

Karl A Kalina

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

278
citations

1478505

6
h-index

1372567

10
g-index

12
all docs

12
docs citations

12
times ranked

153
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale modeling and simulation of magneto-active elastomers based on experimental data. <i>ChemistrySelect</i> , 2023, 8, 1-31.	1.5	4
2	Automated constitutive modeling of isotropic hyperelasticity based on artificial neural networks. <i>Computational Mechanics</i> , 2022, 69, 213-232.	4.0	25
3	A macroscopic model for magneto-active elastomers based on microscopic simulations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000208.	0.2	0
4	Particle Interactions in Magneto-Active Elastomers: Experiments and Simulations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000277.	0.2	0
5	Magneto-Mechanical Coupling in Magneto-Active Elastomers. <i>Materials</i> , 2021, 14, 434.	2.9	16
6	Thermodynamically consistent constitutive modeling of isotropic hyperelasticity based on artificial neural networks. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 21, .	0.2	3
7	A macroscopic model for magnetorheological elastomers based on microscopic simulations. <i>International Journal of Solids and Structures</i> , 2020, 193-194, 200-212.	2.7	33
8	Development of a Macro-Model for Magnetorheological Elastomers based on Microscopic Simulations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019, 19, e201900288.	0.2	2
9	Modeling and Simulation of Hysteresis Effects in Magnetorheological Elastomers. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800319.	0.2	3
10	Reversible magnetomechanical collapse: virtual touching and detachment of rigid inclusions in a soft elastic matrix. <i>Soft Matter</i> , 2018, 14, 6809-6821.	2.7	32
11	A numerical study on magnetostrictive phenomena in magnetorheological elastomers. <i>Computational Materials Science</i> , 2016, 124, 364-374.	3.0	105
12	Microscale modeling and simulation of magnetorheological elastomers at finite strains: A study on the influence of mechanical preloads. <i>International Journal of Solids and Structures</i> , 2016, 102-103, 286-296.	2.7	55