

# eric Dargent

## List of Publications by Citations

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88

papers

1,868

citations

27

h-index

37

g-index

90

ext. papers

2,083

ext. citations

4.2

avg, IF

4.77

L-index

#	Paper	IF	Citations
88	Mobile amorphous phase fragility in semi-crystalline polymers: Comparison of PET and PLLA. <i>Polymer</i> , <b>2007</b> , 48, 1012-1019	3.9	123
87	Water barrier properties in biaxially drawn poly(lactic acid) films. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 4615-25	3.4	84
86	Cooperative rearranging region size in semi-crystalline poly(l-lactic acid). <i>Polymer</i> , <b>2008</b> , 49, 3130-3135	3.9	69
85	Cooperativity length evolution during crystallization of poly(lactic acid). <i>European Polymer Journal</i> , <b>2011</b> , 47, 2414-2423	5.2	56
84	Structural Dependence of the Molecular Mobility in the Amorphous Fractions of Polylactide. <i>Macromolecules</i> , <b>2014</b> , 47, 5186-5197	5.5	54
83	Three phase model in drawn thermoplastic polyesters: comparison of differential scanning calorimetry and thermally stimulated depolarisation current experiments. <i>Polymer</i> , <b>2002</b> , 43, 1399-1405	3.9	54
82	Microstructure and barrier properties of PHBV/organoclays bionanocomposites. <i>Journal of Membrane Science</i> , <b>2014</b> , 467, 56-66	9.6	49
81	Cooperative rearranging region size determination by temperature modulated DSC in semi-crystalline poly(l-lactide acid). <i>European Polymer Journal</i> , <b>2007</b> , 43, 4675-4682	5.2	47
80	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
79	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
78	Strain-induced crystallization in uniaxially drawn PETG plates. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 3405-3412	2.9	41
77	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
76	Evidence of Cooperative Rearranging Region size anisotropy for drawn PET. <i>European Polymer Journal</i> , <b>2008</b> , 44, 3377-3384	5.2	37
75	Structure and Barrier Properties of Biodegradable Polyhydroxyalkanoate Films. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6165-6177	3.8	36
74	Probing the chain segment mobility at the interface of semi-crystalline polylactide/clay nanocomposites. <i>European Polymer Journal</i> , <b>2016</b> , 78, 274-289	5.2	36
73	Molecular mobility and physical ageing of plasticized poly(lactide). <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 858-865	2.3	35
72	Evidence of two mobile amorphous phases in semicrystalline polylactide observed from calorimetric investigations. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 1144-1150	2.3	35

71	Effect of boron nitride as a nucleating agent on the crystallization of bacterial poly(3-hydroxybutyrate). <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 2586-2594	2.9	34
70	Thermal behaviour of drawn semicrystalline poly(ethylene terephthalate) films. <i>Journal of Thermal Analysis</i> , <b>1994</b> , 41, 1409-1415		34
69	Physical aging in PLA through standard DSC and fast scanning calorimetry investigations. <i>Thermochimica Acta</i> , <b>2017</b> , 648, 13-22	2.9	33
68	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
67	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
66	Glass Transition Temperature and Value of the Relaxation Time at Tg in Vitreous Polymers. <i>Macromolecular Symposia</i> , <b>2007</b> , 258, 152-161	0.8	32
65	New hybrid membranes for fuel cells: Plasma treated laponite based sulfonated polysulfone. <i>Journal of Membrane Science</i> , <b>2010</b> , 351, 1-10	9.6	31
64	Fragility index of drawn or annealed poly(ethylene terephthalate) films studied by thermally stimulated depolarisation currents. <i>Polymer</i> , <b>2003</b> , 44, 3995-4001	3.9	29
63	Structure-barrier property relationship of biodegradable poly(butylene succinate) and poly[(butylene succinate)-co-(butylene adipate)] nanocomposites: influence of the rigid amorphous fraction. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 29918-34	3.6	27
62	Dielectric relaxations in polyhydroxyalkanoates/organoclay nanocomposites. <i>European Polymer Journal</i> , <b>2013</b> , 49, 3434-3444	5.2	27
61	Molecular dynamics in electrospun amorphous plasticized polylactide fibers. <i>Polymer</i> , <b>2015</b> , 73, 68-78	3.9	26
60	Improvement of barrier properties of bio-based polyester nanocomposite membranes by water-assisted extrusion. <i>Journal of Membrane Science</i> , <b>2015</b> , 496, 185-198	9.6	25
59	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
58	Amorphous phase dynamics at the glass transition in drawn semi-crystalline polyester. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 97, 541-546	4.1	24
57	Physical ageing and molecular mobilities of sulfonated polysulfone for proton exchange membranes. <i>Thermochimica Acta</i> , <b>2010</b> , 509, 18-23	2.9	24
56	Crystallization kinetics and molecular mobility of an amorphous active pharmaceutical ingredient: A case study with Biotin. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 490, 248-57	6.5	23
55	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
54	Contribution of chain alignment and crystallization in the evolution of cooperativity in drawn polymers. <i>Polymer</i> , <b>2014</b> , 55, 2882-2889	3.9	22

53	Poly[(butylene succinate)-co-(butylene adipate)]-Montmorillonite Nanocomposites Prepared by Water-Assisted Extrusion: Role of the Dispersion Level and of the Structure-Microstructure on the Enhanced Barrier Properties. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13234-13248	3.8	21
52	Transformation of an active pharmaceutical ingredient upon high-energy milling: A process-induced disorder in Biclotymol. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 499, 67-73	6.5	21
51	Relationship between Draw Ratio and Strain-Induced Crystallinity in Uniaxially Hot-Drawn PET MXD6 Films. <i>Journal of Plastic Film and Sheeting</i> , <b>2005</b> , 21, 233-251	2.4	20
50	Permeation properties of poly(m-xylene adipamide) membranes. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 3445-52	3.4	19
49	Crystallization and melting behaviour of poly(m-xylene adipamide). <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2006</b> , 85, 409-415	4.1	19
48	Dielectric relaxations in drawn semi-crystalline poly(ethylene terephthalate). <i>Journal of Non-Crystalline Solids</i> , <b>1994</b> , 172-174, 1062-1065	3.9	19
47	Molecular mobility of amorphous N-acetyl- $\beta$ -methylbenzylamine and Debye relaxation evidenced by dielectric relaxation spectroscopy and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 702-717	3.6	19
46	Multifunctional hydrolyzed EVA membranes with tunable microstructure and water barrier properties. <i>Journal of Membrane Science</i> , <b>2015</b> , 480, 93-103	9.6	17
45	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
44	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
43	Vitrification of PLA by fast scanning calorimetry: Towards unique glass above critical cooling rate?. <i>Thermochimica Acta</i> , <b>2017</b> , 658, 47-54	2.9	16
42	Rigid amorphous fraction versus oriented amorphous fraction in uniaxially drawn polyesters. <i>European Polymer Journal</i> , <b>2014</b> , 58, 233-244	5.2	16
41	Synthesis and Thermal Properties of Bio-Based Copolyesters from the Mixtures of 2,5- and 2,4-Furandicarboxylic Acid with Different Diols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18505-18516	8.3	15
40	Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) based nanocomposites: influence of the microstructure on the barrier properties. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 11313-23	3.6	13
39	Effects of Size and Specific Surface Area of Boron Nitride Particles on the Crystallization of Bacterial Poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecular Symposia</i> , <b>2013</b> , 328, 8-19	0.8	13
38	Effect of water molecules on crystallization during uniaxial drawing of poly(ethylene terephthalate) films. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 77, 1056-1066	2.9	12
37	Investigation of Drug-Excipient Interactions in Biclotymol Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1112-1125	5.6	11
36	Average size of cooperative rearranging regions and fragility in a drawn poly(ethylene terephthalate) at the glass transition. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 345-349	3.9	11

35	Layered Poly(ethylene-co-vinyl acetate)/Poly(ethylene-co-vinyl alcohol) Membranes with Enhanced Water Separation Selectivity and Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6411-6423	9.5	10
34	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
33	Effect of Random Ethylene Comonomer on Relaxation of Flow-Induced Precursors in Isotactic Polypropylene. <i>Macromolecules</i> , <b>2017</b> , 50, 6396-6403	5.5	10
32	Barrier properties and microstructure modifications induced by liquid water for a semiaromatic polyamide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 2604-2616	2.6	10
31	Reduced physical aging rates of polylactide in polystyrene/polylactide multilayer films from fast scanning calorimetry. <i>Polymer</i> , <b>2018</b> , 150, 1-9	3.9	10
30	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
29	Crystallization from the Amorphous State of a Pharmaceutical Compound: Impact of Chirality and Chemical Purity. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 337-346	3.5	9
28	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
27	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
26	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
25	Impact of chirality on the Glass Forming Ability and the crystallization from the amorphous state of 5-ethyl-5-methylhydantoin, a chiral poor glass former. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 540, 11-21	6.5	7
24	Evidence of cooperativity length anisotropy in drawn polymers. <i>Materials Letters</i> , <b>2014</b> , 128, 12-14	3.3	7
23	Local and segmental motions of the mobile amorphous fraction in semi-crystalline polylactide crystallized under quiescent and flow-induced conditions. <i>Polymer</i> , <b>2017</b> , 126, 141-151	3.9	7
22	Characterization of polyethylene terephthalate films drawn in hot water. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 223-230	2.3	7
21	Cooperativity Scaling and Free Volume in Plasticized Polylactide. <i>Macromolecules</i> , <b>2019</b> , 52, 6107-6115	5.5	6
20	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
19	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
18	The Influence of Drawing in Hot Water on The Morphological Properties of Pet Films as Measured by DSC and Modulated DSC. <i>Magyar Ártud Kztemlyek</i> , <b>2002</b> , 68, 5-13	0	6

17	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
16	Optimization of experimental conditions for the monitoring of nucleation and growth of racemic Diprophylline from the supercooled melt. <i>Journal of Crystal Growth</i> , <b>2017</b> , 472, 11-17	1.6	4
15	Temperature dependence of structural relaxation time in drawn polymers: Which is the role of cooperativity? <b>2012</b> ,		4
14	Influence of very long aging on the relaxation behavior of flame-retardant printed circuit board epoxy composites under mechatronic conditions. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 786-792 <sup>2,9</sup>		4
13	Thermal Properties Evolution of PCB FR4 Epoxy Composites for Mechatronic During Very Long Ageing. <i>Macromolecular Symposia</i> , <b>2012</b> , 315, 143-151	0.8	4
12	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
11	Relaxation dynamics in plasticized polylactide <b>2018</b> ,		3
10	Microstructural modifications in uniaxially hot-drawn polycyclohexylene terephthalate films. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 509-517	2.3	3
9	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
8	Chirality impact on physical ageing: An original case of a small organic molecule. <i>Materials Letters</i> , <b>2018</b> , 228, 141-144	3.3	3
7	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
6	Crystallisation and molecular mobilities in liquid and glassy states of a MXD6 polyamide. <i>Composite Interfaces</i> , <b>2006</b> , 13, 403-413	2.3	2
5	Structural and Barrier Properties of Compatibilized PE/PA6 Multinanolayer Films. <i>Membranes</i> , <b>2021</b> , 11,	3.8	2
4	Water Diffusion Mechanisms in New Bio-Nanocomposites Based on Polyhydroxyalkanoates/Nanoclays. <i>Advanced Materials Research</i> , <b>2013</b> , 747, 682-685	0.5	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	