

# Allisson Saiter

## 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.

74 papers	1,734 citations	25 h-index	39 g-index
74 ext. papers	1,913 ext. citations	3.6 avg, IF	4.75 L-index

#	Paper	IF	Citations
74	Impact of chirality on the amorphous state of conglomerate forming systems: a case study of -acetyl- $\beta$ -methylbenzylamine. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 24282-24293	3.6	0
73	Assessment of Graphene Oxide and Nanoclay Based Hybrid Filler in Chlorobutyl-Natural Rubber Blend for Advanced Gas Barrier Applications. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
72	Influence of strain rate and Sn in solid solution on the grain refinement and crystalline defect density in severely deformed Cu. <i>Materials Today Communications</i> , <b>2021</b> , 26, 101746	2.5	0
71	Confinement effects at nanoscale in natural rubber composites: Influence on macroscopic properties. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49838	2.9	6
70	Promoting Interfacial Interactions with the Addition of Lignin in Poly(Lactic Acid) Hybrid Nanocomposites. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
69	Nanoscale Crystallization Mechanisms in a GeSSbCsCl Glass Ceramic and Relationships with Mechanical and Optical Properties. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4196-4204	3.8	1
68	Physical aging of selenium glass: Assessing the double mechanism of equilibration and the crystallization process. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 570, 121013	3.9	5
67	Quantifying morphological and mechanical properties of thermoplastics elastomers by selective localization of nanofillers with different geometries. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 629, 127365	5.1	1
66	Role of protic ionic liquid concentration in proton conducting polymer electrolytes for improved electrical and thermal properties. <i>Materials Research Express</i> , <b>2020</b> , 7, 064005	1.7	8
65	Distinct dynamics of structural relaxation in the amorphous phase of poly(l-lactic acid) revealed by quiescent crystallization. <i>Soft Matter</i> , <b>2020</b> , 16, 3224-3233	3.6	8
64	Effects of organo-LDH dispersion on thermal stability, crystallinity and mechanical features of PLA. <i>Polymer</i> , <b>2020</b> , 208, 122952	3.9	4
63	Influence of reduced graphene oxide on flow behaviour, glass transition temperature and secondary crystallinity of plasticized poly(vinyl chloride).. <i>RSC Advances</i> , <b>2020</b> , 10, 29247-29256	3.7	5
62	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
61	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
60	Physical ageing of semi-crystalline PLLA: Role of the differently constrained amorphous fractions <b>2018</b> ,		4
59	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
58	Glass transition of anhydrous starch by fast scanning calorimetry. <i>Carbohydrate Polymers</i> , <b>2017</b> , 173, 77-83	10.3	20

57	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
56	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
55	Multiwalled carbon nanotube promotes crystallisation while preserving co-continuous phase morphology of polycarbonate/polypropylene blend. <i>Polymer Testing</i> , <b>2017</b> , 64, 1-11	4.5	15
54	Contribution of the rigid amorphous fraction to physical ageing of semi-crystalline PLLA. <i>Polymer</i> , <b>2017</b> , 125, 241-253	3.9	37
53	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
52	Influence of temperature on the confinement effects of micro and nano level graphite filled poly(isoprene-co-isobutylene) composites. <i>Journal of Polymer Research</i> , <b>2016</b> , 23, 1	2.7	4
51	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
50	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
49	Quasi-isothermal and heatcool protocols from MT-DSC. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 381-388	4.1	5
48	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
47	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
46	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
45	Molecular dynamics in electrospun amorphous plasticized polylactide fibers. <i>Polymer</i> , <b>2015</b> , 73, 68-78	3.9	26
44	Structural Dependence of the Molecular Mobility in the Amorphous Fractions of Polylactide. <i>Macromolecules</i> , <b>2014</b> , 47, 5186-5197	5.5	54
43	Evidence of cooperativity length anisotropy in drawn polymers. <i>Materials Letters</i> , <b>2014</b> , 128, 12-14	3.3	7
42	Effect of Mechanical Compression and Hydrostatic Pressure on the Molecular Mobility of Poly(lactic acid). <i>Macromolecular Symposia</i> , <b>2014</b> , 341, 26-33	0.8	1
41	Complex structural rearrangements in As-Se glasses. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 054505	3.9	16
40	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

39	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
38	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
37	Effect of molecular interactions on the performance of poly(isobutylene-co-isoprene)/graphene and clay nanocomposites. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 1729-1740	2.4	63
36	Size of the cooperative rearranging regions vs. fragility in complex glassy systems: Influence of the structure and the molecular interactions. <i>Physica B: Condensed Matter</i> , <b>2013</b> , 425, 83-89	2.8	22
35	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
34	Is the configurational entropic model able to predict the final equilibrium state reached by Se glasses after very long ageing durations?. <i>Philosophical Magazine</i> , <b>2013</b> , 93, 2932-2946	1.6	8
33	Cooperativity length scale in nanocomposites: interfacial and confinement effects. <i>Physical Review E</i> , <b>2013</b> , 88, 042605	2.4	32
32	Fragility and cooperativity concepts in hydrogen-bonded organic glasses. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 3561-3565	2.8	12
31	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
30	Temperature dependence of structural relaxation time in drawn polymers: Which is the role of cooperativity? <b>2012</b> ,		4
29	Cooperativity length evolution during crystallization of poly(lactic acid). <i>European Polymer Journal</i> , <b>2011</b> , 47, 2414-2423	5.2	56
28	Gradient of molecular dynamics at the glass transition of PETg/montmorillonite nanocomposites. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 2908-2913	2.8	9
27	Light-assisted physical aging in chalcogenide glasses: Dependence on the wavelength of incident photons. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2420-2427	2.5	20
26	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
25	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
24	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
23	Relaxation map of PETg-montmorillonite composites: Nanofiller concentration influence on $\alpha$ and $\beta$ relaxation processes. <i>Polymer Engineering and Science</i> , <b>2009</b> , 49, 836-843	2.3	17
22	Water barrier properties of polyamide 12/montmorillonite nanocomposite membranes: Structure and volume fraction effects. <i>Journal of Membrane Science</i> , <b>2009</b> , 328, 186-204	9.6	157

21	Cooperative rearranging region size and free volume in As-Se glasses. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 075105	1.8	14
20	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
19	Experimental verification of the reversibility window concept in binary As-Se glasses subjected to a long-term physical aging. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	60
18	Cooperative rearranging region size in semi-crystalline poly(l-lactic acid). <i>Polymer</i> , <b>2008</b> , 49, 3130-3135	3.9	69
17	Evidence of Cooperative Rearranging Region size anisotropy for drawn PET. <i>European Polymer Journal</i> , <b>2008</b> , 44, 3377-3384	5.2	37
16	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
15	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
14	Mean-coordination number dependence of the fragility in GeSe <sub>3</sub> glass-forming liquids. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 389, 275-280	2.8	21
13	Characterisation of structural relaxation phenomena in polymeric materials from thermal analysis investigations. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2007</b> , 88, 483-488	4.1	29
12	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
11	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
10	Fragility [Density of state and relaxation processes in polymeric materials. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 5067-5071	3.9	4
9	Cooperative rearranging regions in polymeric materials: Relationship with the fragility of glass-forming liquids. <i>European Polymer Journal</i> , <b>2006</b> , 42, 213-219	5.2	49
8	Influence of the chemical structure on the kinetics of the structural relaxation process of acrylate and methacrylate polymer networks. <i>Colloid and Polymer Science</i> , <b>2005</b> , 283, 711-720	2.4	23
7	Entropic model for the relaxation in vitreous systems. Estimation of uncertainty in the calculation of the conformational relaxation times. <i>Polymer</i> , <b>2004</b> , 45, 2743-2750	3.9	9
6	Cooperativity range and fragility in vitreous polymers. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 345-346, 556-561	3.9	10
5	Entropy and fragility in vitreous polymers. <i>Polymer</i> , <b>2002</b> , 43, 7497-7504	3.9	25
4	Application of random walk model to the glass transition of unsaturated polyester resins cured with different styrene contents. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 307-310, 738-743	3.9	21

3	Thermodynamically Strong and kinetically fragile polymeric glass exemplified by melamine formaldehyde resins. <i>European Polymer Journal</i> , <b>2001</b> , 37, 1083-1090	5.2	25
2	Semi-rigid polyesters analysed using the Strong-fragile concept. <i>Macromolecular Symposia</i> , <b>2001</b> , 174, 165-174	0.8	8
1	Fragility behavior of melamine formaldehyde three dimensional network. <i>Materials Letters</i> , <b>2000</b> , 45, 180-185	3.3	3