Chunyu Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 7,710 4.7 6.29 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
68	A Hotspotld Better Half: Non-Equilibrium Intra-Molecular Strain in Shock Physics. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2756-2762	6.4	7
67	Chemistry Under Shock Conditions. Annual Review of Materials Research, 2021, 51, 101-130	12.8	5
66	Shock-induced hotspot formation in amorphous and crystalline 1,3,5,7-tetranitro-1,3,5,7-tetrazoctane (HMX): A molecular dynamics comparative study. <i>Journal of Applied Physics</i> , 2021 , 130, 055902	2.5	1
65	Novel Mode of Noncrystallographic Branching in the Initial Stages of Polymer Fibril Growth. <i>Physical Review Letters</i> , 2020 , 125, 247801	7.4	O
64	Hotspot formation due to shock-induced pore collapse in 1,3,5,7-tetranitro-1,3,5,7-tetrazoctane (HMX): Role of pore shape and shock strength in collapse mechanism and temperature. <i>Journal of Applied Physics</i> , 2020 , 127, 175902	2.5	20
63	Mechanically induced amorphization of small molecule organic crystals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 074005	2	3
62	Prediction of PEKK properties related to crystallization by molecular dynamics simulations with a united-atom model. <i>Polymer</i> , 2019 , 174, 25-32	3.9	14
61	Coarse-grained molecular dynamics modeling of reaction-induced phase separation. <i>Polymer</i> , 2018 , 149, 30-38	3.9	2
60	Cohesive energy density and solubility parameter evolution during the curing of thermoset. <i>Polymer</i> , 2018 , 135, 162-170	3.9	32
59	Crystalline and pseudo-crystalline phases of polyacrylonitrile from molecular dynamics: Implications for carbon fiber precursors. <i>Polymer</i> , 2018 , 155, 13-26	3.9	12
58	Uncertainties in the predictions of thermo-physical properties of thermoplastic polymers via molecular dynamics. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018 , 26, 065007	2	11
57	Effects of water on epoxy cure kinetics and glass transition temperature utilizing molecular dynamics simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1150-1159	2.6	27
56	Molecular modeling of the microstructure evolution during carbon fiber processing. <i>Journal of Chemical Physics</i> , 2017 , 147, 224705	3.9	13
55	Free volume evolution in the process of epoxy curing and its effect on mechanical properties. <i>Polymer</i> , 2016 , 97, 456-464	3.9	22
54	A continuum mechanics model of multi-buckling in graphene Bubstrate systems with randomly distributed debonding. <i>International Journal of Solids and Structures</i> , 2016 , 97-98, 510-519	3.1	8
53	Evolution of network topology of bifunctional epoxy thermosets during cure and its relationship to thermo-mechanical properties: A molecular dynamics study. <i>Polymer</i> , 2015 , 75, 151-160	3.9	24
52	Molecular scale simulations on thermoset polymers: A review. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 103-122	2.6	121

(2008-2014)

51	Material property prediction of thermoset polymers by molecular dynamics simulations. <i>Acta Mechanica</i> , 2014 , 225, 1187-1196	2.1	46
50	Engineering curvature in graphene ribbons using ultrathin polymer films. <i>Nano Letters</i> , 2014 , 14, 7085-	9 11.5	9
49	Prediction of the chemical and thermal shrinkage in a thermoset polymer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 66, 35-43	8.4	40
48	Nanolithography. Large-scale nanoshaping of ultrasmooth 3D crystalline metallic structures. <i>Science</i> , 2014 , 346, 1352-6	33.3	113
47	Molecular dynamics simulations on cyclic deformation of an epoxy thermoset. <i>Polymer</i> , 2013 , 54, 881-8	8 99 .9	24
46	Atomistic simulations on multilayer graphene reinforced epoxy composites. <i>Composites Part A:</i> Applied Science and Manufacturing, 2012 , 43, 1293-1300	8.4	87
45	Molecular dynamics simulations and experimental studies of the thermomechanical response of an epoxy thermoset polymer. <i>Polymer</i> , 2012 , 53, 4222-4230	3.9	104
44	Effect of Thickness on the Thermo-Mechanical Response of Free-Standing Thermoset Nanofilms from Molecular Dynamics. <i>Macromolecules</i> , 2011 , 44, 9448-9454	5.5	29
43	Molecular dynamics predictions of thermal and mechanical properties of thermoset polymer EPON862/DETDA. <i>Polymer</i> , 2011 , 52, 2920-2928	3.9	191
42	Molecular simulations of crosslinking process of thermosetting polymers. <i>Polymer</i> , 2010 , 51, 6058-6070	0 3.9	170
41	Carbon-Nanotube-Based Composites and Damage Sensing 2010 , 159-281		2
40	Electrical conductivities of composites with aligned carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2518-24	1.3	26
39	A hyper-viscoelastic constitutive model for polyurea. <i>Materials Letters</i> , 2009 , 63, 877-880	3.3	75
38	PRECISE DETERMINATION OF BACKBONE STRUCTURE AND CONDUCTIVITY OF 3D PERCOLATION NETWORKS BY THE DIRECT ELECTRIFYING ALGORITHM. <i>International Journal of Modern Physics C</i> , 2009 , 20, 423-433	1.1	11
37	Failure of carbon nanotube/polymer composites and the effect of nanotube waviness. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1580-1586	8.4	39
36	Electrical anisotropy in multiscale nanotube/fiber hybrid composites. <i>Applied Physics Letters</i> , 2009 , 95, 073111	3.4	41
35	Sensors and actuators based on carbon nanotubes and their composites: A review. <i>Composites Science and Technology</i> , 2008 , 68, 1227-1249	8.6	75°

33	Modeling of damage sensing in fiber composites using carbon nanotube networks. <i>Composites Science and Technology</i> , 2008 , 68, 3373-3379	8.6	147
32	Theoretical studies on the charge-induced failure of single-walled carbon nanotubes. <i>Carbon</i> , 2007 , 45, 922-930	10.4	30
31	Continuum percolation of nanocomposites with fillers of arbitrary shapes. <i>Applied Physics Letters</i> , 2007 , 90, 174108	3.4	71
30	A direct electrifying algorithm for backbone identification. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 14679-14686	2	36
29	Dominant role of tunneling resistance in the electrical conductivity of carbon nanotubeBased composites. <i>Applied Physics Letters</i> , 2007 , 91, 223114	3.4	518
28	Synthesis and Characterization of Polystyrene-Poly(arylene ether sulfone)-Polystyrene Triblock Copolymer for Proton Exchange Membrane Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3594-3598	1.3	5
27	Charge-induced strains in single-walled carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 4624-8	3.4	27
26	Modeling of Carbon Nanotubes and Their Composites 2006 , 55-65		5
25	Electrostatic charge distribution on single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 063103	3.4	24
24	Elastic wave velocities in single-walled carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	34
23	Multiscale modeling of compressive behavior of carbon nanotube/polymer composites. <i>Composites Science and Technology</i> , 2006 , 66, 2409-2414	8.6	141
22	Atomistic Modeling of Carbon Nanotube-based Mechanical Sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2006 , 17, 247-254	2.3	29
21	Static and dynamic properties of single-walled boron nitride nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 54-60	1.3	2
20	Quantized molecular structural mechanics modeling for studying the specific heat of single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	23
19	Modeling of heat capacities of multi-walled carbon nanotubes by molecular structural mechanics. <i>Materials Science & Materials Science & Microstructure and Processing</i> , 2005 , 409, 140-144	5.3	25
18	Nanocomposites in context. Composites Science and Technology, 2005, 65, 491-516	8.6	1273
17	Axial and radial thermal expansions of single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	53
16	Modeling of carbon nanotube clamping in tensile tests. <i>Composites Science and Technology</i> , 2005 , 65, 2407-2415	8.6	19

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15	Modeling of elastic buckling of carbon nanotubes by molecular structural mechanics approach. <i>Mechanics of Materials</i> , 2004 , 36, 1047-1055	3.3	138
14	Elastic properties of single-walled carbon nanotubes in transverse directions. <i>Physical Review B</i> , 2004 , 69,	3.3	87
13	Mass detection using carbon nanotube-based nanomechanical resonators. <i>Applied Physics Letters</i> , 2004 , 84, 5246-5248	3.4	177
12	Vibrational behaviors of multiwalled-carbon-nanotube-based nanomechanical resonators. <i>Applied Physics Letters</i> , 2004 , 84, 121-123	3.4	212
11	Multiscale modeling of carbon nanotube reinforced polymer composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 423-30	1.3	99
10	A structural mechanics approach for the analysis of carbon nanotubes. <i>International Journal of Solids and Structures</i> , 2003 , 40, 2487-2499	3.1	1050
9	Single-walled carbon nanotubes as ultrahigh frequency nanomechanical resonators. <i>Physical Review B</i> , 2003 , 68,	3.3	238
8	Dynamic Fracture Analysis for a Penny-Shaped Crack in an FGM Interlayer between Dissimilar Half Spaces. <i>Mathematics and Mechanics of Solids</i> , 2002 , 7, 149-163	2.3	22
7	Antiplane Crack Problem in Functionally Graded Piezoelectric Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002 , 69, 481-488	2.7	146
6	YoffeEype moving crack in a functionally graded piezoelectric material. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002 , 458, 381-399	2.4	59
5	Dynamic stress intensity factor of a cylindrical interface crack with a functionally graded interlayer. <i>Mechanics of Materials</i> , 2001 , 33, 325-333	3.3	45
4	Dynamic behavior of a cylindrical crack in a functionally graded interlayer under torsional loading. <i>International Journal of Solids and Structures</i> , 2001 , 38, 7473-7485	3.1	54
3	Multiple isoparametric finite element method for nonhomogeneous media. <i>Mechanics Research Communications</i> , 2000 , 27, 137-142	2.2	23
2	Stress intensity factors for functionally graded solid cylinders. <i>Engineering Fracture Mechanics</i> , 1999 , 63, 735-749	4.2	26
1	Internally circumferentially cracked cylinders with functionally graded material properties. International Journal of Pressure Vessels and Piping, 1998, 75, 499-507	2.4	10