

Guillaume Miquelard-Garnier

List of Publications by Year in descending order

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39
papers

1,090
citations

471509

17
h-index

395702

33
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all docs

39
docs citations

39
times ranked

1295
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printing for polymer/particle-based processing: A review. <i>Composites Part B: Engineering</i> , 2021, 223, 109102.	12.0	129
2	Oxidative degradation of polylactide (PLA) and its effects on physical and mechanical properties. <i>European Polymer Journal</i> , 2014, 50, 109-116.	5.4	121
3	<scp>PLA</scp><scp>PHBV</scp> Films with Improved Mechanical and Gas Barrier Properties. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 1065-1073.	3.6	87
4	Synthesis and Rheological Behavior of New Hydrophobically Modified Hydrogels with Tunable Properties. <i>Macromolecules</i> , 2006, 39, 8128-8139.	4.8	84
5	Forced assembly by multilayer coextrusion to create oriented graphene reinforced polymer nanocomposites. <i>Polymer</i> , 2014, 55, 248-257.	3.8	65
6	3D Printingâ€ Enabled Nanoparticle Alignment: A Review of Mechanisms and Applications. <i>Small</i> , 2021, 17, e2100817.	10.0	61
7	Large strain behaviour of nanostructured polyelectrolyte hydrogels. <i>Polymer</i> , 2009, 50, 481-490.	3.8	47
8	Strain induced clustering in polyelectrolyte hydrogels. <i>Soft Matter</i> , 2008, 4, 1011.	2.7	41
9	Contact-line mechanics for pattern control. <i>Soft Matter</i> , 2010, 6, 5789.	2.7	41
10	Existence of a Critical Layer Thickness in PS/PMMA Nanolayered Films. <i>Macromolecules</i> , 2017, 50, 4064-4073.	4.8	40
11	Dispersion of carbon nanotubes in polypropylene via multilayer coextrusion: Influence on the mechanical properties. <i>Polymer</i> , 2013, 54, 4290-4297.	3.8	34
12	Chemical modification of PDMS surface without impacting the viscoelasticity: Model systems for a better understanding of elastomer/elastomer adhesion and friction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 174-183.	4.7	33
13	Confinement effect in PC/MXD6 multilayer films: Impact of the microlayered structure on water and gas barrier properties. <i>Journal of Membrane Science</i> , 2017, 525, 135-145.	8.2	31
14	Beware of the Flory parameter to characterize polymer-polymer interactions: A critical reexamination of the experimental literature. <i>European Polymer Journal</i> , 2016, 84, 111-124.	5.4	25
15	Breakup behavior of nanolayers in polymeric multilayer systems â€ Creation of nanosheets and nanodroplets. <i>Polymer</i> , 2018, 143, 19-27.	3.8	25
16	Elastic Properties of Polychloroprene Rubbers in Tension and Compression during Ageing. <i>Polymers</i> , 2020, 12, 2354.	4.5	20
17	Evaluation of morphological representative sample sizes for nanolayered polymer blends. <i>Journal of Microscopy</i> , 2016, 264, 48-58.	1.8	19
18	Microstructure-mechanical properties relationships in vibration welded glass-fiber-reinforced polyamide 66: A high-resolution X-ray microtomography study. <i>Polymer Testing</i> , 2020, 85, 106454.	4.8	19

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19	Kinetics of thin polymer film rupture: Model experiments for a better understanding of layer breakups in the multilayer coextrusion process. <i>Polymer</i> , 2016, 90, 156-164.	3.8	17
20	Nanostructuration effect on the mechanical properties of PMMA toughened by a triblock acrylate copolymer using multilayer coextrusion. <i>Polymer</i> , 2018, 149, 124-133.	3.8	17
21	Synthesis and Viscoelastic Properties of Hydrophobically Modified Hydrogels. <i>Macromolecular Symposia</i> , 2007, 256, 189-194.	0.7	14
22	Combined compatibilization and plasticization effect of low molecular weight poly(lactic acid) in poly(lactic acid)/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) blends. <i>EXPRESS Polymer Letters</i> , 2018, 12, 114-125.	2.1	14
23	Double dynamic hydrogels formed by wormlike surfactant micelles and cross-linked polymer. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 46-60.	9.4	13
24	Controlling the order of triblock copolymer via confinement induced by forced self-assembly. <i>Materials Today Communications</i> , 2016, 6, 37-43.	1.9	10
25	Nanorheology with a Conventional Rheometer: Probing the Interfacial Properties in Compatibilized Multinanolayer Polymer Films. <i>ACS Macro Letters</i> , 2019, 8, 1309-1315.	4.8	10
26	Impact of water and thermal induced crystallizations in a PC/MXD6 multilayer film on barrier properties. <i>European Polymer Journal</i> , 2019, 111, 152-160.	5.4	10
27	Polymer microlenses for quantifying cell sheet mechanics. <i>Soft Matter</i> , 2010, 6, 398-403.	2.7	8
28	The Effect of Thermoforming of PLA-PHBV Films on the Morphology and Gas Barrier Properties. <i>Key Engineering Materials</i> , 2012, 504-506, 1135-1138.	0.4	8
29	Influence of outer-layer finite-size effects on the dewetting dynamics of a thin polymer film embedded in an immiscible matrix. <i>Soft Matter</i> , 2018, 14, 6256-6263.	2.7	7
30	Structural and Barrier Properties of Compatibilized PE/PA6 Multinanolayer Films. <i>Membranes</i> , 2021, 11, 75.	3.0	7
31	Dual Transient Networks of Polymer and Micellar Chains: Structure and Viscoelastic Synergy. <i>Polymers</i> , 2021, 13, 4255.	4.5	7
32	From equilibrium lamellae to out-of-equilibrium cylinders in triblock copolymer nanolayers obtained via multilayer coextrusion. <i>Polymer</i> , 2018, 136, 27-36.	3.8	6
33	Crosslinked Polyethylene (XLPE) Recycling via Foams. <i>Polymers</i> , 2022, 14, 2589.	4.5	6
34	Modeling of the rheological properties of multinanolayer films in the presence of compatibilized interphase. <i>Journal of Rheology</i> , 2020, 64, 981-989.	2.6	5
35	Dewetting of a thin polymer film under shear. <i>Polymer</i> , 2021, 235, 124283.	3.8	4
36	Dewetting Dynamics of Sheared Thin Polymer Films: An Experimental Study. <i>ACS Macro Letters</i> , 2022, 11, 422-427.	4.8	4

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37	Morphology-Crystallinity Relationship in PLA-PHBV Blends Prepared via Extrusion. Key Engineering Materials, 0, 554-557, 1707-1714.	0.4	1
38	Effect of thermal oxidation on the self-assembly of triblock terpolymers. Polymer Degradation and Stability, 2017, 146, 229-239.	5.8	0
39	Self-assembly of thermally oxidized triblock terpolymers. AIP Conference Proceedings, 2018, , .	0.4	0