

eric Dargent

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Water-Induced Breaking of Interfacial Cohesiveness in a Poly(lactic acid)/Miscanthus Fibers Biocomposite. <i>Polymers</i> , 2021 , 13,	4.5	1
87	Molecular mobility in amorphous biobased copolyesters obtained with 2,5- and 2,4-furandicarboxylate acid. <i>Polymer</i> , 2021 , 213, 123225	3.9	4
86	Structural and Barrier Properties of Compatibilized PE/PA6 Multinanolayer Films. <i>Membranes</i> , 2021 , 11,	3.8	2
85	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> , 2019 , 7, 18505-18516	8.3	15
84	Determination of the equilibrium enthalpy of melting of two-phase semi-crystalline polymers by fast scanning calorimetry. <i>Thermochimica Acta</i> , 2019 , 677, 67-78	2.9	10
83	Quantifying Polymer Chain Orientation in Strong and Tough Nanofibers with Low Crystallinity: Toward Next Generation Nanostructured Superfibers. <i>ACS Nano</i> , 2019 , 13, 4893-4927	16.7	32
82	Cooperativity Scaling and Free Volume in Plasticized Polylactide. <i>Macromolecules</i> , 2019 , 52, 6107-6115	5.5	6
81	Dielectric and calorimetric signatures of chain orientation in strong and tough ultrafine electrospun polyacrylonitrile. <i>Polymer</i> , 2019 , 178, 121638	3.9	2
80	Molecular mobility of amorphous N-acetyl- β -methylbenzylamine and Debye relaxation evidenced by dielectric relaxation spectroscopy and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 702-717	3.6	19
79	Molecular Mobility in Amorphous Biobased Poly(ethylene 2,5-furandicarboxylate) and Poly(ethylene 2,4-furandicarboxylate). <i>Macromolecules</i> , 2018 , 51, 1937-1945	5.5	25
78	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> , 2018 , 540, 11-21	6.5	7
77	Investigation of Drug-Excipient Interactions in Bicalotymol Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1112-1125	5.6	11
76	Relaxation dynamics in plasticized polylactide 2018 ,		3
75	Vitrification of two active pharmaceutical ingredients by fast scanning calorimetry: From structural relaxation to nucleation phenomena. <i>International Journal of Pharmaceutics</i> , 2018 , 536, 426-433	6.5	8
74	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> , 2018 , 3, 17092-17099	3.9	8
73	Microstructural properties and dielectric relaxations of partially fluorinated copolymers. <i>Polymer</i> , 2018 , 157, 50-58	3.9	0
72	Chirality impact on physical ageing: An original case of a small organic molecule. <i>Materials Letters</i> , 2018 , 228, 141-144	3.3	3

71	Reduced physical aging rates of polylactide in polystyrene/polylactide multilayer films from fast scanning calorimetry. <i>Polymer</i> , 2018 , 150, 1-9	3.9	10
70	Layered Poly(ethylene-co-vinyl acetate)/Poly(ethylene-co-vinyl alcohol) Membranes with Enhanced Water Separation Selectivity and Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6411-6423	9.5	10
69	Insights on the Physical State Reached by an Active Pharmaceutical Ingredient upon High-Energy Milling. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5142-5150	3.4	9
68	Crystallization from the Amorphous State of a Pharmaceutical Compound: Impact of Chirality and Chemical Purity. <i>Crystal Growth and Design</i> , 2017 , 17, 337-346	3.5	9
67	Optimization of experimental conditions for the monitoring of nucleation and growth of racemic Diprophylline from the supercooled melt. <i>Journal of Crystal Growth</i> , 2017 , 472, 11-17	1.6	4
66	Physical aging in PLA through standard DSC and fast scanning calorimetry investigations. <i>Thermochimica Acta</i> , 2017 , 648, 13-22	2.9	33
65	Vitrification of PLA by fast scanning calorimetry: Towards unique glass above critical cooling rate?. <i>Thermochimica Acta</i> , 2017 , 658, 47-54	2.9	16
64	Molecular Mobility of an Amorphous Chiral Pharmaceutical Compound: Impact of Chirality and Chemical Purity. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7729-7740	3.4	8
63	Compactness/density assessment of newly-paved highway containing recycled asphalt pavement by means of non-nuclear method. <i>Construction and Building Materials</i> , 2017 , 154, 1151-1163	6.7	6
62	Effect of Random Ethylene Comonomer on Relaxation of Flow-Induced Precursors in Isotactic Polypropylene. <i>Macromolecules</i> , 2017 , 50, 6396-6403	5.5	10
61	Local and segmental motions of the mobile amorphous fraction in semi-crystalline polylactide crystallized under quiescent and flow-induced conditions. <i>Polymer</i> , 2017 , 126, 141-151	3.9	7
60	From a Three-Phase Model to a Continuous Description of Molecular Mobility in Semicrystalline Poly(hydroxybutyrate-co-hydroxyvalerate). <i>Macromolecules</i> , 2016 , 49, 4850-4861	5.5	43
59	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> , 2016 , 120, 13234-13248	3.8	21
58	Transformation of an active pharmaceutical ingredient upon high-energy milling: A process-induced disorder in Biclotymol. <i>International Journal of Pharmaceutics</i> , 2016 , 499, 67-73	6.5	21
57	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> , 2016 , 14, 551-562	1.6	6
56	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> , 2016 , 120, 7579-92	3.4	17
55	Correlated and cooperative motions in segmental relaxation: Influence of constitutive unit weight and intermolecular interactions. <i>Physical Review E</i> , 2016 , 94, 062502	2.4	3
54	Probing the chain segment mobility at the interface of semi-crystalline polylactide/clay nanocomposites. <i>European Polymer Journal</i> , 2016 , 78, 274-289	5.2	36

53	Influence of crystallinity on the dielectric relaxations of poly(butylene succinate) and poly[(butylene succinate)-co-(butylene adipate)]. <i>European Polymer Journal</i> , 2016 , 84, 366-376	5.2	17
52	Combining Flash DSC, DSC and broadband dielectric spectroscopy to determine fragility. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 453-461	4.1	32
51	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> , 2015 , 76, 213-219	3.9	22
50	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> , 2015 , 17, 29918-34	3.6	27
49	Improvement of barrier properties of bio-based polyester nanocomposite membranes by water-assisted extrusion. <i>Journal of Membrane Science</i> , 2015 , 496, 185-198	9.6	25
48	Poly(3-hydroxybutyrate-co-4-hydroxybutyrate) based nanocomposites: influence of the microstructure on the barrier properties. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11313-23	3.6	13
47	Molecular mobility and physical ageing of plasticized poly(lactide). <i>Polymer Engineering and Science</i> , 2015 , 55, 858-865	2.3	35
46	Crystallization kinetics and molecular mobility of an amorphous active pharmaceutical ingredient: A case study with Bicalotymol. <i>International Journal of Pharmaceutics</i> , 2015 , 490, 248-57	6.5	23
45	Molecular dynamics in electrospun amorphous plasticized polylactide fibers. <i>Polymer</i> , 2015 , 73, 68-78	3.9	26
44	Multifunctional hydrolyzed EVA membranes with tunable microstructure and water barrier properties. <i>Journal of Membrane Science</i> , 2015 , 480, 93-103	9.6	17
43	Structure and Barrier Properties of Biodegradable Polyhydroxyalkanoate Films. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6165-6177	3.8	36
42	Structural Dependence of the Molecular Mobility in the Amorphous Fractions of Polylactide. <i>Macromolecules</i> , 2014 , 47, 5186-5197	5.5	54
41	Microstructure and barrier properties of PHBV/organoclays bionanocomposites. <i>Journal of Membrane Science</i> , 2014 , 467, 56-66	9.6	49
40	Evidence of cooperativity length anisotropy in drawn polymers. <i>Materials Letters</i> , 2014 , 128, 12-14	3.3	7
39	Rigid amorphous fraction versus oriented amorphous fraction in uniaxially drawn polyesters. <i>European Polymer Journal</i> , 2014 , 58, 233-244	5.2	16
38	Contribution of chain alignment and crystallization in the evolution of cooperativity in drawn polymers. <i>Polymer</i> , 2014 , 55, 2882-2889	3.9	22
37	Evidence of two mobile amorphous phases in semicrystalline polylactide observed from calorimetric investigations. <i>Polymer Engineering and Science</i> , 2014 , 54, 1144-1150	2.3	35
36	Effect of boron nitride as a nucleating agent on the crystallization of bacterial poly(3-hydroxybutyrate). <i>Journal of Applied Polymer Science</i> , 2013 , 128, 2586-2594	2.9	34

35	Dielectric relaxations in polyhydroxyalkanoates/organoclay nanocomposites. <i>European Polymer Journal</i> , 2013 , 49, 3434-3444	5.2	27
34	Vibro-Acoustic Behaviour in Biosourced Composites. <i>Macromolecular Symposia</i> , 2013 , 328, 56-63	0.8	
33	Water Diffusion Mechanisms in New Bio-Nanocomposites Based on Polyhydroxyalkanoates/Nanoclays. <i>Advanced Materials Research</i> , 2013 , 747, 682-685	0.5	1
32	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> , 2013 , 328, 8-19	0.8	13
31	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> , 2013 , 130, 786-792 ^{2.9}		4
30	Water barrier properties in biaxially drawn poly(lactic acid) films. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4615-25	3.4	84
29	Temperature dependence of structural relaxation time in drawn polymers: Which is the role of cooperativity? 2012 ,		4
28	Thermal Properties Evolution of PCB FR4 Epoxy Composites for Mechatronic During Very Long Ageing. <i>Macromolecular Symposia</i> , 2012 , 315, 143-151	0.8	4
27	Cooperativity length evolution during crystallization of poly(lactic acid). <i>European Polymer Journal</i> , 2011 , 47, 2414-2423	5.2	56
26	New hybrid membranes for fuel cells: Plasma treated laponite based sulfonated polysulfone. <i>Journal of Membrane Science</i> , 2010 , 351, 1-10	9.6	31
25	Physical ageing and molecular mobilities of sulfonated polysulfone for proton exchange membranes. <i>Thermochimica Acta</i> , 2010 , 509, 18-23	2.9	24
24	Amorphous phase dynamics at the glass transition in drawn semi-crystalline polyester. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 97, 541-546	4.1	24
23	Fabrication and characterization of multi-filament copper matrix/polyethylene fibres composite wire. <i>Composites Science and Technology</i> , 2009 , 69, 1218-1224	8.6	6
22	Permeation properties of poly(m-xylene adipamide) membranes. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3445-52	3.4	19
21	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> , 2008 , 354, 345-349	3.9	11
20	Cooperative rearranging region size in semi-crystalline poly(L-lactic acid). <i>Polymer</i> , 2008 , 49, 3130-3135	3.9	69
19	Evidence of Cooperative Rearranging Region size anisotropy for drawn PET. <i>European Polymer Journal</i> , 2008 , 44, 3377-3384	5.2	37
18	Glass Transition Temperature and Value of the Relaxation Time at T _g in Vitreous Polymers. <i>Macromolecular Symposia</i> , 2007 , 258, 152-161	0.8	32

17	Study of poly(bisphenol A carbonate) relaxation kinetics at the glass transition temperature. <i>European Polymer Journal</i> , 2007 , 43, 249-254	5.2	39
16	Cooperative rearranging region size determination by temperature modulated DSC in semi-crystalline poly(l-lactide acid). <i>European Polymer Journal</i> , 2007 , 43, 4675-4682	5.2	47
15	Mobile amorphous phase fragility in semi-crystalline polymers: Comparison of PET and PLLA. <i>Polymer</i> , 2007 , 48, 1012-1019	3.9	123
14	Crystallisation and molecular mobilities in liquid and glassy states of a MXD6 polyamide. <i>Composite Interfaces</i> , 2006 , 13, 403-413	2.3	2
13	Crystallization and melting behaviour of poly(m-xylene adipamide). <i>Journal of Thermal Analysis and Calorimetry</i> , 2006 , 85, 409-415	4.1	19
12	Effect of macromolecular orientation on the structural relaxation mechanisms of poly(ethylene terephthalate). <i>Polymer</i> , 2005 , 46, 3090-3095	3.9	41
11	Barrier properties and microstructure modifications induced by liquid water for a semiaromatic polyamide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 2604-2616	2.6	10
10	Relationship between Draw Ratio and Strain-Induced Crystallinity in Uniaxially Hot-Drawn PET MXD6 Films. <i>Journal of Plastic Film and Sheeting</i> , 2005 , 21, 233-251	2.4	20
9	Characterization of polyethylene terephthalate films drawn in hot water. <i>Polymer Engineering and Science</i> , 2004 , 44, 223-230	2.3	7
8	Microstructural modifications in uniaxially hot-drawn polycyclohexylene terephthalate films. <i>Polymer Engineering and Science</i> , 2004 , 44, 509-517	2.3	3
7	Fragility index of drawn or annealed poly(ethylene terephthalate) films studied by thermally stimulated depolarisation currents. <i>Polymer</i> , 2003 , 44, 3995-4001	3.9	29
6	Three phase model in drawn thermoplastic polyesters: comparison of differential scanning calorimetry and thermally stimulated depolarisation current experiments. <i>Polymer</i> , 2002 , 43, 1399-1405	3.9	54
5	The Influence of Drawing in Hot Water on The Morphological Properties of Pet Films as Measured by DSC and Modulated DSC. <i>Magyar Áprilad Közlemények</i> , 2002 , 68, 5-13	0	6
4	Strain-induced crystallization in uniaxially drawn PETG plates. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 3405-3412	2.9	41
3	Effect of water molecules on crystallization during uniaxial drawing of poly(ethylene terephthalate) films. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 1056-1066	2.9	12
2	Thermal behaviour of drawn semicrystalline poly(ethylene terephthalate) films. <i>Journal of Thermal Analysis</i> , 1994 , 41, 1409-1415		34
1	Dielectric relaxations in drawn semi-crystalline poly(ethylene terephthalate). <i>Journal of Non-Crystalline Solids</i> , 1994 , 172-174, 1062-1065	3.9	19