

Shuai Xu

List of Publications by Year in descending order

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Version: 2024-02-01

11
papers

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citations

933264

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1281743

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g-index

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all docs

11
docs citations

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319
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances of hydrogel network models for studies on mechanical behaviors. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 367-386.	1.5	56
2	Effect of aspect ratio on the mechanical properties of metallic glasses. <i>Scripta Materialia</i> , 2014, 93, 36-39.	2.6	47
3	Thermal Conductivity of Polyacrylamide Hydrogels at the Nanoscale. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36352-36360.	4.0	46
4	A mesoscopic network mechanics method to reproduce the large deformation and fracture process of cross-linked elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 156, 104599.	2.3	46
5	Molecular dynamics simulations of nano-indentation and wear of the $\hat{\text{T}}\text{i-Al}$ alloy. <i>Computational Materials Science</i> , 2015, 110, 247-253.	1.4	38
6	A nonequilibrium thermodynamics approach to the transient properties of hydrogels. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 127, 94-110.	2.3	38
7	Coupled theory for transient responses of conductive hydrogels with multi-stimuli. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 143, 104055.	2.3	37
8	Theoretical and Numerical Analysis of Mechanical Behaviors of a Metamaterial-Based Shape Memory Polymer Stent. <i>Polymers</i> , 2020, 12, 1784.	2.0	31
9	Atomic Understanding of the Swelling and Phase Transition of Polyacrylamide Hydrogel. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1640002.	1.3	20
10	Study on Large Deformation Behavior of Polyacrylamide Hydrogel Using Dissipative Particle Dynamics. <i>Frontiers in Chemistry</i> , 2020, 8, 115.	1.8	16
11	Energy wave propagation in pristine and bi-crystal graphene. <i>International Journal of Computational Materials Science and Engineering</i> , 2016, 05, 1650021.	0.5	6