Olivier Lame

List of Publications by Year
in descending order

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28	1,006	394421 19	501196 28
papers	citations	h-index	g-index

28	28	28	1103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoscale buckling deformation in layered copolymer materials. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 680-685.	7.1	89
2	Plastic Deformation Mechanisms of Semicrystalline and Amorphous Polymers. ACS Macro Letters, 2015, 4, 147-150.	4.8	89
3	A re-examination of the elastic modulus dependence on crystallinity in semi-crystalline polymers. Polymer, 2011, 52, 4899-4909.	3.8	87
4	Amorphous Phase Modulus and Microâ€“Macro Scale Relationship in Polyethylene via in Situ SAXS and WAXS. Macromolecules, 2015, 48, 2149-2160.	4.8	73
5	Mechanisms of Chain Reentanglement during the Sintering of UHMWPE Nascent Powder: Effect of Molecular Weight. Macromolecules, 2015, 48, 5328-5338.	4.8	62
6	Predictors of Cavitation in Glassy Polymers under Tensile Strain: A Coarseâ€Grained Molecular Dynamics Investigation. Macromolecular Theory and Simulations, 2011, 20, 826-836.	1.4	56
7	Small strain behavior of polyethylene: In situ SAXS measurements. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1535-1542.	2.1	54
8	Role of the Intercrystalline Tie Chains Network in the Mechanical Response of Semicrystalline Polymers. Physical Review Letters, 2017, 118, 217802.	7.8	50
9	Polymer chain generation for coarse-grained models using radical-like polymerization. Journal of Chemical Physics, 2008, 128, 234904.	3.0	49
10	In-situ SAXS study of the mesoscale deformation of polyethylene in the pre-yield strain domain: Influence of microstructure and temperature. Polymer, 2014, 55, 1223-1227.	3.8	45
11	Influence of Tie and Loop Molecules on the Mechanical Properties of Lamellar Block Copolymers. Macromolecules, 2012, 45, 8445-8452.	4.8	42
12	Impact of carbon nanotube prelocalization on the ultra-low electrical percolation threshold and on the mechanical behavior of sintered UHMWPE-based nanocomposites. Polymer, 2017, 111, 204-213.	3.8	38
13	Mechanical testing of glassy and rubbery polymers in numerical simulations: Role of boundary conditions in tensile stress experiments. Journal of Chemical Physics, 2009, 131, 014904.	3.0	34
14	Disentangling and Lamellar Thickening of Linear Polymers during Crystallization: Simulation of Bimodal and Unimodal Molecular Weight Distribution Systems. ACS Nano, 2019, 13, 11310-11319.	14.6	33
15	Critical stress and thermal activation of crystal plasticity in polyethylene: Influence of crystal microstructure and chain topology. Polymer, 2017, 118, 192-200.	3.8	30
16	Crystallization of finite-extensible nonlinear elastic Lennard-Jones coarse-grained polymers. Physical Review E, 2017, 96, 052502.	2.1	29
17	Crystallization and Molecular Topology of Linear Semicrystalline Polymers: Simulation of Uni- and Bimodal Molecular Weight Distribution Systems. Macromolecules, 2019, 52, 4196-4208.	4.8	27
18	Nanoscale Buckling in Lamellar Block Copolymers: A Molecular Dynamics Simulation Approach. Macromolecules, 2013, 46, 7853-7864.	4.8	23

#	Article	IF	Citations
19	Micro/macro-stress relationship and local stress distribution in polyethylene spherulites upon uniaxial stretching in the small strain domain. Polymer, 2018, 140, 215-224.	3.8	23
20	Correlation of structure and mechanical response in solid-like polymers. Journal of Physics Condensed Matter, 2015, 27, 194131.	1.8	16
21	1D strain rate-dependent constitutive model of UHMWPE: From crystalline network to fibrillar structure behavior. Mechanics of Materials, 2019, 137, 103129.	3.2	16
22	Characterization of the spherulitic deformation in equatorial region and cavitation in HDPE materials submitted to mixed-mode oligo-cyclic tensile loading. Polymer Testing, 2021, 99, 107208.	4.8	11
23	The correlation between the mixed-mode oligo-cyclic loading induced mechanical and microstructure changes in HDPE. Polymer, 2021, 224, 123706.	3.8	7
24	Influence of nanoceramic interlayer on polymer consolidation during cold-spray coating formation. Journal of Materials Processing Technology, 2019, 273, 116254.	6.3	6
25	Anisotropic deformation and failure behaviors of the necked HDPE materials induced by oligo-cyclic loading. Polymer, 2021, 234, 124232.	3.8	6
26	Influence of annealing treatments on the essential work of fracture of biaxially drawn poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.1	5
27	Three-dimensional constitutive model for the description of high molecular weight semicrystalline polymers over a large range of temperatures and strain rates: Application to Ultra High Molecular Weight PolyEthylene. EPJ Web of Conferences, 2018, 183, 01016.	0.3	3
28	Enhanced ductility in high performance polyamides due to strain-induced phase transitions. Polymer, 2022, 238, 124424.	3.8	3