

Ren Fulchiron

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.

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	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
88	A novel approach to the study of extensional flow-induced crystallization. <i>Polymer Testing</i> , 2021 , 96, 107060	4.5	1
87	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	
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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}	2.6	3
78	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
77	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
76	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
75	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
74	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
73	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

72	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
71	Zirconia based feedstocks: Influence of particle surface modification on the rheological properties. <i>Ceramics International</i> , 2017 , 43, 16950-16956	5.1	9
70	Morphological and rheological properties of zirconia filled polyethylene. <i>Polymer</i> , 2017 , 132, 174-179	3.9	8
69	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
68	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
67	Hyper-Viscoelastic Behavior of Healthy Abdominal Aorta. <i>Irbm</i> , 2016 , 37, 158-164	4.8	12
66	Structuring of non-Brownian ferrite particles in molten polypropylene: Viscoelastic analysis. <i>Journal of Rheology</i> , 2016 , 60, 1245-1255	4.1	5
65	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
64	A simple method for tuning the glass transition process in inorganic phosphate glasses. <i>Scientific Reports</i> , 2015 , 5, 8369	4.9	12
63	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
62	Identifying Hyper-Viscoelastic Model Parameters from an Inflation-Extension Test and Ultrasound Images. <i>Experimental Mechanics</i> , 2015 , 55, 1353-1366	2.6	5
61	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
60	Migration of additive molecules in a polymer filament obtained by melt spinning: Influence of the fiber processing steps 2015 ,		1
59	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, 2534-2539	0.9	4
58	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
57	Crystallization kinetics of poly-(lactic acid) with and without talc: Optical microscopy and calorimetric analysis 2014 ,		10
56	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
55	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

54	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
53	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
52	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
51	Structure Development of Biodegradable Polymers: Crystallization of PLA. <i>Key Engineering Materials</i> , 2013 , 554-557, 1628-1633	0.4	
50	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
49	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
48	Relaxation of loose agglomerates of magnesium hydroxide in a polymer melt. <i>Polymer</i> , 2012 , 53, 5560-5567	5.67	9
47	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
46	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
45	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
44	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
43	Squeeze flow induced crystallization monitoring in polymers. <i>Polymer Testing</i> , 2011 , 30, 760-764	4.5	4
42	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
41	Aggregation of Carbon Nanotubes in Semidilute Suspension. <i>Macromolecules</i> , 2010 , 43, 1467-1472	5.5	34
40	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
39	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
38	Rheology of physically evolving suspensions. <i>Rheologica Acta</i> , 2009 , 48, 135-149	2.3	6
37	Viscoelasticity and mechanical properties of reactive PVC plastisols. <i>Polymer Engineering and Science</i> , 2009 , 49, 1089-1098	2.3	6

36	Viscoelasticity of Brownian Carbon Nanotubes in PDMS Semidilute Regime. <i>Macromolecules</i> , 2009 , 42, 1433-1438	5.5	47
35	Influence of BzrP 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
34	Shear induced crystallization of poly(m-xylylene adipamide) with and without nucleating additives. <i>Polymer</i> , 2007 , 48, 3273-3285	3.9	31
33	Effect of nucleating additives on crystallization of poly(m-xylylene adipamide). <i>Polymer Engineering and Science</i> , 2007 , 47, 365-373	2.3	11
32	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
31	Rheology and gelation kinetics of PVC plastisols. <i>Rheologica Acta</i> , 2007 , 46, 825-838	2.3	28
30	Influence of Morphology on PTC in Conducting Polypropylene-Silver Composites. <i>Macromolecular Symposia</i> , 2006 , 233, 246-253	0.8	19
29	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
28	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
27	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
26	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
25	Phase Morphology and Solidification under Shear in Immiscible Polymer Blends 2005 , 237-271		
24	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
23	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
22	In-line monitoring of the injection molding process by dielectric spectroscopy. <i>Polymer Engineering and Science</i> , 2002 , 42, 1171-1180	2.3	8
21	Influence of shear on polypropylene crystallization: morphology development and kinetics. <i>Polymer</i> , 2002 , 43, 6931-6942	3.9	198
20	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
19	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

18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	The kinetics of β and α transcrystallization in fibre-reinforced polypropylene. <i>Polymer</i> , 2000 , 41, 7843-7854	3.9	76
10	Modelling Surface Properties of Linear Amorphous Polymers. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 629, 1		1
9	Crystallization of Isotactic Polypropylene under High Pressure (β Phase). <i>Macromolecules</i> , 2000 , 33, 4138-4145	4.5	103
8	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
7	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
6	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
5	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
4	Deconvolution of polymer melt stress relaxation by the Pad \hat{u} pllace method. <i>Journal of Rheology</i> , 1993 , 37, 17-34	4.1	34
3	Effects of the crystallinity on the β relaxation of poly(ethylene terephthalate). <i>Acta Polymerica</i> , 1993 , 44, 313-315		6
2	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
1	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

