

Vikas Srivastava

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

972
citations

1040056

9
h-index

996975

15
g-index

18
all docs

18
docs citations

18
times ranked

707
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermo-mechanically coupled theory for large deformations of amorphous polymers. Part I: Formulation. International Journal of Plasticity, 2009, 25, 1474-1494.	8.8	238
2	A thermo-mechanically-coupled large-deformation theory for amorphous polymers in a temperature range which spans their glass transition. International Journal of Plasticity, 2010, 26, 1138-1182.	8.8	200
3	A thermo-mechanically coupled theory for large deformations of amorphous polymers. Part II: Applications. International Journal of Plasticity, 2009, 25, 1495-1539.	8.8	193
4	Thermally actuated shape-memory polymers: Experiments, theory, and numerical simulations. Journal of the Mechanics and Physics of Solids, 2010, 58, 1100-1124.	4.8	160
5	Metallic glasses: viable tool materials for the production of surface microstructures in amorphous polymers by micro-hot-embossing. Journal of Micromechanics and Microengineering, 2009, 19, 115030.	2.6	59
6	A model and predictions for COVID-19 considering population behavior and vaccination. Scientific Reports, 2021, 11, 12051.	3.3	52
7	A thermo-mechanically coupled finite strain model for phase-transitioning austenitic steels in ambient to cryogenic temperature range. Journal of the Mechanics and Physics of Solids, 2019, 133, 103729.	4.8	11
8	Diseased Filum Terminale as a Cause of Tethered Cord Syndrome in Ehlers-Danlos Syndrome: Histopathology, Biomechanics, Clinical Presentation, and Outcome of Filum Excision. World Neurosurgery, 2022, 162, e492-e502.	1.3	11
9	Effect of polymer and ion concentration on mechanical and drug release behavior of gellan hydrogels using factorial design. Journal of Polymer Science, 2020, 58, 1365-1379.	3.8	10
10	Simulation trained CNN for accurate embedded crack length, location, and orientation prediction from ultrasound measurements. International Journal of Solids and Structures, 2022, 242, 111521.	2.7	10
11	A continuum model and simulations for large deformation of anisotropic fiber-matrix composites for cardiac tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104627.	3.1	8
12	Ultrasound classification of interacting flaws using finite element simulations and convolutional neural network. Engineering With Computers, 2022, 38, 4653-4662.	6.1	7
13	A material point method for simulation of viscoelastic flows. Computational Particle Mechanics, 2019, 6, 311-325.	3.0	6
14	A higher-order morphoelastic beam model for tubes and filaments subjected to biological growth. International Journal of Solids and Structures, 2021, 233, 111235.	2.7	4
15	A Technique for High-Speed Microscopic Imaging of Dynamic Failure Events and Its Application to Shear Band Initiation in Polycarbonate. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	2.2	3
16	A Thermo-Mechanically Coupled Large-Deformation Theory for Amorphous Polymers Across the Glass Transition Temperature. , 2010, , .		0
17	A Large-Deformation Theory for Thermally-Actuated Shape-Memory Polymers and its Application. , 2010, , .		0
18	Shape Memory Nitinol Based Minimally Invasive Spinal Cord Stimulation Device Concept for Improved Pain Management.. Pain Physician, 2022, 25, E375-E383.	0.4	0