

Hashem Mazaheri

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

350
citations

1040056

9
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839539

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docs citations

28
times ranked

184
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhomogeneous and homogeneous swelling behavior of temperature-sensitive poly-(N-isopropylacrylamide) hydrogels. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 324-336.	2.5	47
2	Analytical and numerical analysis of swelling-induced large bending of thermally-activated hydrogel bilayers. <i>International Journal of Solids and Structures</i> , 2016, 99, 1-11.	2.7	41
3	Finite bending of bilayer pH-responsive hydrogels: A novel analytic method and finite element analysis. <i>Composites Part B: Engineering</i> , 2017, 110, 116-123.	12.0	37
4	Inhomogeneous swelling behavior of temperature sensitive PNIPAM hydrogels in micro-valves: analytical and numerical study. <i>Smart Materials and Structures</i> , 2015, 24, 045004.	3.5	36
5	Coupling behavior of the pH/temperature sensitive hydrogels for the inhomogeneous and homogeneous swelling. <i>Smart Materials and Structures</i> , 2016, 25, 085034.	3.5	32
6	Study on pH-sensitive hydrogel micro-valves: A fluid-structure interaction approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1589-1602.	2.5	28
7	Finite bending of a temperature-sensitive hydrogel tri-layer: An analytical and finite element analysis. <i>Composite Structures</i> , 2017, 164, 219-228.	5.8	20
8	Analysis of large amplitude free vibrations of clamped tapered beams on a nonlinear elastic foundation. <i>Applied Mathematical Modelling</i> , 2014, 38, 1176-1186.	4.2	17
9	Behavior of a smart one-way micro-valve considering fluid-structure interaction. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 3960-3971.	2.5	16
10	Closed-form elasticity solution for smart curved sandwich panels with soft core. <i>Applied Mathematical Modelling</i> , 2019, 76, 50-70.	4.2	9
11	Study of Fluid-Structure Interaction in a Functionally Graded pH-Sensitive Hydrogel Micro-Valve. <i>International Journal of Applied Mechanics</i> , 2020, 12, 2050057.	2.2	9
12	Study on the behavior of a temperature-sensitive hydrogel micro-channel via FSI and non-FSI approaches. <i>Acta Mechanica</i> , 2020, 231, 2799-2813.	2.1	8
13	Fluid-structure interaction simulations for a temperature-sensitive functionally graded hydrogel-based micro-channel. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 661-677.	2.5	8
14	A model for inhomogeneous large deformation of photo-thermal sensitive hydrogels. <i>Acta Mechanica</i> , 2021, 232, 2955-2972.	2.1	8
15	Multi-objective optimization of tensile properties of the corrugated composite sheet. <i>Journal of Composite Materials</i> , 2022, 56, 811-821.	2.4	7
16	Nonlinear oscillation analysis of a pendulum wrapping on a cylinder. <i>Scientia Iranica</i> , 2012, 19, 335-340.	0.4	5
17	Flexural response of fiber-metal laminate face-sheet/corrugated core sandwich beams. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	1.6	5
18	Kinetics of Swelling of Cylindrical Temperature-Responsive Hydrogel: A Semi-Analytical Study. <i>International Journal of Applied Mechanics</i> , 2020, 12, 2050090.	2.2	4

#	ARTICLE	IF	CITATIONS
19	Size-dependent electro-static analysis of smart micro-sandwich panels with functionally graded core. Acta Mechanica, 2021, 232, 111-133.	2.1	4
20	Bending analysis of five-layer curved functionally graded sandwich panel in magnetic field: closed-form solution. Applied Mathematics and Mechanics (English Edition), 2021, 42, 251-274.	3.6	3
21	Study of swelling behavior of temperature sensitive hydrogels considering inextensibility of network. Scientia Iranica, 2018, .	0.4	2
22	Nonlinear Vibration Analysis of a Micro Beam Exposed to an External Flow. , 2011, , .		1
23	A linear poroelastic analysis of equilibrium asymptotic fields around stationary sharp V-notches in polymer gels. Theoretical and Applied Fracture Mechanics, 2021, 112, 102922.	4.7	1
24	FSI and non-FSI studies on a functionally graded temperature-responsive hydrogel bilayer in a micro-channel. Smart Materials and Structures, 0, , .	3.5	1
25	Analytic and Finite Element Studies on Deformation of Bilayers with a Functionally Graded PH-Responsive Hydrogel Layer. International Journal of Applied Mechanics, 2022, 14, .	2.2	1
26	Analytical Approach to Vibration Analysis of a Pendulum Wrapping on a Cylinder. , 2011, , .		0
27	Experimental and numerical study on the effect of aluminum foil wrapping on penetration resistance of ceramic tiles. Scientia Iranica, 2017, 24, 1126-1135.	0.4	0
28	Bending behavior and geometrical optimization of five-layered corrugated sandwich panels with equal in-plane principal stiffness. Journal of Composite Materials, 0, , 002199832210822.	2.4	0