

Wenbo Luo

List of Publications by Year in descending order

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papers

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citations

567144

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docs citations

49
times ranked

570
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of time-stress equivalence to nonlinear creep of polycarbonate. <i>Polymer Testing</i> , 2005, 24, 463-467.	2.3	82
2	Frequency- and strain-amplitude-dependent dynamical mechanical properties and hysteresis loss of CB-filled vulcanized natural rubber. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 168-174.	3.6	68
3	Fracture surface analysis on nano-SiO ₂ /epoxy composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 313-315.	2.6	40
4	Long-term creep assessment of viscoelastic polymer by time-temperature-stress superposition. <i>Acta Mechanica Solida Sinica</i> , 2012, 25, 571-578.	1.0	39
5	Nonlinear creep behavior of viscoelastic polycarbonate. <i>Journal of Materials Science</i> , 2006, 41, 531-536.	1.7	36
6	Modeling of the heat build-up of carbon black filled rubber. <i>Polymer Testing</i> , 2018, 69, 116-124.	2.3	32
7	Incubation time to crazing in stressed poly(methyl methacrylate). <i>Polymer Testing</i> , 2007, 26, 413-418.	2.3	28
8	Water-absorptivity and mechanical behaviors of PTFE/PA6 and PTFE/PA66 blends. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s498-s503.	1.7	27
9	Application of Time-Temperature-Stress Superposition Principle to Nonlinear Creep of Poly(methyl Tj ETQq1 1 0.784314 rgBTj/Overlo 0.4 26	0.4	26
10	Effect of Temperature on the Tear Fracture and Fatigue Life of Carbon-Black-Filled Rubber. <i>Polymers</i> , 2019, 11, 768.	2.0	26
11	Fatigue Life Assessment of Filled Rubber by Hysteresis Induced Self-Heating Temperature. <i>Polymers</i> , 2020, 12, 846.	2.0	25
12	Temperature and frequency dependent rheological behaviour of carbon black filled natural rubber. <i>Plastics, Rubber and Composites</i> , 2013, 42, 416-420.	0.9	24
13	Time-dependent craze zone growth at a crack tip in polymer solids. <i>Polymer</i> , 2004, 45, 3519-3525.	1.8	23
14	Changes in tensile and tearing fracture properties of carbon-black filled rubber vulcanizates by thermal aging. <i>Polymers for Advanced Technologies</i> , 2015, 26, 1331-1335.	1.6	16
15	Modelling of nonlinear viscoelastic creep behaviour of hot-mix asphalt. <i>Construction and Building Materials</i> , 2015, 95, 329-336.	3.2	16
16	Fractional differential constitutive model for linear viscoelasticity of asphalt and asphalt mastic. <i>Construction and Building Materials</i> , 2021, 306, 124886.	3.2	15
17	Creep behavior of poly(methyl methacrylate) with growing damage. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 580-582.	2.6	14
18	A method to predict the dynamical behaviors of carbon black filled natural rubber at different temperatures. <i>Polymer Testing</i> , 2019, 79, 106067.	2.3	14

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19	Experimental studies on the temperature fluctuations in deformed thermoplastics with defects. International Journal of Solids and Structures, 2000, 37, 887-897.	1.3	13
20	A Creep Model of Asphalt Mixture Based on Variable Order Fractional Derivative. Applied Sciences (Switzerland), 2020, 10, 3862.	1.3	13
21	Computer simulation of conic-shaped patterns on fracture surfaces of polymers. Journal of Applied Polymer Science, 2003, 89, 1722-1725.	1.3	10
22	Effects of stress and physical ageing on nonlinear creep behavior of poly(methyl methacrylate). Central South University, 2008, 15, 582-588.	0.5	10
23	Time-stress equivalence: Application to nonlinear creep of polypropylene. Central South University, 2007, 14, 310-313.	0.5	9
24	Characteristic Tearing Energy and Fatigue Crack Propagation of Filled Natural Rubber. Polymers, 2021, 13, 3891.	2.0	8
25	Application of Time-Ageing Time and Time-Temperature-Stress Equivalence to Nonlinear Creep of Polymeric Materials. Materials Science Forum, 2008, 575-578, 1151-1156.	0.3	6
26	Application of fractional calculus methods to asymmetric dynamical response of CB-Filled rubber. Polymer Testing, 2017, 61, 416-420.	2.3	6
27	Creep Lifetime Assessment of Pressure-Tight Pe100 Pipes Based on a Slow Fatigue Crack Growth. Strength of Materials, 2018, 50, 781-787.	0.2	5
28	Application of time-temperature-stress equivalence to nonlinear creep in poly(methyl methacrylate). Materials Today Communications, 2019, 21, 100710.	0.9	5
29	Experimental studies on the dynamic viscoelastic properties of basalt fiber-reinforced asphalt mixtures. Science and Engineering of Composite Materials, 2021, 28, 489-498.	0.6	5
30	A Nonlinear Fractional Viscoelastic-Plastic Creep Model of Asphalt Mixture. Polymers, 2021, 13, 1278.	2.0	5
31	Structural Mechanical Characteristics and Instability Law of Roof Key Block Breaking in Gob-Side Roadway. Advances in Civil Engineering, 2020, 2020, 1-12.	0.4	5
32	Strain Rate-Dependent Hyperbolic Constitutive Model for Tensile Behavior of PE100 Pipe Material. Polymers, 2022, 14, 1357.	2.0	5
33	Effect of Stress-Induced Damage Evolution on Long-Term Creep Behavior of Nonlinear Viscoelastic Polymer. Key Engineering Materials, 2006, 324-325, 731-734.	0.4	4
34	Modeling of Nonlinear Viscoelastic Creep of Polycarbonate. E-Polymers, 2007, 7, .	1.3	4
35	Comparison of Two Hyperelastic Models for Carbon Black Filled Rubber. Applied Mechanics and Materials, 2013, 275-277, 28-32.	0.2	4
36	Analysis of dynamic viscoelastic properties of chloroprene rubber considering pre-strain effect. Materials Research Express, 2019, 6, 105324.	0.8	4

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37	Time-Temperature-Stress Equivalence Applied to Accelerated Characterization of Creep Behavior of Viscoelastic Polymer. Key Engineering Materials, 2007, 353-358, 1386-1389.	0.4	3
38	Time-Dependent Mechanical Behaviors of Polyamide 6/Nano-SiO ₂ Composite. Key Engineering Materials, 0, 368-372, 1080-1083.	0.4	2
39	Fatigue Damage Analysis of an Asphalt Mixture Based on Pseudostiffness. Strength of Materials, 2018, 50, 764-771.	0.2	2
40	A Time Dependent Process Zone Model for Slow Crack Growth of Polyethylene Pipe Material. Journal of Physics: Conference Series, 2020, 1634, 012140.	0.3	2
41	An investigation on craze growth at a crack tip in polymers. Polymer Engineering and Science, 2001, 41, 1171-1176.	1.5	1
42	Numerical simulation and experimental study on rheological properties of polypropylene. Central South University, 2007, 14, 151-153.	0.5	1
43	Effects of gamma irradiation and moisture absorption on mechanical properties of PA6/PTFE blends. Central South University, 2008, 15, 560-563.	0.5	1
44	Mechanism of the Modulus Increase of Carbon-Black-Filled Rubber at Small Extension. Advanced Materials Research, 0, 284-286, 1969-1973.	0.3	1
45	Plastic Dissipation and Temperature Field around a Steady Running Crack. Key Engineering Materials, 2006, 324-325, 895-898.	0.4	0
46	Effect of Dimensional Tolerance on Displacements and Stresses of Wedged-Ring Joint Structure. Key Engineering Materials, 2007, 340-341, 1443-1448.	0.4	0
47	Changes in Elastic and Viscoelastic Properties of Poly(<i>i</i> ;gt;Methyl methacrylate<i>i;gt;) by Physical Aging. Advanced Materials Research, 0, 314-316, 914-917.	0.3	0
48	Acoustic emission hysteresis effect of polyvinylchloride under multi-step mechanical loads. Materials Research Innovations, 2015, 19, S8-861-S8-863.	1.0	0
49	OS15-2-3 Effect of gamma irradiation on mechanical properties of PA6/PTFE blends. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS15-2-3--_OS15-2-3-.	0.0	0