Luigi Balzano

List of Publications by Citations

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31 1,594 24 31 g-index

31 1,710 4.7 4.47 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
31	Crystallization and dissolution of flow-induced precursors. <i>Physical Review Letters</i> , 2008 , 100, 048302	7.4	161
30	Flow Memory and Stability of Shear-Induced Nucleation Precursors in Isotactic Polypropylene. <i>Macromolecules</i> , 2010 , 43, 9394-9400	5.5	115
29	Polymer crystallization studies under processing-relevant conditions at the SAXS/WAXS DUBBLE beamline at the ESRF. <i>Journal of Applied Crystallography</i> , 2013 , 46, 1681-1689	3.8	102
28	Crystallization and Precursors during Fast Short-Term Shear. <i>Macromolecules</i> , 2009 , 42, 2088-2092	5.5	101
27	Flow Induced Crystallization in Isotactic Polypropylene[1,3:2,4-Bis(3,4-dimethylbenzylidene)sorbitol Blends: Implications on Morphology of Shear and Phase Separation. <i>Macromolecules</i> , 2008 , 41, 399-408	5.5	86
26	Effects of the degree of undercooling on flow induced crystallization in polymer melts. <i>Polymer</i> , 2004 , 45, 3249-3256	3.9	75
25	Effect of cooling rate on the crystal/mesophase polymorphism of polyamide 6. <i>Colloid and Polymer Science</i> , 2011 , 289, 1073-1079	2.4	73
24	Continuous Cooling Curves Diagrams of Propene/Ethylene Random Copolymers. The Role of Ethylene Counits in Mesophase Development. <i>Macromolecules</i> , 2010 , 43, 2890-2896	5.5	69
23	Self-Nucleation of Polymers with Flow: The Case of Bimodal Polyethylene. <i>Macromolecules</i> , 2011 , 44, 2926-2933	5.5	69
22	Real-Time WAXD Detection of Mesophase Development during Quenching of Propene/Ethylene Copolymers. <i>Macromolecules</i> , 2010 , 43, 10208-10212	5.5	65
21	Short-Term Flow Induced Crystallization in Isotactic Polypropylene: How Short Is Short?. <i>Macromolecules</i> , 2013 , 46, 9249-9258	5.5	57
20	Quantification of non-isothermal, multi-phase crystallization of isotactic polypropylene: The influence of shear and pressure. <i>Polymer</i> , 2012 , 53, 5896-5908	3.9	51
19	A Study on the Chain P article Interaction and Aspect Ratio of Nanoparticles on Structure Development of a Linear Polymer. <i>Macromolecules</i> , 2010 , 43, 6749-6759	5.5	51
18	Pressure Quench of Flow-Induced Crystallization Precursors. <i>Macromolecules</i> , 2012 , 45, 4216-4224	5.5	50
17	Oriented Gamma Phase in Isotactic Polypropylene Homopolymer. ACS Macro Letters, 2012, 1, 618-622	6.6	42
16	Mesophase-Mediated Crystallization of Poly(butylene-2,6-naphthalate): An Example of Ostwald Rule of Stages. <i>ACS Macro Letters</i> , 2012 , 1, 1051-1055	6.6	41
15	Thermoreversible DMDBS Phase Separation in iPP: The Effects of Flow on the Morphology. <i>Macromolecules</i> , 2008 , 41, 5350-5355	5.5	41

LIST OF PUBLICATIONS

14	Flow induced crystallization in isotactic polypropylene during and after flow. <i>Polymer</i> , 2014 , 55, 6140-6	51 5 .1 ₉	40
13	Molecular Aspects of the Formation of Shish-Kebab in Isotactic Polypropylene. <i>Macromolecules</i> , 2016 , 49, 3799-3809	5.5	40
12	Dissolution and Re-emergence of Flow-Induced Shish in Polyethylene with a Broad Molecular Weight Distribution. <i>Macromolecules</i> , 2016 , 49, 2724-2730	5.5	35
11	Characteristics of Bimodal Polyethylene Prepared via Co-Immobilization of Chromium and Iron Catalysts on an MgCl2-Based Support. <i>Macromolecular Reaction Engineering</i> , 2009 , 3, 448-454	1.5	33
10	Influence of shear in the crystallization of polyethylene in the presence of SWCNTs. <i>Carbon</i> , 2010 , 48, 4116-4128	10.4	33
9	Flow-Induced Crystallization 2013 , 399-432		24
8	Structure Development of Low-Density Polyethylenes During Film Blowing: A Real-Time Wide-Angle X-ray Diffraction Study. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 1494-1512	3.9	24
7	The chemical structure of the amorphous phase of propylene@thylene random copolymers in relation to their stress@train properties. <i>Polymer</i> , 2014 , 55, 896-905	3.9	22
6	Flow-Induced Morphology of iPP Solidified in a Shear Device. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 60-67	3.9	21
5	In situ X-ray analysis of mesophase formation in random copolymers of propylene and 1-butene. <i>Polymer Bulletin</i> , 2011 , 67, 497-510	2.4	21
4	Influence of Nanoparticles on the Rheological Behaviour and Initial Stages of Crystal Growth in Linear Polyethylene. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 2174-2187	2.6	17
3	Multiscale Structure and Microscopic Deformation Mechanisms of Gel-Spun Ultrahigh-Molecular-Weight Polyethylene Fibers. <i>Macromolecules</i> , 2019 , 52, 5207-5216	5.5	14
2	Dynamics of fibrillar precursors of shishes as a function of stress. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 14, 012005	0.4	12
1	Dilatometry: A Tool to Measure the Influence of Cooling Rate and Pressure on the Phase Behavior of Nucleated Polypropylene. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 231-243	3.9	9