

# Laurent Delbreilh

## List of Publications by Citations

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63

papers

1,141

citations

22

h-index

31

g-index

70

ext. papers

1,312

ext. citations

4.1

avg, IF

4.29

L-index

#	Paper	IF	Citations
63	Development of poly(isobutylene-co-isoprene)/reduced graphene oxide nanocomposites for barrier, dielectric and sensing applications. <i>Materials Letters</i> , <b>2013</b> , 96, 109-112	3.3	95
62	Study of the cooperativity at the glass transition temperature in PC/PMMA multilayered films: Influence of thickness reduction from macro- to nanoscale. <i>Polymer</i> , <b>2012</b> , 53, 1355-1361	3.9	62
61	Temperature dependence of the characteristic length scale for glassy dynamics: combination of dielectric and specific heat spectroscopy. <i>Physical Review E</i> , <b>2010</b> , 81, 041805	2.4	56
60	Structural Dependence of the Molecular Mobility in the Amorphous Fractions of Polylactide. <i>Macromolecules</i> , <b>2014</b> , 47, 5186-5197	5.5	54
59	Molecular motions in functional self-assembled nanostructures. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 2303-33	6.3	44
58	From a Three-Phase Model to a Continuous Description of Molecular Mobility in Semicrystalline Poly(hydroxybutyrate-co-hydroxyvalerate). <i>Macromolecules</i> , <b>2016</b> , 49, 4850-4861	5.5	43
57	Polymer additive manufacturing of ABS structure: Influence of printing direction on mechanical properties. <i>Journal of Manufacturing Processes</i> , <b>2019</b> , 44, 288-298	5	41
56	Effect of macromolecular orientation on the structural relaxation mechanisms of poly(ethylene terephthalate). <i>Polymer</i> , <b>2005</b> , 46, 3090-3095	3.9	41
55	Study of poly(bisphenol A carbonate) relaxation kinetics at the glass transition temperature. <i>European Polymer Journal</i> , <b>2007</b> , 43, 249-254	5.2	39
54	Dynamic Heterogeneity and Cooperative Length Scale at Dynamic Glass Transition in Glass Forming Liquids. <i>Macromolecules</i> , <b>2015</b> , 48, 8219-8231	5.5	38
53	Molecular mobility and physical ageing of plasticized poly(lactide). <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 858-865	2.3	35
52	High performance HTLNR/epoxy blend Phase morphology and thermo-mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 804-811	2.9	35
51	Quantifying Polymer Chain Orientation in Strong and Tough Nanofibers with Low Crystallinity: Toward Next Generation Nanostructured Superfibers. <i>ACS Nano</i> , <b>2019</b> , 13, 4893-4927	16.7	32
50	Combining Flash DSC, DSC and broadband dielectric spectroscopy to determine fragility. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 453-461	4.1	32
49	Cooperativity length scale in nanocomposites: interfacial and confinement effects. <i>Physical Review E</i> , <b>2013</b> , 88, 042605	2.4	32
48	Glass Transition Temperature and Value of the Relaxation Time at T <sub>g</sub> in Vitreous Polymers. <i>Macromolecular Symposia</i> , <b>2007</b> , 258, 152-161	0.8	32
47	Fragility and molecular mobility in micro- and nano-layered PC/PMMA films. <i>Polymer</i> , <b>2014</b> , 55, 1546-1553	3.9	29

46	Dielectric relaxations in polyhydroxyalkanoates/organoclay nanocomposites. <i>European Polymer Journal</i> , <b>2013</b> , 49, 3434-3444	5.2	27
45	Molecular Mobility in Amorphous Biobased Poly(ethylene 2,5-furandicarboxylate) and Poly(ethylene 2,4-furandicarboxylate). <i>Macromolecules</i> , <b>2018</b> , 51, 1937-1945	5.5	25
44	Relaxation in poly-(ethylene terephthalate glycol)/montmorillonite nanocomposites studied by dielectric methods. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 4334-4338	3.9	25
43	Fragility of a thermoplastic polymer. Influence of main chain rigidity in polycarbonate. <i>Materials Letters</i> , <b>2005</b> , 59, 2881-2885	3.3	24
42	Crystallization kinetics and molecular mobility of an amorphous active pharmaceutical ingredient: A case study with Bicletymol. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 490, 248-57	6.5	23
41	Segmental mobility and glass transition of poly(ethylene-vinyl acetate) copolymers: Is there a continuum in the dynamic glass transitions from PVAc to PE?. <i>Polymer</i> , <b>2015</b> , 76, 213-219	3.9	22
40	Glass transition investigated by a combined protocol using thermostimulated depolarization currents and differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 96, 865-871	4.1	22
39	Transformation of an active pharmaceutical ingredient upon high-energy milling: A process-induced disorder in Bicletymol. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 499, 67-73	6.5	21
38	Molecular Relaxations in Supercooled Liquid and Glassy States of Amorphous Quinidine: Dielectric Spectroscopy and Density Functional Theory Approaches. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 7579-92	3.4	17
37	Influence of crystallinity on the dielectric relaxations of poly(butylene succinate) and poly[(butylene succinate)-co-(butylene adipate)]. <i>European Polymer Journal</i> , <b>2016</b> , 84, 366-376	5.2	17
36	Investigation of Drug-Excipient Interactions in Bicletymol Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1112-1125	5.6	11
35	Determination of the equilibrium enthalpy of melting of two-phase semi-crystalline polymers by fast scanning calorimetry. <i>Thermochimica Acta</i> , <b>2019</b> , 677, 67-78	2.9	10
34	Insights on the Physical State Reached by an Active Pharmaceutical Ingredient upon High-Energy Milling. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 5142-5150	3.4	9
33	Highlight of primary and secondary relaxations in amorphous stereocomplex polylactides. <i>EXPRESS Polymer Letters</i> , <b>2020</b> , 14, 48-62	3.4	9
32	Enhancement of the Physical and Chemical Stability of Amorphous Drug-Polymer Mixtures via Cryogenic Comilling. <i>Macromolecules</i> , <b>2018</b> , 51, 9382-9392	5.5	9
31	From monomers to self-assembled monolayers: the evolution of molecular mobility with structural confinements. <i>Soft Matter</i> , <b>2015</b> , 11, 719-31	3.6	8
30	Molecular Mobility of an Amorphous Chiral Pharmaceutical Compound: Impact of Chirality and Chemical Purity. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 7729-7740	3.4	8
29	Supramolecular Nanolayer Reconfiguration after Molecular Intercalation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10351-10356	3.8	8

28	Vitrification of two active pharmaceutical ingredients by fast scanning calorimetry: From structural relaxation to nucleation phenomena. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 536, 426-433	6.5	8
27	Reducing the Gap between the Activation Energy Measured in the Liquid and the Glassy States by Adding a Plasticizer to Polylactide. <i>ACS Omega</i> , <b>2018</b> , 3, 17092-17099	3.9	8
26	Secondary Retardation/Relaxation Processes in Bisphenol A Polycarbonate: Thermostimulated Creep and Dynamic Mechanical Analysis Combined Investigations. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2005</b> , 10, 41-56	1.7	7
25	Amorphous rigidification and cooperativity drop in semicrystalline plasticized polylactide. <i>Polymer</i> , <b>2020</b> , 194, 122373	3.9	6
24	Cooperativity Scaling and Free Volume in Plasticized Polylactide. <i>Macromolecules</i> , <b>2019</b> , 52, 6107-6115	5.5	6
23	Compactness/density assessment of newly-paved highway containing recycled asphalt pavement by means of non-nuclear method. <i>Construction and Building Materials</i> , <b>2017</b> , 154, 1151-1163	6.7	6
22	Fabrication and characterization of multi-filament copper matrix/polyethylene fibres composite wire. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1218-1224	8.6	6
21	Rock permittivity characterization and application of electromagnetic mixing models for density/compactness assessment of HMA by means of step-frequency radar. <i>Near Surface Geophysics</i> , <b>2016</b> , 14, 551-562	1.6	6
20	Low velocity impact of ABS after shot peening predefined layers during additive manufacturing. <i>Procedia Manufacturing</i> , <b>2019</b> , 34, 594-602	1.5	5
19	Quasi-isothermal and heat flow protocols from MT-DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 381-388	4.1	5
18	Thermal growth of organic supramolecular crystals with screw dislocations. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 112, 301-305	4.1	5
17	Anisotropic loss of toughness with physical aging of work toughened polycarbonate. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 794-804	2.3	4
16	Design of a thermostimulated creep measurement system using magnetic fields for polymers. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 2271-2275	1.7	4
15	Molecular mobility in amorphous biobased copolyesters obtained with 2,5- and 2,4-furandicarboxylate acid. <i>Polymer</i> , <b>2021</b> , 213, 123225	3.9	4
14	Physical and rheological properties of biodegradable poly(butylene succinate)/Alfa fiber composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572090409	1.9	3
13	Relaxation dynamics in plasticized polylactide <b>2018</b> ,		3
12	Fragility of short-chain poly(lactic acid)s derivatives by combining dielectric spectroscopy and fast scanning calorimetry. <i>Journal of Polymer Science</i> , <b>2021</b> , 59, 1571-1577	2.4	3
11	On the improvement of thermo-mechanical behavior of carbon/polyphenylene sulfide laminated composites upon annealing at high temperature. <i>Composites Part B: Engineering</i> , <b>2021</b> , 216, 108858	10	3

10	Correlated and cooperative motions in segmental relaxation: Influence of constitutive unit weight and intermolecular interactions. <i>Physical Review E</i> , <b>2016</b> , 94, 062502	2.4	3
9	Dielectric and calorimetric signatures of chain orientation in strong and tough ultrafine electrospun polyacrylonitrile. <i>Polymer</i> , <b>2019</b> , 178, 121638	3.9	2
8	Relaxation modes in glassy polymers: A temporal analysis by the simplex method of isothermal depolarisation current measurements. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 3679-3683	2.8	2
7	Self-assembly of organic-inorganic hybrid nanolayers: effect of endgroup polarity on nanostructures. <i>MATEC Web of Conferences</i> , <b>2013</b> , 3, 01016	0.3	1
6	Physical aging of multilayer polymer films: Influence of layer thickness on enthalpy relaxation process, effect of confinement. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	1
5	Production of Reproducible Filament Batches for the Fabrication of 3D Printed Oral Forms. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	1
4	D-Sorbitol Physical Properties Effects on Filaments Used by 3D Printing Process for Personalized Medicine. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
3	Water-Induced Breaking of Interfacial Cohesiveness in a Poly(lactic acid)/Miscanthus Fibers Biocomposite. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
2	Microstructural properties and dielectric relaxations of partially fluorinated copolymers. <i>Polymer</i> , <b>2018</b> , 157, 50-58	3.9	0
1	Vibro-Acoustic Behaviour in Biosourced Composites. <i>Macromolecular Symposia</i> , <b>2013</b> , 328, 56-63	0.8	