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-methylbenzylamine. *Physical Chemistry Chemical Physics*, **2021**, 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. *Nanomaterials*, **2021**, 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. *Materials Today Communications*, **2021**, 26, 101746	2.5	0
71	Confinement effects at nanoscale in natural rubber composites: Influence on macroscopic properties. *Journal of Applied Polymer Science*, **2021**, 138, 49838	2.9	6
70	Promoting Interfacial Interactions with the Addition of Lignin in Poly(Lactic Acid) Hybrid Nanocomposites. *Polymers*, **2021**, 13,	4.5	6
69	Nanoscale Crystallization Mechanisms in a GeSSbCsCl Glass Ceramic and Relationships with Mechanical and Optical Properties. *Journal of Physical Chemistry C*, **2021**, 125, 4196-4204	3.8	1
68	Physical aging of selenium glass: Assessing the double mechanism of equilibration and the crystallization process. *Journal of Non-Crystalline Solids*, **2021**, 570, 121013	3.9	5
67	Quantifying morphological and mechanical properties of thermoplastics elastomers by selective localization of nanofillers with different geometries. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 629, 127365	5.1	1
66	Role of protic ionic liquid concentration in proton conducting polymer electrolytes for improved electrical and thermal properties. *Materials Research Express*, **2020**, 7, 064005	1.7	8
65	Distinct dynamics of structural relaxation in the amorphous phase of poly(l-lactic acid) revealed by quiescent crystallization. *Soft Matter*, **2020**, 16, 3224-3233	3.6	8
64	Effects of organo-LDH dispersion on thermal stability, crystallinity and mechanical features of PLA. *Polymer*, **2020**, 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).. *RSC Advances*, **2020**, 10, 29247-29256	3.7	5
62	Molecular mobility of amorphous N-acetyl-methylbenzylamine and Debye relaxation evidenced by dielectric relaxation spectroscopy and molecular dynamics simulations. *Physical Chemistry Chemical Physics*, **2019**, 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. *International Journal of Pharmaceutics*, **2018**, 540, 11-21	6.5	7
60	Physical ageing of semi-crystalline PLLA: Role of the differently constrained amorphous fractions **2018**,		4
59	Chirality impact on physical ageing: An original case of a small organic molecule. *Materials Letters*, **2018**, 228, 141-144	3.3	3
58	Glass transition of anhydrous starch by fast scanning calorimetry. *Carbohydrate Polymers*, **2017**, 173, 77-83	10.3	20

57	Physical aging in PLA through standard DSC and fast scanning calorimetry investigations. *Thermochimica Acta*, **2017**, 648, 13-22	2.9	33
56	Vitrification of PLA by fast scanning calorimetry: Towards unique glass above critical cooling rate?. *Thermochimica Acta*, **2017**, 658, 47-54	2.9	16
55	Multiwalled carbon nanotube promotes crystallisation while preserving co-continuous phase morphology of polycarbonate/polypropylene blend. *Polymer Testing*, **2017**, 64, 1-11	4.5	15
54	Contribution of the rigid amorphous fraction to physical ageing of semi-crystalline PLLA. *Polymer*, **2017**, 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. *Polymer*, **2017**, 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. *Journal of Polymer Research*, **2016**, 23, 1	2.7	4
51	Correlated and cooperative motions in segmental relaxation: Influence of constitutive unit weight and intermolecular interactions. *Physical Review E*, **2016**, 94, 062502	2.4	3
50	Probing the chain segment mobility at the interface of semi-crystalline polylactide/clay nanocomposites. *European Polymer Journal*, **2016**, 78, 274-289	5.2	36
49	Quasi-isothermal and heat□ool protocols from MT-DSC. *Journal of Thermal Analysis and Calorimetry*, **2015**, 121, 381-388	4.1	5
48	Combining Flash DSC, DSC and broadband dielectric spectroscopy to determine fragility. *Journal of Thermal Analysis and Calorimetry*, **2015**, 121, 453-461	4.1	32
47	Dynamic Heterogeneity and Cooperative Length Scale at Dynamic Glass Transition in Glass Forming Liquids. *Macromolecules*, **2015**, 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?. *Polymer*, **2015**, 76, 213-219	3.9	22
45	Molecular dynamics in electrospun amorphous plasticized polylactide fibers. *Polymer*, **2015**, 73, 68-78	3.9	26
44	Structural Dependence of the Molecular Mobility in the Amorphous Fractions of Polylactide. *Macromolecules*, **2014**, 47, 5186-5197	5.5	54
43	Evidence of cooperativity length anisotropy in drawn polymers. *Materials Letters*, **2014**, 128, 12-14	3.3	7
42	Effect of Mechanical Compression and Hydrostatic Pressure on the Molecular Mobility of Poly(lactic acid). *Macromolecular Symposia*, **2014**, 341, 26-33	0.8	1
41	Complex structural rearrangements in As-Se glasses. *Journal of Chemical Physics*, **2014**, 140, 054505	3.9	16
40	Rigid amorphous fraction versus oriented amorphous fraction in uniaxially drawn polyesters. *European Polymer Journal*, **2014**, 58, 233-244	5.2	16

39	Contribution of chain alignment and crystallization in the evolution of cooperativity in drawn polymers. *Polymer*, **2014**, 55, 2882-2889	3.9	22
38	Evidence of two mobile amorphous phases in semicrystalline polylactide observed from calorimetric investigations. *Polymer Engineering and Science*, **2014**, 54, 1144-1150	2.3	35
37	Effect of molecular interactions on the performance of poly(isobutylene-co-isoprene)/graphene and clay nanocomposites. *Colloid and Polymer Science*, **2013**, 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. *Physica B: Condensed Matter*, **2013**, 425, 83-89	2.8	22
35	Development of poly(isobutylene-co-isoprene)/reduced graphene oxide nanocomposites for barrier, dielectric and sensingapplications. *Materials Letters*, **2013**, 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?. *Philosophical Magazine*, **2013**, 93, 2932-2946	1.6	8
33	Cooperativity length scale in nanocomposites: interfacial and confinement effects. *Physical Review E*, **2013**, 88, 042605	2.4	32
32	Fragility and cooperativity concepts in hydrogen-bonded organic glasses. *Physica B: Condensed Matter*, **2012**, 407, 3561-3565	2.8	12
31	Water barrier properties in biaxially drawn poly(lactic acid) films. *Journal of Physical Chemistry B*, **2012**, 116, 4615-25	3.4	84
30	Temperature dependence of structural relaxation time in drawn polymers: Which is the role of cooperativity? **2012**,		4
29	Cooperativity length evolution during crystallization of poly(lactic acid). *European Polymer Journal*, **2011**, 47, 2414-2423	5.2	56
28	Gradient of molecular dynamics at the glass transition of PETg/Montmorillonite nanocomposites. *Physica B: Condensed Matter*, **2011**, 406, 2908-2913	2.8	9
27	Light-assisted physical aging in chalcogenide glasses: Dependence on the wavelength of incident photons. *Journal of Materials Research*, **2011**, 26, 2420-2427	2.5	20
26	Temperature dependence of the characteristic length scale for glassy dynamics: combination of dielectric and specific heat spectroscopy. *Physical Review E*, **2010**, 81, 041805	2.4	56
25	Physical ageing and molecular mobilities of sulfonated polysulfone for proton exchange membranes. *Thermochimica Acta*, **2010**, 509, 18-23	2.9	24
24	Amorphous phase dynamics at the glass transition in drawn semi-crystalline polyester. *Journal of Thermal Analysis and Calorimetry*, **2009**, 97, 541-546	4.1	24
23	Relaxation map of PETg-montmorillonite composites: Nanofiller concentration influence on β and γ relaxation processes. *Polymer Engineering and Science*, **2009**, 49, 836-843	2.3	17
22	Water barrier properties of polyamide 12/montmorillonite nanocomposite membranes: Structure and volume fraction effects. *Journal of Membrane Science*, **2009**, 328, 186-204	9.6	157

21	Cooperative rearranging region size and free volume in As-Se glasses. *Journal of Physics Condensed Matter*, **2009**, 21, 075105	1.8	14
20	Average size of cooperative rearranging regions and fragility in a drawn poly(ethylene terephthalate) at the glass transition. *Journal of Non-Crystalline Solids*, **2008**, 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. *Physical Review B*, **2008**, 78,	3.3	60
18	Cooperative rearranging region size in semi-crystalline poly(l-lactic acid). *Polymer*, **2008**, 49, 3130-3135	3.9	69
17	Evidence of Cooperative Rearranging Region size anisotropy for drawn PET. *European Polymer Journal*, **2008**, 44, 3377-3384	5.2	37
16	Glass Transition Temperature and Value of the Relaxation Time at Tg in Vitreous Polymers. *Macromolecular Symposia*, **2007**, 258, 152-161	0.8	32
15	Cooperative rearranging region size determination by temperature modulated DSC in semi-crystalline poly(l-lactide acid). *European Polymer Journal*, **2007**, 43, 4675-4682	5.2	47
14	Mean-coordination number dependence of the fragility in GeSeIn glass-forming liquids. *Physica B: Condensed Matter*, **2007**, 389, 275-280	2.8	21
13	Characterisation of structural relaxation phenomena in polymeric materials from thermal analysis investigations. *Journal of Thermal Analysis and Calorimetry*, **2007**, 88, 483-488	4.1	29
12	Relaxation in poly-(ethylene terephthalate glycol)/montmorillonite nanocomposites studied by dielectric methods. *Journal of Non-Crystalline Solids*, **2007**, 353, 4334-4338	3.9	25
11	Crystallisation and molecular mobilities in liquid and glassy states of a MXD6 polyamide. *Composite Interfaces*, **2006**, 13, 403-413	2.3	2
10	Fragility Density of state and relaxation processes in polymeric materials. *Journal of Non-Crystalline Solids*, **2006**, 352, 5067-5071	3.9	4
9	Cooperative rearranging regions in polymeric materials: Relationship with the fragility of glass-forming liquids. *European Polymer Journal*, **2006**, 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. *Colloid and Polymer Science*, **2005**, 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. *Polymer*, **2004**, 45, 2743-2750	3.9	9
6	Cooperativity range and fragility in vitreous polymers. *Journal of Non-Crystalline Solids*, **2004**, 345-346, 556-561	3.9	10
5	Entropy and fragility in vitreous polymers. *Polymer*, **2002**, 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. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 738-743	3.9	21

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