

# Daniele Prevosto

## List of Publications by Year in descending order

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45  
papers

1,330  
citations

304743

22  
h-index

345221

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47  
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47  
docs citations

47  
times ranked

983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Many-Body Nature of Relaxation Processes in Glass-Forming Systems. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 735-743.	4.6	171
2	Interdependence of Primary and Johari-Goldstein Secondary Relaxations in Glass-Forming Systems. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4470-4473.	2.6	104
3	Influence of a Reduced Mobility Layer on the Structural Relaxation Dynamics of Aluminum Capped Ultrathin Films of Poly(ethylene terephthalate). <i>Langmuir</i> , 2007, 23, 2103-2109.	3.5	83
4	Dynamics of supercooled and glassy dipropylenglycol dibenzoate as functions of temperature and aging: Interpretation within the coupling model framework. <i>Journal of Chemical Physics</i> , 2004, 120, 4808-4815.	3.0	82
5	Identifying the genuine Johari-Goldstein $\hat{\tau}^2$ -relaxation by cooling, compressing, and aging small molecular glass-formers. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2643-2651.	3.1	61
6	Plasticization in Ultrathin Polymer Films: The Role of Supporting Substrate and Annealing. <i>Macromolecules</i> , 2013, 46, 555-561.	4.8	49
7	Two secondary modes in decahydroisoquinoline: Which one is the true Johari Goldstein process?. <i>Journal of Chemical Physics</i> , 2005, 122, 234506.	3.0	48
8	Interfacial and Annealing Effects on Primary $\hat{\tau}^1$ -Relaxation of Ultrathin Polymer Films Investigated at Nanoscale. <i>Macromolecules</i> , 2012, 45, 2138-2144.	4.8	46
9	Genuine Johari-Goldstein $\hat{\tau}^2$ -relaxations in glass-forming binary mixtures. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4643-4648.	3.1	45
10	Dynamics of Hyperbranched Polymers under Confinement: A Dielectric Relaxation Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12387-12398.	8.0	41
11	Viscoelasticity of nanobubble-inflated ultrathin polymer films: Justification by the coupling model. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 214-224.	2.1	39
12	Local dielectric spectroscopy of nanocomposite materials interfaces. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C4D11-C4D17.	1.2	37
13	Effect of Confinement on Structural Relaxation in Ultrathin Polymer Films Investigated by Local Dielectric Spectroscopy. <i>Macromolecules</i> , 2011, 44, 6588-6593.	4.8	37
14	Secondary dynamics in glass formers: Relation with the structural dynamics and the glass transition. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4278-4282.	3.1	32
15	Correlation of structural and Johari-Goldstein relaxations in systems vitrifying along isobaric and isothermal paths. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 205133.	1.8	29
16	Relation between the dispersion of $\hat{\tau}^1$ -relaxation and the time scale of $\hat{\tau}^2$ -relaxation at the glass transition. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3984-3988.	3.1	28
17	Relaxation dynamics intert-butylpyridine/tristyrene mixture investigated by broadband dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 174502.	3.0	27
18	Does the entropy and volume dependence of the structural $\hat{\tau}^1$ -relaxation originate from the Johari-Goldstein $\hat{\tau}^2$ -relaxation?. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 705-711.	3.1	26

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19	The Johari-Goldstein $\beta^2$ -relaxation of glass-forming binary mixtures. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 251-257.	3.1	26
20	Evidences of macromolecular chains confinement of ethylene-propylene copolymer in organophilic montmorillonite nanocomposites. <i>European Polymer Journal</i> , 2008, 44, 1296-1308.	5.4	25
21	Pressure and temperature dependence of structural relaxation dynamics in polymers: a thermodynamic interpretation. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6597-6608.	1.8	23
22	Applications of the rheo-dielectric technique. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4267-4272.	3.1	22
23	Guides to solving the glass transition problem. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 244125.	1.8	22
24	Dynamic Crossover of Water Relaxation in Aqueous Mixtures: Effect of Pressure. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1170-1175.	4.6	22
25	Interfacial effects on the dynamics of ethylene-propylene copolymer nanocomposite with inorganic clays. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 568-573.	3.1	20
26	Effect of temperature and pressure on the structural ( $\beta^{\pm}$ ) and the true Johari-Goldstein ( $\beta^2$ ) relaxation in binary mixtures. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4273-4277.	3.1	16
27	Effect of thermodynamic history on secondary relaxation in the glassy state. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4313-4317.	3.1	15
28	Chemistry of Interfacial Interactions in a LDPE-Based Nanocomposite and Their Effect on the Nanoscale Hybrid Assembling. <i>Macromolecules</i> , 2013, 46, 1563-1572.	4.8	15
29	Origins of the two simultaneous mechanisms causing glass transition temperature reductions in high molecular weight freestanding polymer films. <i>Journal of Chemical Physics</i> , 2014, 140, 074903.	3.0	15
30	Temperature Dependence of the Structural Relaxation Time in Equilibrium below the Nominal $T_g$ : Results from Freestanding Polymer Films. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5608-5614.	2.6	14
31	Electrostatic force microscopy and potentiometry of realistic nanostructured systems. <i>Journal of Applied Physics</i> , 2009, 105, 054301.	2.5	13
32	Relation between configurational entropy and relaxation dynamics of glass-forming systems under volume and temperature reduction. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 753-758.	3.1	13
33	New experimental evidence about secondary processes in phenylphthalein-dimethylether and 1,1'-bis(p-methoxyphenyl)cyclohexane. <i>Journal of Chemical Physics</i> , 2007, 127, 114507.	3.0	12
34	Temperature and pressure dependence of secondary process in an epoxy system. <i>Journal of Chemical Physics</i> , 2011, 134, 044510.	3.0	11
35	A perspective on experimental findings and theoretical explanations of novel dynamics at free surface and in freestanding thin films of polystyrene. <i>Philosophical Magazine</i> , 2016, 96, 854-869.	1.6	11
36	Secondary dielectric relaxation in decahydroisoquinoline-cyclohexane mixture. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4685-4689.	3.1	10

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37	Structure and Dynamics of Biobased Polyester Nanocomposites. <i>Biomacromolecules</i> , 2019, 20, 164-176.	5.4	10
38	Effect of temperature and volume on structural relaxation time: Interpretation in terms of decrease of configurational entropy. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2611-2615.	3.1	8
39	Inter-chain and intra-chain hopping transport in conducting polymers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 148-151.	0.8	7
40	Polarization fluctuations near the glass transition. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4920-4927.	3.1	5
41	Dynamics of poly(vinyl butyral) studied using dielectric spectroscopy and $^1\text{H}$ NMR relaxometry. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31804-31812.	2.8	5
42	Effect of the isobaric and isothermal reductions in excess and configurational entropies on glass-forming dynamics. <i>Philosophical Magazine</i> , 2004, 84, 1513-1519.	1.6	3
43	Unravelling the detailed microstructure of a semiconducting (quasi-metal) soluble polymer incorporating conjugated thienylene methine sequences. <i>Journal of Polymer Science Part A</i> , 2011, 49, 5227-5238.	2.3	1
44	Influence of Molecular Characteristics on Dielectric Relaxation of Propylene Glycol Oligomers. <i>Macromolecular Symposia</i> , 2001, 169, 147-156.	0.7	0
45	Ultrathin polymer films: Interfacial and annealing dependence of confinement effects. , 2012, , .		0