Kamila Kotrasová

List of Publications by Year
in descending order

62 papers	326 citations	1040056 9 h-index	1058476 14 g-index
65 all docs	65 docs citations	65 times ranked	105 citing authors

#	Article	IF	Citations
1	Pressure and stress analysis of liquid‐filled cylindrical tank. Mathematical Methods in the Applied Sciences, 2022, 45, 8819-8834.	2.3	3
2	Micro-macro modelling of laminated composite rectangular reservoir. Composite Structures, 2022, 279, 114701.	5.8	5
3	Numerical Investigation of the Dynamic Responses of Fibre-Reinforced Polymer Composite Bridge Beam Subjected to Moving Vehicle. Polymers, 2022, 14, 812.	4.5	4
4	Numerical Modeling of Jet at the Bottom of Tank at Moderate Reynolds Number Using Compact Hermitian Finite Differences Method. Fluids, 2021, 6, 63.	1.7	1
5	Analysis of Slope Stability. Civil and Environmental Engineering, 2021, .	1.2	11
6	Numerical Stability Investigations of the Method of Fundamental Solutions Applied to Wave-Current Interactions Using Generating-Absorbing Boundary Conditions. Symmetry, 2021, 13, 1153.	2.2	11
7	Teaching Quality Management of the Subject Elasticity I. International Journal of Education and Information Technologies, 2021, 15, 256-262.	0.2	0
8	Using Software Applications in Teaching of Slope-Deflection Method in Subject Static Analysis of Constructions. International Journal of Education and Information Technologies, 2021, 15, 263-273.	0.2	0
9	Analytical and Numerical Investigations Applied to Study the Reflections and Transmissions of a Rectangular Breakwater Placed at the Bottom of a Wave Tank. Geosciences (Switzerland), 2021, 11, 430.	2.2	3
10	A Generating - Absorbing Boundary Condition Applied to Wave - Current Interactions Using the Method of Fundamental Solutions. Civil and Environmental Engineering, 2021, 17, 343-352.	1.2	8
11	Study of earthquake Loma Prieta influence on pressure distribution of fluid filling in rectangular endlessly long channel. , 2021, , .		0
12	Two‐step scheme for solution of the seismic response of liquid‐filled composite cylindrical container. Mathematical Methods in the Applied Sciences, 2020, 43, 7664-7676.	2.3	9
13	Experimental and numerical analysis of ceiling panel deflection. MATEC Web of Conferences, 2020, 313, 00040.	0.2	0
14	Analysis of the peak vertical displacement of liquid surface due to sloshing. MATEC Web of Conferences, 2020, 313, 00023.	0.2	0
15	The Numerical Diffusion Effect on the CFD Simulation Accuracy of Velocity and Temperature Field for the Application of Sustainable Architecture Methodology. Sustainability, 2020, 12, 10173.	3.2	15
16	The study of the numerical diffusion in computational calculation. MATEC Web of Conferences, 2020, 310, 00039.	0.2	1
17	Application of discrete damage mechanics for determination of the crack density in composite laminates. MATEC Web of Conferences, 2020, 310, 00002.	0.2	0
18	Numerical Modelling of Fluid Domain Flow in Open Top Channel. Springer Water, 2020, , 287-306.	0.3	5

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19	The Seismic Response of Fluid Filling in Rectangular Reservoir at Nador City Morocco. Civil and Environmental Engineering, 2020, 16, 267-275.	1.2	8
20	Numerical Modelling of the Fluid Flow at the Outlet from Narrowed Space for a Better Water Management. Springer Water, 2020, , 265-286.	0.3	0
21	Increasing of Fluid Effect onÂLiquid Storage Laminated Composite Tank During Seismic Excitation. Mechanisms and Machine Science, 2020, , 771-776.	0.5	0
22	Dynamic fluid-structure-soil interaction applied on concrete rectangular reservoir. AIP Conference Proceedings, 2020, , .	0.4	0
23	Elastic mechanical properties of random oriented short fiber composites. AIP Conference Proceedings, 2020, , .	0.4	2
24	Pressure analysis of rectangular fluid filling. , 2020, , .		1
25	The Dynamic Behavior of Moving Rectangular Liquid Filling. WSEAS Transactions on Fluid Mechanics, 2020, 15, 183-192.	1.0	0
26	Computerized Decision Aid Applied to Meshless Method for the Use Case: Wave-Structure Interactions. , 2020, , .		3
27	Parametric study of seismic response of cylindrical tank. AIP Conference Proceedings, 2019, , .	0.4	6
28	FEM simulation of the endlessly long fluid filled canal due to horizontal ground motion. Vibroengineering PROCEDIA, 2019, 23, 72-75.	0.5	1
29	IMPORTANCE OF SOIL SHEAR STRENGTH PARAMETERS FOR OPTIMAL DESIGN OF THE BUILDING FOUNDATION. Theory and Building Practice, 2019, 2019, 5-11.	0.3	2
30	Multiscale modeling of liquid storage laminated composite cylindrical tank under seismic load. Composites Part B: Engineering, 2018, 146, 189-197.	12.0	22
31	Vibration Analysis of Simply Supported Rectangular Tank Partially Filled with Water. MATEC Web of Conferences, 2018, 210, 04003.	0.2	8
32	Analysis of foundation failure due to changes soil parameters. AIP Conference Proceedings, 2018, , .	0.4	2
33	Simplified seismic analysis of rectangular tank considering fluidâ€"structureâ€"soil interaction. AIP Conference Proceedings, 2018, , .	0.4	2
34	Multiscale modeling of composite cylindrical tank. Data in Brief, 2018, 18, 1777-1783.	1.0	2
35	Study of Hydrodynamic Pressure on Wall of Tank. Procedia Engineering, 2017, 190, 2-6.	1.2	20
36	Laminate circular cylindrical shell. MATEC Web of Conferences, 2017, 125, 04010.	0.2	2

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37	Dynamic analysis of liquid storage tanks. AIP Conference Proceedings, 2017, , .	0.4	13
38	Numerical Experiment of Fluid - Structure - Soil Interaction. Procedia Engineering, 2017, 190, 291-295.	1.2	12
39	Delamination modeling of laminate plate made of sublaminates. AIP Conference Proceedings, 2017, , .	0.4	1
40	The Study of Seismic Response on Accelerated Contained Fluid. Advances in Mathematical Physics, 2017, 2017, 1-9.	0.8	27
41	Delamination of laminate plate under tearing load mode. MATEC Web of Conferences, 2017, 107, 00049.	0.2	4
42	Liquid Storage Cylindrical Tank - Earthquake Analysis. MATEC Web of Conferences, 2017, 125, 04009.	0.2	2
43	Delamination opening and sliding load mode of laminate plate made of sublaminates. Journal of Computational Methods in Sciences and Engineering, 2017, 17, 827-835.	0.2	0
44	Response of endlessly long shipping channel due to earthquake. MATEC Web of Conferences, 2017, 107, 00068.	0.2	2
45	Seismic response of waste storage tanks. MATEC Web of Conferences, 2016, 76, 02004.	0.2	1
46	Composite laminate under influence of temperature and moisture. MATEC Web of Conferences, 2016, 76, 04002.	0.2	1
47	Assessment of slope stability in interaction with the subsoil. , 2016, , .		1
48	Composite Laminates under Hygrothermal Environment. Applied Mechanics and Materials, 2015, 769, 312-315.	0.2	0
49	Influence of Mesh Option "PATTERN" for Fluid Region Using Finite Element Method. Applied Mechanics and Materials, 2015, 769, 241-244.	0.2	1
50	Facesheet-Core Interface Delamination in Sandwich Panels. Key Engineering Materials, 2014, 635, 85-88.	0.4	2
51	A Study on Sloshing Frequencies of Liquid-Tank System. Key Engineering Materials, 2014, 635, 22-25.	0.4	2
52	Hydrodynamic Analysis of Fluid Effect in Rigid Rectangular Tank due to Harmonic Motion. Key Engineering Materials, 2014, 635, 147-150.	0.4	9
53	HYDRODYNAMIC ANALYSIS OF CONTAUNED FLUID EFFECT IN RIGID RECTANGULAR TANK DUE TO EARTHQUACKE EVEN. , 2014, , .		0
54	SEISMIC ANALYSIS OF ELEVATED RESERVOIRS. , 2013, , .		2

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55	HYGROTHERMAL ANALYSIS OF COMPOSITE LAMINATE. , 2013, , .		0
56	Finite Element Analysis of Damage Modeling of Fiber Reinforced Laminate Plate. Applied Mechanics and Materials, 0, 617, 247-250.	0.2	20
57	Using of Computer Fluid Dynamics in Simulation of the Waste Reserviors Processes. Advanced Materials Research, 0, 969, 351-354.	0.3	0
58	Sloshing of Liquid in Rectangular Tank. Advanced Materials Research, 0, 969, 320-323.	0.3	19
59	Dynamic Time-History Response of Cylindrical Tank Considering Fluid - Structure Interaction due to Earthquake. Applied Mechanics and Materials, 0, 617, 66-69.	0.2	20
60	Dynamic Analysis of Liquid Storage Cylindrical Tanks due to Earthquake. Advanced Materials Research, 0, 969, 119-124.	0.3	20
61	The Possible Causes of Damage to Concrete Tanks, Numerical Experiment of Fluid-Structure-Soil Interaction. Key Engineering Materials, 0, 738, 227-237.	0.4	5
62	The study of Fluid Sloshing in a Tankâ€"Fluid System. Boundary Field Problems and Computer Simulation, 0, 54, 17.	0.0	3