

Huiyu Sun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1677420/publications.pdf>

Version: 2024-02-01

29
papers

480
citations

687363

13
h-index

713466

21
g-index

29
all docs

29
docs citations

29
times ranked

321
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromechanics of braided composites via multivariable FEM. <i>Computers and Structures</i> , 2003, 81, 2021-2027.	4.4	60
2	Thermomechanical constitutive modeling of fiber reinforced shape memory polymer composites based on thermodynamics with internal state variables. <i>Mechanics of Materials</i> , 2019, 130, 9-19.	3.2	48
3	A constitutive model for amorphous shape memory polymers based on thermodynamics with internal state variables. <i>Mechanics of Materials</i> , 2017, 111, 1-14.	3.2	40
4	A thermoviscoelastic model incorporated with uncoupled structural and stress relaxation mechanisms for amorphous shape memory polymers. <i>Mechanics of Materials</i> , 2018, 124, 18-25.	3.2	29
5	4D printed programmable auxetic metamaterials with shape memory effects. <i>Composite Structures</i> , 2022, 279, 114791.	5.8	28
6	A multi-branch thermoviscoelastic model based on fractional derivatives for free recovery behaviors of shape memory polymers. <i>Mechanics of Materials</i> , 2018, 120, 34-42.	3.2	27
7	Modeling the thermomechanical behaviors of short fiber reinforced shape memory polymer composites. <i>International Journal of Mechanical Sciences</i> , 2020, 166, 105212.	6.7	27
8	Prediction on viscoelastic properties of three-dimensionally braided composites by multi-scale model. <i>Journal of Materials Science</i> , 2013, 48, 6499-6508.	3.7	23
9	Thermo-viscoelastic analysis of three-dimensionally braided composites. <i>Composite Structures</i> , 2013, 98, 47-52.	5.8	17
10	A hygro-thermo-mechanical constitutive model for hygrothermally activated shape memory polymers under finite deformations. <i>Mechanics of Materials</i> , 2020, 150, 103594.	3.2	16
11	A hygro-thermo-mechanical constitutive model for shape memory polymers filled with nano-carbon powder. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 286-306.	4.2	16
12	A finite deformation constitutive model for thermally activated amorphous shape memory polymers. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1530-1538.	2.5	15
13	Thermo-mechanical modeling of woven fabric reinforced shape memory polymer composites. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 1042-1052.	2.6	15
14	A phenomenological constitutive model for shape memory polyurethanes. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 517-526.	2.5	13
15	Modeling the strain rate-, hold time-, and temperature-dependent cyclic behaviors of amorphous shape memory polymers. <i>Smart Materials and Structures</i> , 2018, 27, 075050.	3.5	13
16	A unified modeling approach for amorphous shape memory polymers and shape memory polymer based syntactic foam. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1237-1245.	3.2	12
17	Modeling the thermomechanical behaviors of shape memory polymers and their nanocomposites by a network transition theory. <i>Smart Materials and Structures</i> , 2019, 28, 065018.	3.5	12
18	Application of fractional calculus methods to viscoelastic behaviours of solid propellants. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190291.	3.4	12

#	ARTICLE	IF	CITATIONS
19	Modeling the one-way and two-way shape memory effects of semi-crystalline polymers. <i>Smart Materials and Structures</i> , 2021, 30, 095020.	3.5	12
20	Modeling the thermomechanical behaviors of particle reinforced shape memory polymer composites. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	11
21	Modeling the thermoviscoelasticity of transversely isotropic shape memory polymer composites. <i>Smart Materials and Structures</i> , 2020, 29, 025012.	3.5	9
22	Modeling the laminated carbon fiber reinforced shape memory polymer composites by using a refined plate theory. <i>Smart Materials and Structures</i> , 2020, 29, 095005.	3.5	7
23	A 1D thermomechanical network transition constitutive model coupled with multiple structural relaxation for shape memory polymers. <i>Smart Materials and Structures</i> , 2018, 27, 035024.	3.5	6
24	Modeling the shape memory and strength properties of fiber-reinforced shape memory polymer composite laminates. <i>Smart Materials and Structures</i> , 2019, 28, 105011.	3.5	4
25	Modeling the thermomechanical behavior of carbon fiber-reinforced shape memory polymer composites under the finite deformation. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 503-514.	2.5	4
26	A nonlinear strain-rate dependent constitutive model for uncured rubber materials under large deformation. <i>Journal of Mechanics</i> , 2020, 37, 118-125.	1.4	2
27	Electro-thermo-mechanical modeling of shape memory polymers filled with nano-carbon powder. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1731-1742.	2.5	2
28	Dynamic modeling of a 3-D 4-directional braided composite beam with a central rigid body. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3215-3224.	2.6	0
29	A 1D physically based constitutive model for two-way shape memory effects in semicrystalline networks. <i>Mechanics of Advanced Materials and Structures</i> , 0, , 1-15.	2.6	0