

Cm Roland

List of Publications by Year in descending order

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41
papers

1,725
citations

331670

21
h-index

361022

35
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41
all docs

41
docs citations

41
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	High strain rate mechanical behavior of polyurea. <i>Polymer</i> , 2007, 48, 574-578.	3.8	265
2	The bulk modulus and Poisson's ratio of "incompressible" materials. <i>Journal of Sound and Vibration</i> , 2008, 312, 572-575.	3.9	215
3	Elastomer"steel laminate armor. <i>Composite Structures</i> , 2010, 92, 1059-1064.	5.8	134
4	Segmental dynamics of polyurea: Effect of stoichiometry. <i>Polymer</i> , 2010, 51, 178-184.	3.8	127
5	Isochronal temperature"pressure superpositioning of the β -relaxation in type-A glass formers. <i>Chemical Physics Letters</i> , 2003, 367, 259-264.	2.6	98
6	Development of cooperativity in the local segmental dynamics of poly(vinylacetate): synergy of thermodynamics and intermolecular coupling. <i>Polymer</i> , 2002, 43, 567-573.	3.8	90
7	Effect of hydrostatic pressure on the viscoelastic response of polyurea. <i>Polymer</i> , 2007, 48, 5747-5752.	3.8	85
8	An equation for the description of volume and temperature dependences of the dynamics of supercooled liquids and polymer melts. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3936-3939.	3.1	81
9	Comparison of glass formation kinetics and segmental relaxation in polymers. <i>Journal of Non-Crystalline Solids</i> , 2000, 275, 153-159.	3.1	75
10	Nanofiller reinforcement of elastomeric polyurea. <i>Polymer</i> , 2012, 53, 1282-1287.	3.8	55
11	Factors influencing the ballistic impact resistance of elastomer-coated metal substrates. <i>Philosophical Magazine</i> , 2013, 93, 468-477.	1.6	48
12	Deformation of polyurea: Where does the energy go?. <i>Polymer</i> , 2016, 105, 227-233.	3.8	44
13	Scaling of the local dynamics and the intermolecular potential. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4895-4899.	3.1	43
14	Density scaling of the dynamics of vitrifying liquids and its relationship to the dynamic crossover. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2581-2587.	3.1	35
15	Commentary on "Strong and fragile liquids - A brief critique". <i>Journal of Non-Crystalline Solids</i> , 1997, 212, 74-76.	3.1	31
16	Elastomer-metal laminate armor. <i>Materials and Design</i> , 2016, 111, 362-368.	7.0	28
17	Effect of entropy on the dynamics of supercooled liquids: new results from high pressure data. <i>Philosophical Magazine</i> , 2007, 87, 459-467.	1.6	26
18	Volume effects on the glass transition dynamics. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4910-4914.	3.1	23

#	ARTICLE	IF	CITATIONS
19	Constraint dynamics and chemical structure. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 868-875.	3.1	21
20	An interpretation of quasielastic neutron scattering and molecular dynamics simulation results on the glass transition. <i>Journal of Non-Crystalline Solids</i> , 1995, 182, 172-179.	3.1	21
21	The viscoelastic behaviour of networks. <i>Computational and Theoretical Polymer Science</i> , 1997, 7, 133-137.	1.1	21
22	Thermoplastic elastomers of alloocimene and isobutylene triblock copolymers. <i>Polymer</i> , 2015, 56, 280-283.	3.8	18
23	Isobaric and isochoric properties of decahydroisoquinoline, an extremely fragile glass-former. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4905-4909.	3.1	17
24	The coupling model approach to the terminal relaxation. <i>Polymer</i> , 1998, 39, 681-687.	3.8	16
25	Heterogeneous networks of polyisoprene/polyvinylethylene. <i>Polymer</i> , 2005, 46, 4160-4165.	3.8	15
26	Intermolecular distance and density scaling of dynamics in molecular liquids. <i>Journal of Chemical Physics</i> , 2019, 150, 204501.	3.0	15
27	Anomalies in the crystallization of cis-1,4-polyisoprene in blends with poly(vinylethylene). <i>Polymer</i> , 1992, 33, 3427-3432.	3.8	14
28	Orientational correlations in polyisoprene/poly(vinylethylene) mixtures. <i>Polymer</i> , 1992, 33, 4522-4526.	3.8	11
29	Reinforcement of Elastomers. , 2016, , .		9
30	Structural Relaxation Dynamics of ortho-Terphenyl. <i>Mechanics of Time-Dependent Materials</i> , 1997, 1, 109-122.	4.4	8
31	Coating/substrate interaction in elastomer-steel bilayer armor. <i>Journal of Composite Materials</i> , 2016, 50, 2853-2859.	2.4	8
32	Lattice expansion during polyisoprene crystallization from blends. <i>Polymer</i> , 1993, 34, 2665-2667.	3.8	5
33	Characterization of radical defects from abrasion and u.v.-photolysis in poly(ethylene terephthalate) fibres. <i>Polymer</i> , 1991, 32, 1027-1030.	3.8	4
34	Structure Characterization in the Science and Technology of Elastomers. , 2005, , 105-155.		4
35	Invariance of the local segmental relaxation dispersion in polycyclohexylmethacrylate/poly-1±-methylstyrene blends. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3996-4000.	3.1	4
36	Response to "Comment on paper "The bulk modulus and Poisson's ratio of "incompressible" materials" TM <i>Journal of Sound and Vibration</i> , 2010, 329, 368-369.	3.9	4

#	ARTICLE	IF	CITATIONS
37	Rheological Behavior and Processing of Unvulcanized Rubber. , 2013, , 285-336.		4
38	Structure Characterization in the Science and Technology of Elastomers. , 2013, , 115-166.		2
39	The effect of thermodynamic variables on polymer chain dynamics. Current Opinion in Solid State and Materials Science, 2007, 11, 41-46.	11.5	1
40	Miscibility in poly(vinylethylene)/poly(isoprene) blends. Journal of Non-Crystalline Solids, 1994, 172-174, 897-901.	3.1	0
41	Dynamic mechanical analysis of elastomers. Handbook of Thermal Analysis and Calorimetry, 1999, 4, 811-828.	1.6	0