

# Pavol Novák

## List of Publications by Year in descending order

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36  
papers

230  
citations

1163117

8  
h-index

1125743

13  
g-index

37  
all docs

37  
docs citations

37  
times ranked

163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite Element Implementation of Multi-Pass Fillet Weld with Phase Changes. Manufacturing Technology, 2013, 13, 79-85.	1.4	29
2	Effective properties of cement-based porous piezoelectric ceramic composites. Construction and Building Materials, 2018, 190, 1208-1214.	7.2	21
3	Design and Application of Multi-software Platform for Solving of Mechanical Multi-body System Problems. , 2011, , 345-354.		20
4	Finite Element Thermo-mechanical Transient Analysis of Concrete Structure. Procedia Engineering, 2013, 65, 224-229.	1.2	18
5	The investigation of the fatigue failure of passenger carriage draw-hook. Engineering Failure Analysis, 2019, 104, 609-616.	4.0	17
6	Homogenization of the finite-length fibre composite materials by boundary meshless type method. Archive of Applied Mechanics, 2018, 88, 789-804.	2.2	16
7	Determination of Vibration Sources by Using STFT. Procedia Engineering, 2017, 177, 496-501.	1.2	13
8	Numerical Simulation of Thermoelastic Stress Analysis. Manufacturing Technology, 2015, 15, 925-930.	1.4	11
9	High-Pressure Pipelines Repaired by Steel Sleeve and Epoxy Composition. Applied Mechanics and Materials, 0, 486, 181-188.	0.2	8
10	Fatigue limit estimation using IR camera. MATEC Web of Conferences, 2018, 157, 05021.	0.2	8
11	Nondestructive Testing of Metal Parts by Using Infrared Camera. Procedia Engineering, 2017, 177, 562-567.	1.2	7
12	Analysis of bond behaviour in strengthened reinforced concrete beam with carbon fiber reinforced polymer lamella. MATEC Web of Conferences, 2017, 107, 00045.	0.2	7
13	Induction Heating of Inner Rolling Bearing Ring in ANSYS. Manufacturing Technology, 2015, 15, 881-885.	1.4	7
14	Fracture Mechanics Approach for Analysis of Delamination in Composite Plates. Advanced Materials Research, 0, 969, 176-181.	0.3	6
15	Time Average Synchronization in Thermoelastic Stress Analysis. Procedia Engineering, 2016, 136, 204-210.	1.2	6
16	Dynamic and Stress Analysis of a Locking Mechanism in the Ansys Workbench Software Environment. Advances in Science and Technology Research Journal, 2019, 13, 23-28.	0.8	6
17	Finite element simulation of tensile test of composite materials manufactured by 3D printing. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012082.	0.6	5
18	Finite Element Analysis of the Delaminated Composite Plates Reinforced by Unidirectional Fibers. Manufacturing Technology, 2017, 17, 275-280.	1.4	5

#	ARTICLE	IF	CITATIONS
19	Detection of Natural Frequencies Using IR Camera. Procedia Engineering, 2017, 192, 830-833.	1.2	4
20	The contribution to the modal analysis using an infrared camera. MATEC Web of Conferences, 2018, 157, 05003.	0.2	2
21	Determination of the laminate strains using discrete damage mechanics. MATEC Web of Conferences, 2019, 254, 06005.	0.2	2
22	Finite Displacements in Reciprocity Based Multi-Domain BE/FE Formulations. , 2002, , 11-29.		2
23	SIMPLIFIED COMPUTATION METHODOLOGY FOR CONTACT FORCES ON TAPERED ROLLING BEARING WITH FLEXIBLE PARTS. Scientific Journal of Silesian University of Technology Series Transport, 2018, 99, 177-182.	0.4	2
24	Repair of Composite Structure Using Cold Sleeve with Polymer Filling Material. Advanced Materials Research, 2014, 897, 83-86.	0.3	1
25	The Contribution to the Analysis of the Run Up Test. Procedia Engineering, 2016, 136, 181-186.	1.2	1
26	Cause analysis of the train draw hook fatigue failure. Procedia Structural Integrity, 2018, 13, 2164-2169.	0.8	1
27	Design and stress analysis of wheeled compactor construction. MATEC Web of Conferences, 2019, 254, 02012.	0.2	1
28	Dynamic modelling of elastic plates reinforced by strong fibres. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012081.	0.6	1
29	Computational Homogenization of Cement-Based Porous Piezoelectric Composites with Random Structure. Strojnický Casopis, 2019, 69, 77-88.	0.9	1
30	PROCESSING OF RESULTS FROM A THERMAL FEM ANALYSIS USING THE LOCK-IN METHOD AND COMPARISON WITH EXPERIMENT. Scientific Journal of Silesian University of Technology Series Transport, 2019, 104, 159-168.	0.4	1
31	Analysis of Sealing Properties on a Bolted Joint Based on Probability. Applied Mechanics and Materials, 0, 684, 279-285.	0.2	0
32	Computer simulations of thermal phenomena in surface heating process using the real distribution of Yb:YAG laser power. MATEC Web of Conferences, 2018, 157, 02021.	0.2	0
33	Numerical estimation of heat affected zone in spirally laser quenched shaft. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012111.	0.6	0
34	Influence of imperfections on dynamic properties of oscillating rod. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012068.	0.6	0
35	Application of discrete damage mechanics for determination of the crack density in composite laminates. MATEC Web of Conferences, 2020, 310, 00002.	0.2	0
36	Dynamic simulation of composite layered plates reinforced by unidirectional fibers subjected low velocity impact. MATEC Web of Conferences, 2020, 313, 00025.	0.2	0