Technology</i> , 2015, 19, 395-401.	1.1	4
67	The Effect of the Carbon Fiber Content on the Flexural Strength of Polymer Concrete Testing Samples and the Comparison of Polymer Concrete and U-Shaped Steel Profile Damping. <i>Materials</i> , 2019, 12, 1917.	2.9	4
68	The Use of a Simulation Model for High-Runner Strategy Implementation in Warehouse Logistics. <i>Sustainability</i> , 2020, 12, 9818.	3.2	4
69	DESIGN OF A CALCULATION FEM MODEL OF THE TEST STATIC STAND OF PIPE CONVEYOR FOR ANALYSIS OF CONTACT FORCES. <i>Advances in Science and Technology Research Journal</i> , 2017, 11, 220-225.	0.8	4
70	The use of industrial metrotomography in the field of maintenance and reliability of rubber-textile conveyor belts in closed continuous transport systems. <i>Eksploatacja I Niezawodnosc</i> , 2016, 18, 539-543.	2.0	4
71	Methodology of measurement of steel ropes by infrared technology. <i>Engineering Failure Analysis</i> , 2022, 133, 105978.	4.0	4
72	Possibilities of Experiments and of Using Experimental Results Obtained from the Test Equipment for Measuring Properties of Conveyor Belts Pipe Conveyor. <i>Applied Mechanics and Materials</i> , 2014, 683, 165-170.	0.2	3

#	ARTICLE	IF	CITATIONS
73	Regression Model Design for the Prediction of Pipe Conveyor Belt Contact Forces on Idler Rollers by Experimental Tests. Applied Mechanics and Materials, 2014, 611, 265-272.	0.2	3
74	Utilisation of measurements to predict the relationship between contact forces on the pipe conveyor idler rollers and the tension force of the conveyor belt. Measurement: Journal of the International Measurement Confederation, 2019, 136, 735-744.	5.0	3
75	Analysis of a pipe conveyor's idler housing failure due to a missing roller in terms of contact forces. Engineering Failure Analysis, 2021, 127, 105527.	4.0	3
76	Verifying the Prediction Result Reliability Using $k\text{-}\mu$, Eddy Dissipation, and Discrete Transfer Models Applied on Methane Combustion Using a Prototype Low-Pressure Burner. Advances in Science and Technology Research Journal, 2017, 11, 252-259.	0.8	3
77	Selection and Allocation of a Warehouse Linked to Reloading Terminal and Seaport. Nase More, 2018, 65, 169-173.	0.5	3
78	Proposal and verification of a methodology for the measurement of local muscular load via datalogger. Measurement: Journal of the International Measurement Confederation, 2018, 121, 73-82.	5.0	2
79	A case study of gear wheel material and heat treatment effect on gearbox strength calculation. Journal of Mechanical Science and Technology, 2019, 33, 5817-5827.	1.5	2
80	Optimization of Logistics Processes During the Production of Wood Chips. TEM Journal, 2020, , 889-898.	0.7	2
81	Pallet Fixing Lock, Determination of Shear Resistance and Spring Stiffness. Advances in Science and Technology Research Journal, 2020, 14, 190-197.	0.8	2
82	Test Equipment for Analysis of Samples Rubber " Textile Conveyor Belts by Help Industrial Metrotomographs. Applied Mechanics and Materials, 2014, 683, 208-212.	0.2	1
83	Design Modification of Test Device for Analyzing of Conveyor Belt Samples. Applied Mechanics and Materials, 0, 803, 179-184.	0.2	1
84	Assessment of the Production Reducer for Clamping the Drilling Tools. Lecture Notes in Mechanical Engineering, 2019, , 557-566.	0.4	1
85	Research on the Influence of Production Technologies on the Positioning Accuracy of a Robotic Arm for Low-Handling Weights. Applied Sciences (Switzerland), 2021, 11, 6104.	2.5	1
86	Simulations as an Assessment Tool for the Feasibility of Logistics Innovations Motivated by the Emergence of Supply Chain Risk. Advances in Science and Technology Research Journal, 2021, 15, 66-75.	0.8	1
87	Design of production lines and logistic flows in production. Open Engineering, 2021, 11, 853-859.	1.6	1
88	Using Travel Times for Optimization Numbers of Medical Rescue Service Points"Case Study from Slovakia. Sustainability, 2021, 13, 207.	3.2	1
89	Utilization of Integrated Transport System by U.S. Steel Košice Employees. Applied Mechanics and Materials, 2014, 708, 136-140.	0.2	0
90	The Monitoring and Analysis of Textile Conveyor Belt by Industrial Metrotomographs. Applied Mechanics and Materials, 0, 803, 207-214.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Analysis of Workplaces Supply in a Production Company. MATEC Web of Conferences, 2017, 134, 00040.	0.2	0
92	Evaluation of the Longitudinal Roughness of the Thin-Walled Cooler for the Robot Control System Made Using CAM Programming. Lecture Notes in Mechanical Engineering, 2019, , 285-296.	0.4	0
93	REGRESSION MODEL CHANGE OF NORMAL CONTACT FORCES IN HEXAGONAL IDLER HOUSING FOR PIPE CONVEYOR LOADED WITH TRANSPORTED MATERIAL. Advances in Science and Technology Research Journal, 2018, 12, 244-251.	0.8	0
94	Design of clamping structure for material flow monitor of pipe conveyors. Open Engineering, 2019, 9, 586-592.	1.6	0
95	Modelling Noise Exposure by Means of Infrared Technology. Advances in Science and Technology Research Journal, 2019, 13, 230-238.	0.8	0
96	Rescue of persons in traffic accidents on roads. Open Engineering, 2022, 12, 38-50.	1.6	0
97	Assessment of Interchangeability of Fuels Used in the Process of Heat Production and Comparison of Their Selected Characteristics: A Case Study. Energies, 2022, 15, 124.	3.1	0
98	Research into Possibilities of Reducing Noise Emissions in the Sandy Gravel Production Process – Case Study. Applied Sciences (Switzerland), 2022, 12, 4398.	2.5	0