Guillaume Miquelard-Garnier

List of Publications by Year
in descending order

39 papers	1,090 citations	471509 17 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	1295 citing authors

#	Article	IF	Citations
1	Double dynamic hydrogels formed by wormlike surfactant micelles and cross-linked polymer. Journal of Colloid and Interface Science, 2022, 611, 46-60.	9.4	13
2	Dewetting Dynamics of Sheared Thin Polymer Films: An Experimental Study. ACS Macro Letters, 2022, 11, 422-427.	4.8	4
3	Crosslinked Polyethylene (XLPE) Recycling via Foams. Polymers, 2022, 14, 2589.	4.5	6
4	Structural and Barrier Properties of Compatibilized PE/PA6 Multinanolayer Films. Membranes, 2021, 11, 75.	3.0	7
5	3D Printingâ€Enabled Nanoparticle Alignment: A Review of Mechanisms and Applications. Small, 2021, 17, e2100817.	10.0	61
6	3D printing for polymer/particle-based processing: A review. Composites Part B: Engineering, 2021, 223, 109102.	12.0	129
7	Dewetting of a thin polymer film under shear. Polymer, 2021, 235, 124283.	3.8	4
8	Dual Transient Networks of Polymer and Micellar Chains: Structure and Viscoelastic Synergy. Polymers, 2021, 13, 4255.	4.5	7
9	Elastic Properties of Polychloroprene Rubbers in Tension and Compression during Ageing. Polymers, 2020, 12, 2354.	4.5	20
10	Modeling of the rheological properties of multinanolayer films in the presence of compatibilized interphase. Journal of Rheology, 2020, 64, 981-989.	2.6	5
11	Microstructure-mechanical properties relationships in vibration welded glass-fiber-reinforced polyamide 66: A high-resolution X-ray microtomography study. Polymer Testing, 2020, 85, 106454.	4.8	19
12	Nanorheology with a Conventional Rheometer: Probing the Interfacial Properties in Compatibilized Multinanolayer Polymer Films. ACS Macro Letters, 2019, 8, 1309-1315.	4.8	10
13	Impact of water and thermal induced crystallizations in a PC/MXD6 multilayer film on barrier properties. European Polymer Journal, 2019, 111, 152-160.	5.4	10
14	Breakup behavior of nanolayers in polymeric multilayer systems â€" Creation of nanosheets and nanodroplets. Polymer, 2018, 143, 19-27.	3.8	25
15	From equilibrium lamellae to out-of-equilibrium cylinders in triblock copolymer nanolayers obtained via multilayer coextrusion. Polymer, 2018, 136, 27-36.	3.8	6
16	Self-assembly of thermally oxidized triblock terpolymers. AIP Conference Proceedings, 2018, , .	0.4	0
17	Combined compatibilization and plasticization effect of low molecular weight poly(lactic acid) in poly(lactic acid)/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) blends. EXPRESS Polymer Letters, 2018, 12, 114-125.	2.1	14
18	Influence of outer-layer finite-size effects on the dewetting dynamics of a thin polymer film embedded in an immiscible matrix. Soft Matter, 2018, 14, 6256-6263.	2.7	7

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19	Nanostructuration effect on the mechanical properties of PMMA toughened by a triblock acrylate copolymer using multilayer coextrusion. Polymer, 2018, 149, 124-133.	3.8	17
20	Existence of a Critical Layer Thickness in PS/PMMA Nanolayered Films. Macromolecules, 2017, 50, 4064-4073.	4.8	40
21	Effect of thermal oxidation on the self-assembly of triblock terpolymers. Polymer Degradation and Stability, 2017, 146, 229-239.	5.8	0
22	Confinement effect in PC/MXD6 multilayer films: Impact of the microlayered structure on water and gas barrier properties. Journal of Membrane Science, 2017, 525, 135-145.	8.2	31
23	Evaluation of morphological representative sample sizes for nanolayered polymer blends. Journal of Microscopy, 2016, 264, 48-58.	1.8	19
24	Beware of the Flory parameter to characterize polymer-polymer interactions: A critical reexamination of the experimental literature. European Polymer Journal, 2016, 84, 111-124.	5.4	25
25	Controlling the order of triblock copolymer via confinement induced by forced self-assembly. Materials Today Communications, 2016, 6, 37-43.	1.9	10
26	Kinetics of thin polymer film rupture: Model experiments for a better understanding of layer breakups in the multilayer coextrusion process. Polymer, 2016, 90, 156-164.	3.8	17
27	Chemical modification of PDMS surface without impacting the viscoelasticity: Model systems for a better understanding of elastomer/elastomer adhesion and friction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 174-183.	4.7	33
28	Oxidative degradation of polylactide (PLA) and its effects on physical and mechanical properties. European Polymer Journal, 2014, 50, 109-116.	5.4	121
29	Forced assembly by multilayer coextrusion to create oriented graphene reinforced polymer nanocomposites. Polymer, 2014, 55, 248-257.	3.8	65
30	Dispersion of carbon nanotubes in polypropylene via multilayer coextrusion: Influence on the mechanical properties. Polymer, 2013, 54, 4290-4297.	3.8	34
31	<scp>PLA</scp>/<scp>PHBV</scp> Films with Improved Mechanical and Gas Barrier Properties. Macromolecular Materials and Engineering, 2013, 298, 1065-1073.	3.6	87
32	The Effect of Thermoforming of PLA-PHBV Films on the Morphology and Gas Barrier Properties. Key Engineering Materials, 2012, 504-506, 1135-1138.	0.4	8
33	Polymer microlenses for quantifying cell sheet mechanics. Soft Matter, 2010, 6, 398-403.	2.7	8
34	Contact-line mechanics for pattern control. Soft Matter, 2010, 6, 5789.	2.7	41
35	Large strain behaviour of nanostructured polyelectrolyte hydrogels. Polymer, 2009, 50, 481-490.	3.8	47
36	Strain induced clustering in polyelectrolyte hydrogels. Soft Matter, 2008, 4, 1011.	2.7	41

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37	Synthesis and Viscoelastic Properties of Hydrophobically Modified Hydrogels. Macromolecular Symposia, 2007, 256, 189-194.	0.7	14
38	Synthesis and Rheological Behavior of New Hydrophobically Modified Hydrogels with Tunable Properties. Macromolecules, 2006, 39, 8128-8139.	4.8	84
39	Morphology-Crystallinity Relationship in PLA-PHBV Blends Prepared via Extrusion. Key Engineering Materials, 0, 554-557, 1707-1714.	0.4	1