

Laurent Chazeau

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96
papers

3,688
citations

32
h-index

59
g-index

99
ext. papers

4,070
ext. citations

4.1
avg. IF

5.04
L-index

#	Paper	IF	Citations
96	Viscoelastic properties of plasticized PVC reinforced with cellulose whiskers. <i>Journal of Applied Polymer Science</i> , 1999 , 71, 1797-1808	2.9	195
95	Carbon nanotube-filled polymer composites. Numerical simulation of electrical conductivity in three-dimensional entangled fibrous networks. <i>Acta Materialia</i> , 2006 , 54, 2923-2931	8.4	194
94	Viscoelastic behavior and electrical properties of flexible nanofiber filled polymer nanocomposites. Influence of processing conditions. <i>Composites Science and Technology</i> , 2007 , 67, 829-839	8.6	162
93	Payne effect in silica-filled styreneButadiene rubber: Influence of surface treatment. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 286-298	2.6	147
92	Modulus recovery kinetics and other insights into the payne effect for filled elastomers. <i>Polymer Composites</i> , 2000 , 21, 202-222	3	142
91	Toughening of bio-ceramics scaffolds by polymer coating. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2679-2685	6	136
90	Mechanical properties of high density polyurethane foams: I. Effect of the density. <i>Composites Science and Technology</i> , 2006 , 66, 2700-2708	8.6	130
89	Miniemulsion polymerization for synthesis of structured clay/polymer nanocomposites: Short review and recent advances. <i>Polymer</i> , 2010 , 51, 6-17	3.9	123
88	A Small-Angle Scattering Study of Cellulose Whiskers in Aqueous Suspensions. <i>Macromolecules</i> , 1999 , 32, 1872-1875	5.5	121
87	Parameters governing strain induced crystallization in filled natural rubber. <i>Polymer</i> , 2007 , 48, 6893-6903	3.9	115
86	Molecular weight between physical entanglements in natural rubber: A critical parameter during strain-induced crystallization. <i>Polymer</i> , 2007 , 48, 1042-1046	3.9	91
85	Strain-Induced Crystallization of Natural Rubber and Cross-Link Densities Heterogeneities. <i>Macromolecules</i> , 2014 , 47, 5815-5824	5.5	84
84	POE-based nanocomposite polymer electrolytes reinforced with cellulose whiskers. <i>Electrochimica Acta</i> , 2005 , 50, 3897-3903	6.7	79
83	Mechanical behaviour above T _g of a plasticised PVC reinforced with cellulose whiskers; a SANS structural study. <i>Polymer</i> , 1999 , 40, 5333-5344	3.9	77
82	Mechanical properties of high density polyurethane foams: II Effect of the filler size. <i>Composites Science and Technology</i> , 2006 , 66, 2709-2718	8.6	75
81	Reinforcement effects of vapour grown carbon nanofibres as fillers in rubbery matrices. <i>Composites Science and Technology</i> , 2005 , 65, 335-343	8.6	75
80	Multiwalled carbon nanotube/polymer nanocomposites: Processing and properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 1186-1197	2.6	72

79	Plasticized PVC reinforced with cellulose whiskers. II. Plastic behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000 , 38, 383-392	2.6	71
78	Plasticized PVC reinforced with cellulose whiskers. I. Linear viscoelastic behavior analyzed through the quasi-point defect theory. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 2151-2164	2.6	68
77	Mechanical properties and cytocompatibility of poly(ϵ -caprolactone)-infiltrated biphasic calcium phosphate scaffolds with bimodal pore distribution. <i>Acta Biomaterialia</i> , 2010 , 6, 4369-79	10.8	66
76	Influence of viscoelasticity on the tribological behaviour of carbon black filled nitrile rubber (NBR) for lip seal application. <i>Wear</i> , 2005 , 259, 684-692	3.5	64
75	Large deformation mechanical behavior of flexible nanofiber filled polymer nanocomposites. <i>Polymer</i> , 2006 , 47, 2802-2812	3.9	56
74	Characteristic time of strain induced crystallization of crosslinked natural rubber. <i>Polymer</i> , 2012 , 53, 2540-2543	3.9	51
73	How I met your elastomers: from network topology to mechanical behaviours of conventional silicone materials. <i>RSC Advances</i> , 2015 , 5, 53713-53725	3.7	49
72	Linear Rheology of Supramolecular Polymers Center-Functionalized with Strong Stickers. <i>Macromolecules</i> , 2015 , 48, 7320-7326	5.5	46
71	Reinforcement of rubbery epoxy by carbon nanofibres. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 352, 344-348	5.3	45
70	Linear rheology of bis-urea functionalized supramolecular poly(butylacrylate)s: Part I Weak stickers. <i>Polymer</i> , 2015 , 69, 233-240	3.9	43
69	Influence of strain rate and temperature on the onset of strain induced crystallization in natural rubber. <i>European Polymer Journal</i> , 2015 , 64, 244-252	5.2	42
68	Soft nanostructured films with an ultra-low volume fraction of percolating hard phase. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1524-9	4.8	40
67	Influence of Silica and its Different Surface Treatments on the Vulcanization Process of Silica Filled SBR. <i>Rubber Chemistry and Technology</i> , 2007 , 80, 183-193	1.7	38
66	Poly(dimethylaminoethyl methacrylate) grafted natural rubber from seeded emulsion polymerization. <i>Polymer</i> , 2005 , 46, 1105-1111	3.9	37
65	Evolution of EPDM networks aged by gamma irradiation Consequences on the mechanical properties. <i>Polymer</i> , 2009 , 50, 4028-4038	3.9	32
64	Morphology of Polymer/Clay Latex Particles Synthesized by Miniemulsion Polymerization: Modeling and Experimental Results. <i>Macromolecular Reaction Engineering</i> , 2010 , 4, 432-444	1.5	30
63	A comparison of the abilities of natural rubber (NR) and synthetic polyisoprene cis-1,4 rubber (IR) to crystallize under strain at high strain rates. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3472-81	3.6	29
62	Conformations of Xanthan in Solution: Analysis by Steric Exclusion Chromatography. <i>International Journal of Polymer Analysis and Characterization</i> , 1995 , 2, 21-29	1.7	29

61	Single-ion conductor nanocomposite organic/inorganic hybrid membranes for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12162-12165	13	27
60	New insights into the cold crystallization of filled natural rubber. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 955-962	2.6	27
59	Grafting of silica during the processing of silica-filled SBR: Comparison between length and content of the silane. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 143-152	2.6	27
58	Nucleation and nonisothermal crystallization kinetics in cross-linked polyethylene/zinc oxide nanocomposites. <i>RSC Advances</i> , 2014 , 4, 31643-31651	3.7	26
57	The relationship between the electrical and mechanical properties of polymer/nanotube nanocomposites and their microstructure. <i>Composites Science and Technology</i> , 2009 , 69, 1533-1539	8.6	25
56	Properties of polymer/clay interphase in nanoparticles synthesized through in-situ polymerization processes. <i>Polymer</i> , 2010 , 51, 4462-4471	3.9	25
55	In situ SALS and volume variation measurements during deformation of treated silica filled SBR. <i>Journal of Materials Science</i> , 2007 , 42, 8130-8138	4.3	25
54	Strain induced crystallization and melting of natural rubber during dynamic cycles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15331-8	3.6	24
53	Mechanical properties of nanostructured films with an ultralow volume fraction of hard phase. <i>Polymer</i> , 2017 , 109, 187-196	3.9	23
52	About thermo-oxidative ageing at moderate temperature of conventionally vulcanized natural rubber. <i>Polymer Degradation and Stability</i> , 2019 , 161, 74-84	4.7	23
51	Influence of fillers on mechanical properties of ATH filled EPDM during ageing by gamma irradiation. <i>Polymer Degradation and Stability</i> , 2010 , 95, 1029-1038	4.7	23
50	Microstructure and Self-Assembly of Supramolecular Polymers Center-Functionalized with Strong Stickers. <i>Macromolecules</i> , 2015 , 48, 8232-8239	5.5	22
49	Temperature dependence of strain-induced crystallization in natural rubber: On the presence of different crystallite populations. <i>Polymer</i> , 2015 , 60, 115-124	3.9	22
48	Modelling of the mechanical behaviour of amorphous glassy polymer based on the Quasi Point Defect theory Part I: Uniaxial validation on polycarbonate. <i>International Journal of Non-Linear Mechanics</i> , 2011 , 46, 496-506	2.8	20
47	Phase field modelling of strain induced crystal growth in an elastic matrix. <i>Journal of Chemical Physics</i> , 2015 , 142, 244905	3.9	19
46	Compared abilities of filled and unfilled natural rubbers to crystallize in a large strain rate domain. <i>Composites Science and Technology</i> , 2015 , 108, 9-15	8.6	19
45	Study of relations between viscoelasticity and tribological behaviour of filled elastomer for lip seal application. <i>Tribology International</i> , 2007 , 40, 405-411	4.9	18
44	Rheological behavior of cellulose/monohydrate of N-methylmorpholine N-oxide solutions. Part 2. Glass transition domain. <i>Polymer</i> , 2002 , 43, 881-889	3.9	17

43	Complex dependence on the elastically active chains density of the strain induced crystallization of vulcanized natural rubbers, from low to high strain rate. <i>Polymer</i> , 2016 , 97, 158-166	3.9	16
42	Layered double hydroxides: Efficient fillers for waterborne nanocomposite films. <i>Applied Clay Science</i> , 2016 , 130, 55-61	5.2	16
41	Influence of PE/PP ratio and ENB content on the degradation kinetics of irradiated EPDM. <i>Polymer Degradation and Stability</i> , 2014 , 110, 175-183	4.7	16
40	Quasi-static load sharing model in the case of Nylon 6/6 cylindrical gears. <i>Materials & Design</i> , 2009 , 30, 4360-4368		16
39	Latex imaging by environmental STEM: application to the study of the surfactant outcome in hybrid alkyd/acrylate systems. <i>Langmuir</i> , 2009 , 25, 10251-8	4	15
38	Influence of silica fillers on the ageing by gamma radiation of EPDM nanocomposites. <i>Composites Science and Technology</i> , 2010 , 70, 1530-1536	8.6	15
37	Crystalline microstructure and mechanical properties of crosslinked EPDM aged under gamma irradiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 97-105	2.6	15
36	Experimental and Numerical Study of a Loaded Cylindrical PA66 Gear. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2013 , 135,	3	14
35	Tailored microstructure and mechanical properties of nanocomposite films made from polyacrylic/LDH hybrid latexes synthesized by RAFT-mediated emulsion polymerization. <i>Polymer Chemistry</i> , 2018 , 9, 2590-2600	4.9	12
34	Influence of the physical state of a polymer blend on thermal ageing. <i>Polymer Degradation and Stability</i> , 2019 , 163, 161-173	4.7	10
33	Influence of the filler type on the rupture behavior of filled elastomers. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 435-445	2.9	10
32	Role of temperature during ageing under gamma irradiation of filled EPDM: consequences on mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1319-1328	2.6	10
31	About the elongation at break of unfilled natural rubber elastomers. <i>Polymer</i> , 2019 , 169, 195-206	3.9	10
30	New ethyl cellulose/acrylic hybrid latexes and coatings via miniemulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2329-2339	2.5	9
29	Dynamic mechanical relaxation of cross-linked styrene-butadiene polymers containing free chains: Possibility of reptation. <i>Polymer</i> , 2014 , 55, 5218-5225	3.9	8
28	Macromolecular Additives to Turn a Thermoplastic Elastomer into a Self-Healing Material. <i>Macromolecules</i> , 2021 , 54, 888-895	5.5	8
27	PEO-Silsesquioxane Flexible Membranes: Organic-Inorganic Solid Electrolytes with Controlled Homogeneity and Nanostructure. <i>ChemistrySelect</i> , 2017 , 2, 2088-2093	1.8	7
26	Effects of multifunctional cross-linkers on rheology and adhesion of soft nanostructured materials. <i>Soft Matter</i> , 2017 , 13, 7979-7990	3.6	7

25	Characterisation of thermal relaxations of polyaniline fibers by dynamic mechanical thermal analysis. <i>Materials Science and Engineering C</i> , 2006 , 26, 227-231	8.3	7
24	Ultimate and toughness properties of irradiated EPDM. <i>European Polymer Journal</i> , 2017 , 97, 178-187	5.2	6
23	Light-Induced Bulk Architecturation of PDMS Membranes. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1151-1157	3.9	6
22	Mechanical spectroscopy: some applications to material science. <i>International Journal of Materials and Product Technology</i> , 2006 , 26, 312	1	6
21	Modeling shear-induced crystallization in startup flow: The case of segmented copolymers. <i>Journal of Rheology</i> , 2019 , 63, 837-850	4.1	4
20	Coarse-Grained Molecular Dynamics Modeling of Segmented Block Copolymers: Impact of the Chain Architecture on Crystallization and Morphology. <i>Macromolecules</i> , 2020 , 53, 3847-3860	5.5	4
19	Modeling of the mechanical behavior of amorphous glassy polymer based on the quasi-point defect theory Part II: 3D formulation and finite element modeling of polycarbonate. <i>International Journal of Non-Linear Mechanics</i> , 2011 , 46, 507-518	2.8	4
18	On the relaxations in poly(butadiene) and poly(styrene-butadiene) rubbers. <i>Polymer</i> , 2019 , 168, 236-245	3.9	3
17	Quasi-static Load Sharing Model in the Case of Moulded Glass Fibre Reinforced Polyamide 6 Gears. <i>Applied Composite Materials</i> , 2015 , 22, 343-362	2	3
16	Improvement of the Mechanical Properties of Calcium Phosphate Bone Substitutes by Polycaprolactone Infiltration. <i>Key Engineering Materials</i> , 2007 , 361-363, 403-406	0.4	3
15	Polymer Chain Generation for Coarse-Grained Models Using Radical-Like Polymerization. <i>Communications in Computational Physics</i> , 2018 , 24,	2.4	3
14	Different dynamic behaviors of the dissociation and recombination reactions in a model calculation of polyethylene by first-principles steered molecular dynamics simulation. <i>Chemical Physics</i> , 2015 , 459, 96-101	2.3	2
13	Linear and nonlinear viscoelastic properties of segmented silicone-urea copolymers: Influence of the hard segment structure. <i>Polymer</i> , 2020 , 186, 122041	3.9	2
12	Mathematical Modeling of Rubber Elasticity. <i>Journal of Physics: Conference Series</i> , 2018 , 1141, 012081	0.3	2
11	About the Influence of Materials Parameters on the Ultimate and Fatigue Properties of Elastomers. <i>Advances in Polymer Science</i> , 2020 , 297-329	1.3	2
10	Coarse-Grained Lattice Modeling and Monte Carlo Simulations of Stress Relaxation in Strain-Induced Crystallization of Rubbers. <i>Polymers</i> , 2020 , 12,	4.5	1
9	Advanced Microscopy Techniques for a Better Understanding of the Polymer/Nanotube Composite Properties 2014 , 365-404		1
8	Experimental and numerical study of a loaded cylindrical glass fibre reinforced PA6 gear 2014 , 138-147		1

7	CRACKING BEHAVIOR OF CARBON BLACK FILLED ELASTOMERS. <i>International Journal of Nanoscience</i> , 2010 , 09, 557-561	0.6	1
6	Nanocomposites base polymère, renforcé par des particules rigides. <i>Mecanique Et Industries</i> , 2004 , 5, 489-496		1
5	Elastocaloric properties of thermoplastic polyurethane. <i>Applied Physics Letters</i> , 2020 , 117, 193903	3.4	1
4	Monte Carlo Study of Rubber Elasticity on the Basis of Finsler Geometry Modeling. <i>Symmetry</i> , 2019 , 11, 1124	2.7	1
3	Polymer/Laponite Nanocomposite Films Produced from Surfactant-Free Latexes using Cationic Macromolecular Reversible Addition-Fragmentation Chain Transfer Copolymers. <i>Macromolecules</i> , 2021 , 54, 7480-7491	5.5	0
2	Composites organiques-inorganiques pour la substitution et la réparation osseuse : concepts, premiers résultats et potentialité. <i>MATEC Web of Conferences</i> , 2013 , 7, 04013	0.3	
1	New insights about strain-induced crystallization of natural rubber thanks to in situ X-rays measurements during uniaxial cyclic deformation at high velocity 2011 , 39-44		