

Ren Fulchiron

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89
papers

1,730
citations

21
h-index

38
g-index

92
ext. papers

1,941
ext. citations

3.9
avg, IF

4.6
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 89 | Influence of shear on polypropylene crystallization: morphology development and kinetics. <i>Polymer</i> , 2002 , 43, 6931-6942 | 3.9 | 198 |
| 88 | Rheology and applications of highly filled polymers: A review of current understanding. <i>Progress in Polymer Science</i> , 2017 , 66, 22-53 | 29.6 | 182 |
| 87 | Effect of an organo-modified montmorillonite on PLA crystallization and gas barrier properties. <i>Applied Clay Science</i> , 2011 , 53, 58-65 | 5.2 | 143 |
| 86 | Crystallization of Isotactic Polypropylene under High Pressure (I _P Phase). <i>Macromolecules</i> , 2000 , 33, 4138-4145 | 3.5 | 103 |
| 85 | The kinetics of β and α transcrystallization in fibre-reinforced polypropylene. <i>Polymer</i> , 2000 , 41, 7843-7854 | 3.9 | 76 |
| 84 | Nature of contact between polymer and mold in injection molding. Part I: Influence of a non-perfect thermal contact. <i>Polymer Engineering and Science</i> , 2000 , 40, 1682-1691 | 2.3 | 68 |
| 83 | Study and modeling of heat transfer during the solidification of semi-crystalline polymers. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 5417-5430 | 4.9 | 59 |
| 82 | Viscoelasticity of Brownian Carbon Nanotubes in PDMS Semidilute Regime. <i>Macromolecules</i> , 2009 , 42, 1433-1438 | 5.5 | 47 |
| 81 | ANALYSIS OF THE PRESSURE EFFECT ON THE CRYSTALLIZATION KINETICS OF POLYPROPYLENE: DILATOMETRIC MEASUREMENTS AND THERMAL GRADIENT MODELING. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 297-314 | 1.4 | 35 |
| 80 | Aggregation of Carbon Nanotubes in Semidilute Suspension. <i>Macromolecules</i> , 2010 , 43, 1467-1472 | 5.5 | 34 |
| 79 | Deconvolution of polymer melt stress relaxation by the Padé method. <i>Journal of Rheology</i> , 1993 , 37, 17-34 | 4.1 | 34 |
| 78 | Shear induced crystallization of poly(m-xylylene adipamide) with and without nucleating additives. <i>Polymer</i> , 2007 , 48, 3273-3285 | 3.9 | 31 |
| 77 | Morphology development in immiscible polymer blends during crystallization of the dispersed phase under shear flow. <i>Polymer</i> , 2002 , 43, 3311-3321 | 3.9 | 29 |
| 76 | Rheology and gelation kinetics of PVC plastisols. <i>Rheologica Acta</i> , 2007 , 46, 825-838 | 2.3 | 28 |
| 75 | Effect of molecular architecture on quiescent and shear-induced crystallization of polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1597-1607 | 2.6 | 28 |
| 74 | On the use of the model proposed by Leonov for the explanation of a secondary plateau of the loss modulus in heterogeneous polymer/filler systems with agglomerates. <i>Rheologica Acta</i> , 2010 , 49, 513-527 | 2.3 | 27 |
| 73 | Controlled shear-induced molecular orientation and crystallization in polypropylene/talc microcomposites [Effects of the talc nature. <i>Polymer</i> , 2013 , 54, 2764-2775 | 3.9 | 26 |

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| 72 | Influence of film processing conditions on the morphology of polyamide 6: Consequences on water and ethanol sorption properties. <i>Journal of Membrane Science</i> , 2012 , 415-416, 670-680 | 9.6 | 26 |
| 71 | Nature of contact between polymer and mold in injection molding. Part II: Influence of mold deflection on pressure history and shrinkage. <i>Polymer Engineering and Science</i> , 2000 , 40, 1692-1700 | 2.3 | 26 |
| 70 | Silicone rheological behavior modification for 3D printing: Evaluation of yield stress impact on printed object properties. <i>Additive Manufacturing</i> , 2019 , 28, 50-57 | 6.1 | 22 |
| 69 | Chemical modification routes of synthetic talc: Influence on its nucleating power and on its dispersion state. <i>Applied Clay Science</i> , 2015 , 109-110, 107-118 | 5.2 | 21 |
| 68 | Dielectric studies of hyperbranched aromatic polyamide and polyamide-6,6 blends. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1522-1537 | 2.9 | 20 |
| 67 | Influence of Morphology on PTC in Conducting Polypropylene-Silver Composites. <i>Macromolecular Symposia</i> , 2006 , 233, 246-253 | 0.8 | 19 |
| 66 | Internal Reorganization of Agglomerates as an Explanation of Energy Dissipation at Very Low Strain for Heterogeneous Polymer Systems. <i>Macromolecular Theory and Simulations</i> , 2012 , 21, 113-119 | 1.5 | 16 |
| 65 | The crystallization kinetics of polyamide 66 in non-isothermal and isothermal conditions: Effect of nucleating agent and pressure. <i>Polymer Engineering and Science</i> , 2000 , 40, 2058-2071 | 2.3 | 16 |
| 64 | Determination of the elongational behavior of polypropylene melts from transient shear experiments using Wagner's model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1993 , 48, 49-61 | 2.7 | 16 |
| 63 | Rheology of polypropylene filled with short-glass fibers: From low to concentrated filled composites. <i>European Polymer Journal</i> , 2017 , 93, 167-181 | 5.2 | 15 |
| 62 | Influence of montmorillonite and film processing conditions on the morphology of polyamide 6: Effect on ethanol and toluene barrier properties. <i>Journal of Membrane Science</i> , 2014 , 450, 487-498 | 9.6 | 13 |
| 61 | Extrudate swell and isothermal melt spinning analysis of linear low density polyethylene using the Wagner constitutive equation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1997 , 69, 113-136 | 2.7 | 13 |
| 60 | A simple method for tuning the glass transition process in inorganic phosphate glasses. <i>Scientific Reports</i> , 2015 , 5, 8369 | 4.9 | 12 |
| 59 | Hyper-Viscoelastic Behavior of Healthy Abdominal Aorta. <i>Irbm</i> , 2016 , 37, 158-164 | 4.8 | 12 |
| 58 | Composition effects of thermoplastic segmented polyurethanes on their nanostructuring kinetics with or without preshear. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 801-811 | 2.6 | 12 |
| 57 | Crystallization from the melt at high supercooling in finely dispersed polymer blends: DSC and rheological analysis. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998 , 36, 2573-2585 | 2.6 | 12 |
| 56 | Correlations between relaxation time spectrum and melt spinning behavior of polypropylene. 1: Calculation of the relaxation spectrum as a log-normal distribution and influence of the molecular parameters. <i>Polymer Engineering and Science</i> , 1995 , 35, 513-517 | 2.3 | 12 |
| 55 | Effect of the naphthenic oil and precipitated silica on the crystallization of ultrahigh-molecular-weight polyethylene. <i>Polymer</i> , 2016 , 97, 63-68 | 3.9 | 12 |

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| 54 | Polypropylene/layered double hydroxide nanocomposites: Synergistic effect of designed filler modification and compatibilizing agent on the morphology, thermal, and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 782-794 | 2.6 | 11 |
| 53 | Shear-induced structuring kinetics in thermoplastic segmented polyurethanes monitored by rheological tools. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 190-201 | 2.6 | 11 |
| 52 | Effect of nucleating additives on crystallization of poly(m-xylylene adipamide). <i>Polymer Engineering and Science</i> , 2007 , 47, 365-373 | 2.3 | 11 |
| 51 | In-situ monitoring of the non-isothermal crystallization of polymers by dielectric spectroscopy. <i>Polymer Engineering and Science</i> , 2002 , 42, 1159-1170 | 2.3 | 11 |
| 50 | Effect of the pressure on the crystallization behavior of polyamide 66. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 1021-1029 | 2.9 | 11 |
| 49 | Crystallization kinetics of poly-(lactic acid) with and without talc: Optical microscopy and calorimetric analysis 2014 , | | 10 |
| 48 | Converging flow analysis, entrance pressure drops, and vortex sizes: Measurements and calculated values. <i>Polymer Engineering and Science</i> , 2001 , 41, 2095-2107 | 2.3 | 10 |
| 47 | Synergistic effects of shear flow and nucleating agents on the crystallization mechanisms of Poly (Lactic Acid). <i>Journal of Polymer Research</i> , 2017 , 24, 1 | 2.7 | 9 |
| 46 | Zirconia based feedstocks: Influence of particle surface modification on the rheological properties. <i>Ceramics International</i> , 2017 , 43, 16950-16956 | 5.1 | 9 |
| 45 | Relaxation of loose agglomerates of magnesium hydroxide in a polymer melt. <i>Polymer</i> , 2012 , 53, 5560-5567 | 3.67 | 9 |
| 44 | Influence of ZrP fillers and process conditions on the morphology and the gas barrier properties of filled polyamide 6 films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1734-1746 | 2.6 | 9 |
| 43 | Structure and dynamics of melt poly(ϵ -caprolactone) from inverse rheological calculation. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 479-490 | 2.6 | 9 |
| 42 | Correlations between relaxation time spectrum and melt spinning behavior of polypropylene. II: Melt spinning simulation from relaxation time spectrum. <i>Polymer Engineering and Science</i> , 1995 , 35, 518-527 | 2.3 | 9 |
| 41 | Morphological and rheological properties of zirconia filled polyethylene. <i>Polymer</i> , 2017 , 132, 174-179 | 3.9 | 8 |
| 40 | Static and shear induced crystallization of glass fiber reinforced poly(m-xylylene adipamide) with nucleating additives. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 2982-2992 | 2.6 | 8 |
| 39 | In-line monitoring of the injection molding process by dielectric spectroscopy. <i>Polymer Engineering and Science</i> , 2002 , 42, 1171-1180 | 2.3 | 8 |
| 38 | A quantitative approach to assess high temperature flow properties of a PA 12 powder for laser sintering. <i>Additive Manufacturing</i> , 2020 , 33, 101143 | 6.1 | 7 |
| 37 | Evolution of Poly(propylene) Morphology in the Rubbery State under Uniaxial Strain. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 165-177 | 3.9 | 7 |

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| 36 | Analysis of the influence of polymer viscosity on the dispersion of magnesium hydroxide in a polyolefin matrix. <i>Rheologica Acta</i> , 2012 , 51, 235-247 | 2.3 | 7 |
| 35 | Erasure of the processing effects in polyamide 6 based cast films by the introduction of montmorillonite: Effect on water and oxygen transport properties. <i>Journal of Membrane Science</i> , 2014 , 456, 11-20 | 9.6 | 7 |
| 34 | Rheology of physically evolving suspensions. <i>Rheologica Acta</i> , 2009 , 48, 135-149 | 2.3 | 6 |
| 33 | Viscoelasticity and mechanical properties of reactive PVC plastisols. <i>Polymer Engineering and Science</i> , 2009 , 49, 1089-1098 | 2.3 | 6 |
| 32 | Effects of the crystallinity on the β -relaxation of poly(ethylene terephthalate). <i>Acta Polymerica</i> , 1993 , 44, 313-315 | | 6 |
| 31 | High Impact Polystyrene/CNT nanocomposites: Application of volume segregation strategy and behavior under extensional deformation. <i>Polymer</i> , 2018 , 157, 156-165 | 3.9 | 6 |
| 30 | Polyamide-6 structuration induced by a chemical reaction with a polyether triamine in the molten state. <i>Polymer</i> , 2019 , 172, 339-354 | 3.9 | 5 |
| 29 | Condensed Mode Cooling for Ethylene Polymerization: Part V Reduction of the Crystallization Rate of HDPE in the Presence of Induced Condensing Agents. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1800563 | 2.6 | 5 |
| 28 | Identifying Hyper-Viscoelastic Model Parameters from an Inflation-Extension Test and Ultrasound Images. <i>Experimental Mechanics</i> , 2015 , 55, 1353-1366 | 2.6 | 5 |
| 27 | An original combined method for electrical conductivity measurement of polymer composites under extensional deformation. <i>Journal of Rheology</i> , 2017 , 61, 845-857 | 4.1 | 5 |
| 26 | Application of the rubber elasticity theory to the co-crosslinking of ethylene vinyl acetate and ethylene methyl acrylate copolymers by transesterification. <i>Polymer</i> , 1993 , 34, 1975-1978 | 3.9 | 5 |
| 25 | Structuring of non-Brownian ferrite particles in molten polypropylene: Viscoelastic analysis. <i>Journal of Rheology</i> , 2016 , 60, 1245-1255 | 4.1 | 5 |
| 24 | An Emulsion Approach to Resolve the Paradox of 3D Printing of Very Soft Silicones. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901080 | 6.8 | 4 |
| 23 | Elongational behavior of amorphous polymers in the vicinity and above the glass transition temperature. <i>Polymer Testing</i> , 2013 , 32, 691-700 | 4.5 | 4 |
| 22 | Chitosan solutions as injectable systems for dermal filler applications: Rheological characterization and biological evidence. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 2596-9 | 0.9 | 4 |
| 21 | Squeeze flow induced crystallization monitoring in polymers. <i>Polymer Testing</i> , 2011 , 30, 760-764 | 4.5 | 4 |
| 20 | Correlation between structural features and mechanical properties of boron nitride fibres derived from alkylaminoborazines. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 157-162 | 6 | 4 |
| 19 | Combined roles of precipitated silica and porosity on electrical properties of battery separators. <i>Materials Chemistry and Physics</i> , 2019 , 223, 479-485 | 4.4 | 4 |

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| 18 | A model for the electrical conductivity variation of molten polymer filled with carbon nanotubes under extensional deformation. <i>Composites Science and Technology</i> , 2018 , 168, 111-117 | 8.6 | 4 |
| 17 | Effect of a post-annealing process on microstructure and mechanical properties of high-density polyethylene/silica nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 535-546 | 2.6 | 3 |
| 16 | Linear and non-linear nature of the flow of polypropylene filled with ferrite particles: from low to concentrated composites. <i>Rheologica Acta</i> , 2017 , 56, 635-648 | 2.3 | 3 |
| 15 | A thermomechanical modeling approach of the structural changes in semi-crystalline polymers under elongational strain. <i>Journal of Materials Science</i> , 2014 , 49, 433-440 | 4.3 | 3 |
| 14 | In situ generation of high aspect ratio silica particles in polypropylene. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 63, 85-94 | 2.3 | 3 |
| 13 | Simultaneous dielectric and dynamic mechanical measurements on PVDF in the molten state: Study of the linear/nonlinear viscoelastic transition. <i>Journal of Rheology</i> , 2003 , 47, 631-642 | 4.1 | 3 |
| 12 | Toward forced assembly of in situ low-density polyethylene composites reinforced with low-Tg phosphate glass fibers: Effects of matrix crystallization and shear deformation. <i>Polymer Engineering and Science</i> , 2012 , 52, 2090-2098 | 2.3 | 2 |
| 11 | Electrical conductivity under shear flow of molten polyethylene filled with carbon nanotubes: Experimental and modeling. <i>Polymer Engineering and Science</i> , 2021 , 61, 1129-1138 | 2.3 | 2 |
| 10 | Migration of additive molecules in a polymer filament obtained by melt spinning: Influence of the fiber processing steps 2015 , | | 1 |
| 9 | Modelling Surface Properties of Linear Amorphous Polymers. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 629, 1 | | 1 |
| 8 | A novel approach to the study of extensional flow-induced crystallization. <i>Polymer Testing</i> , 2021 , 96, 107060 | 4.5 | 1 |
| 7 | Determination of viscosity average molar masses of polyethylene in a wide range using rheological measurements with a harmless solvent. <i>International Journal of Polymer Analysis and Characterization</i> , 2021 , 26, 630-640 | 1.7 | 1 |
| 6 | Rheology and crystallization behavior of polypropylene and high-density polyethylene in the presence of a low molar mass polyethylene. <i>Polymer Crystallization</i> , 2019 , 2, e10078 | 0.9 | 0 |
| 5 | Dielectric studies of PVDF crystallization. Application to in-situ monitoring in injection molding. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2001 , 8, 911-916 | 2.3 | 0 |
| 4 | Recyclability of Opaque PET from High Speed Melt Spinning: Determination of the Structures and Properties of Filaments. <i>Polymers</i> , 2022 , 14, 2235 | 4.5 | 0 |
| 3 | Structure Development of Biodegradable Polymers: Crystallization of PLA. <i>Key Engineering Materials</i> , 2013 , 554-557, 1628-1633 | 0.4 | |
| 2 | Phase Morphology and Solidification under Shear in Immiscible Polymer Blends 2005 , 237-271 | | |
| 1 | Enhancing the Yield Stress in Liquid Polydimethylsiloxane to Allow Its 3D Printing: Hydrogels as Removable Fillers. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000553 | 3.9 | |

