

## List of Publications by Citations

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

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 74 | 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       |
| 73 | 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        |
| 72 | 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        |
| 71 | Cooperative rearranging region size in semi-crystalline poly(l-lactic acid). <i>Polymer</i> , <b>2008</b> , 49, 3130-3135  | 3.9 | 69        |
| 70 | 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        |
| 69 | 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        |
| 68 | Cooperativity length evolution during crystallization of poly(lactic acid). <i>European Polymer Journal</i> , <b>2011</b> , 47, 2414-2423  | 5.2 | 56        |
| 67 | 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        |
| 66 | Structural Dependence of the Molecular Mobility in the Amorphous Fractions of Polylactide. <i>Macromolecules</i> , <b>2014</b> , 47, 5186-5197   | 5.5 | 54        |
| 65 | 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        |
| 64 | 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        |
| 63 | 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        |
| 62 | 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        |
| 61 | Evidence of Cooperative Rearranging Region size anisotropy for drawn PET. <i>European Polymer Journal</i> , <b>2008</b> , 44, 3377-3384  | 5.2 | 37        |
| 60 | 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        |
| 59 | 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        |
| 58 | 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        |

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| 57 | 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 |
| 56 | Cooperativity length scale in nanocomposites: interfacial and confinement effects. <i>Physical Review E</i> , <b>2013</b> , 88, 042605  | 2.4  | 32 |
| 55 | 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 |
| 54 | 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 |
| 53 | Molecular dynamics in electrospun amorphous plasticized polylactide fibers. <i>Polymer</i> , <b>2015</b> , 73, 68-78  | 3.9  | 26 |
| 52 | 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 |
| 51 | Entropy and fragility in vitreous polymers. <i>Polymer</i> , <b>2002</b> , 43, 7497-7504  | 3.9  | 25 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 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 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Glass transition of anhydrous starch by fast scanning calorimetry. <i>Carbohydrate Polymers</i> , <b>2017</b> , 173, 77-83  | 10.3 | 20 |
| 40 | 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 |

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| 39 | Molecular mobility of amorphous N-acetyl-L-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 |
| 38 | 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 |
| 37 | 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 |
| 36 | Complex structural rearrangements in As-Se glasses. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 054505   | 3.9 | 16 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 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 | 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 |
| 30 | Cooperativity range and fragility in vitreous polymers. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 345-346, 556-561  | 3.9 | 10 |
| 29 | 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  |
| 28 | 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  |
| 27 | 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  |
| 26 | 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  |
| 25 | 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  |
| 24 | Semi-rigid polyesters analysed using the 'strong-fragile' concept. <i>Macromolecular Symposia</i> , <b>2001</b> , 174, 165-174   | 0.8 | 8  |
| 23 | 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  |
| 22 | Evidence of cooperativity length anisotropy in drawn polymers. <i>Materials Letters</i> , <b>2014</b> , 128, 12-14   | 3.3 | 7  |

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| 21 | 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 |
| 20 | 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 |
| 19 | Promoting Interfacial Interactions with the Addition of Lignin in Poly(Lactic Acid) Hybrid Nanocomposites. <i>Polymers</i> , <b>2021</b> , 13,  | 4.5 | 6 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | Temperature dependence of structural relaxation time in drawn polymers: Which is the role of cooperativity? <b>2012</b> ,   |     | 4 |
| 12 | 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 |
| 11 | 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 |
| 10 | Physical ageing of semi-crystalline PLLA: Role of the differently constrained amorphous fractions <b>2018</b> ,   |     | 4 |
| 9  | Fragility behavior of melamine formaldehyde three dimensional network. <i>Materials Letters</i> , <b>2000</b> , 45, 180-185   | 3.3 | 3 |
| 8  | 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 |
| 7  | 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 |
| 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  | 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 |
| 4  | 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 |

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|---|--|-----|---|
| 3 | 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 |
| 2 | 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 |
| 1 | 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 |