

Chengkai Jiang

List of Publications by Year in descending order

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19
papers

389
citations

687363

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794594

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19
docs citations

19
times ranked

317
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of zero-degree peeling behavior of visco-hyperelastic highly stretchable adhesive tape on rigid substrate. <i>Engineering Fracture Mechanics</i> , 2021, 241, 107368.	4.3	11
2	Mechanism of temperature rise due to crazing evolution during PMMA scratch. <i>International Journal of Solids and Structures</i> , 2020, 199, 120-130.	2.7	6
3	Constitutive modeling of the rate- and temperature-dependent macro-yield behavior of amorphous glassy polymers. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105653.	6.7	28
4	Finite deformation constitutive model for macro-yield behavior of amorphous glassy polymers with a molecular entanglement-based internal-state variable. <i>International Journal of Mechanical Sciences</i> , 2019, 161-162, 105064.	6.7	13
5	Rate dependent shear debonding between a highly stretchable elastomer and a rigid substrate: Delayed debonding and pre-stretch effect. <i>Engineering Fracture Mechanics</i> , 2019, 222, 106743.	4.3	18
6	A visco-hyperelastic model of brain tissue incorporating both tension/compression asymmetry and volume compressibility. <i>Acta Mechanica</i> , 2019, 230, 2125-2135.	2.1	13
7	Effect of stress relaxation on accelerated physical aging of hydrogenated nitrile butadiene rubber using time-temperature-strain superposition principle. <i>Advanced Industrial and Engineering Polymer Research</i> , 2019, 2, 61-68.	4.7	10
8	Analytical model of friction behavior during polymer scratching with conical tip. <i>Friction</i> , 2019, 7, 466-478.	6.4	12
9	Experimental and numerical investigations of evaluation criteria and material parameters' coupling effect on polypropylene scratch. <i>Polymer Engineering and Science</i> , 2018, 58, 118-122.	3.1	15
10	Modeling of competition between shear yielding and crazing in amorphous polymers' scratch. <i>International Journal of Solids and Structures</i> , 2017, 124, 215-228.	2.7	38
11	Effect of thermal aging on the scratch behavior of poly (methyl methacrylate). <i>Tribology International</i> , 2016, 101, 110-114.	5.9	26
12	Scratch behavior of the aged hydrogenated nitrile butadiene rubber. <i>Wear</i> , 2016, 352-353, 155-159.	3.1	23
13	In-situ observation of temperature rise during scratch testing of poly (methylmethacrylate) and polycarbonate. <i>Tribology International</i> , 2016, 95, 1-4.	5.9	28
14	Application of time-temperature-stress superposition principle on the accelerated physical aging test of polycarbonate. <i>Polymer Engineering and Science</i> , 2015, 55, 2215-2221.	3.1	15
15	Effect of stick-slip on the scratch performance of polypropylene. <i>Tribology International</i> , 2015, 91, 1-5.	5.9	47
16	Accelerated ratcheting testing of polycarbonate using the time-temperature-stress equivalence method. <i>Polymer Testing</i> , 2015, 44, 8-14.	4.8	17
17	A new form of equivalent stress for combined axial-torsional loading considering the tension-compression asymmetry of polymeric materials. <i>RSC Advances</i> , 2015, 5, 72780-72784.	3.6	10
18	Accelerated aging test of hydrogenated nitrile butadiene rubber using the time-temperature-strain superposition principle. <i>RSC Advances</i> , 2015, 5, 90178-90183.	3.6	22

#	ARTICLE	IF	CITATIONS
19	A test procedure for separating viscous recovery and accumulated unrecoverable deformation of polymer under cyclic loading. <i>Polymer Testing</i> , 2013, 32, 1445-1451.	4.8	37