Mariano Pracella

List of Publications by Citations

84 papers	3,396 citations	32 h-index	56 g-index
85 ext. papers	3,589 ext. citations	3.8 avg, IF	5 L-index

#	Paper	IF	Citations
84	Blends of poly-(epsilon-caprolactone) and polysaccharides in tissue engineering applications. *Biomacromolecules*, **2005**, 6, 1961-76	6.9	275
83	Functionalization, compatibilization and properties of polypropylene composites with Hemp fibres. *Composites Science and Technology*, **2006**, 66, 2218-2230	8.6	244
82	Composites of poly(L-lactide) with hemp fibers: Morphology and thermal and mechanical properties. *Journal of Applied Polymer Science*, **2007**, 105, 255-268	2.9	172
81	Mechanical and thermal properties of PLA composites with cellulose nanofibers and standard size fibers. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 1509-1514	8.4	163
80	Filler toughening of plastics. Part 1—The effect of surface interactions on physico-mechanical properties and rheological behaviour of ultrafine CaCO3/HDPE nanocomposites. *Polymer*, **2005**, 46, 827-844	3.9	159
79	Influence of composition and molecular mass on the morphology, crystallization and melting behaviour of poly(ethylene oxide)/poly(methyl methacrylate) blends. *Polymer*, **1984**, 25, 1097-1106	3.9	155
78	Morphology and properties tuning of PLA/cellulose nanocrystals bio-nanocomposites by means of reactive functionalization and blending with PVAc. *Polymer*, **2014**, 55, 3720-3728	3.9	143
77	Functionalization, Compatibilization and Properties of Polyolefin Composites with Natural Fibers. *Polymers*, **2010**, 2, 554-574	4.5	109
76	Spherulite nucleation in blends of isotactic polypropylene with high-density polyethylene. *Polymer*, **1986**, 27, 537-543	3.9	92
75	Compatibilization and properties of poly(ethylene terephthalate)/polyethylene blends based on recycled materials. *Macromolecular Chemistry and Physics*, **2002**, 203, 1473-1485	2.6	86
74	Functionalization of LDPE by Melt Grafting with Glycidyl Methacrylate and Reactive Blending with Polyamide-6. *Macromolecular Chemistry and Physics*, **2003**, 204, 1123-1133	2.6	79
73	Polypropylene-POSS Nanocomposites: Morphology and Crystallization Behaviour. *Macromolecular Symposia*, **2006**, 234, 59-67	0.8	76
72	Spherulite nucleation in polypropylene blends with low density polyethylene. *Polymer*, **1984**, 25, 1323-1326	3.9	72
71	Crystallization behaviour of fractions of isotactic polypropylene with different degrees of stereoregularity. *Polymer*, **1983**, 24, 693-699	3.9	66
70	Characterization of scrap poly(ethylene terephthalate). *European Polymer Journal*, **2000**, 36, 1875-1884	5.2	65
69	Structure and properties of hybrid PLA nanocomposites with inorganic nanofillers and cellulose fibers. *Composites Part A: Applied Science and Manufacturing*, **2016**, 82, 34-41	8.4	64
68	Mechanical and thermal properties of green polylactide composites with natural fillers. *Macromolecular Bioscience*, **2008**, 8, 1190-200	5.5	61

67	Crystal phase and crystallinity of polyamide 6/functionalized polyolefin blends. *Polymer*, **2000**, 41, 4923-4932	3.9	59
66	Recycling of postconsumer poly(ethylene terephthalate) and high-density polyethylene by compatibilized blending. *Journal of Applied Polymer Science*, **2002**, 86, 1473-1485	2.9	57
65	Morphology, crystallization, and thermal behaviour of isotactic polypropylene/low density polyethylene blends. *Die Makromolekulare Chemie*, **1984**, 185, 1041-1061		50
64	Thermal properties and microhardness of HDPE/clay nanocomposites compatibilized by different functionalized polyethylenes. *Polymer Testing*, **2009**, 28, 528-533	4.5	47
63	Phase structure and viscoelastic properties of compatibilized blends of PET and HDPE recyclates. *Journal of Applied Polymer Science*, **2001**, 82, 1423-1436	2.9	47
62	Crystallization behavior of polyphenylene sulfide in blends with a liquid crystalline polymer. *Polymer Engineering and Science*, **1992**, 32, 57-64	2.3	44
61	Reactive mixing of PET and PET/PP blends with glycidyl methacrylate modified styrene-b-(ethylene-co-olefin) block copolymers. *Journal of Applied Polymer Science*, **2005**, 98, 2201-2211	2.9	41
60	Reactive compatibilization of blends of PET and PP modified by GMA grafting. *Macromolecular Symposia*, **2003**, 198, 161-172	0.8	39
59	Reactive Compatibilization of PA6/LDPE Blends with Glycidyl Methacrylate Functionalized Polyolefins. *Macromolecular Chemistry and Physics*, **2005**, 206, 777-786	2.6	39
58	Effect of ethylene-co-vinyl acetate-glycidylmethacrylate and cellulose microfibers on the thermal, rheological and biodegradation properties of poly(lactic acid) based systems. *Polymer Degradation and Stability*, **2013**, 98, 2742-2751	4.7	36
57	Properties of polyethylene-polypropylene blends: Crystallization behavior. *Die Makromolekulare Chemie*, **1980**, 181, 957-967		36
56	Influence of composition on the melt crystallization of isotactic random propylene/1-butene copolymers. *Die Makromolekulare Chemie*, **1980**, 181, 1747-1755		34
55	Reactive compatibilization and properties of recycled poly(ethylene terephthalate)/polyethylene blends. *Polymer Bulletin*, **2002**, 48, 67-74	2.4	33
54	Polypropylene spherulite morphology and growth rate changes in blends with low-density polyethylene. *Journal of Polymer Science, Polymer Physics Edition*, **1984**, 22, 739-747		33
53	Property tuning of poly(lactic acid)/cellulose bio-composites through blending with modified ethylene-vinyl acetate copolymer. *Carbohydrate Polymers*, **2016**, 137, 515-524	10.3	32
52	Effect of reactive functionalization on properties and degradability of poly(lactic acid)/poly(vinyl acetate) nanocomposites with cellulose nanocrystals. *Reactive and Functional Polymers*, **2017**, 110, 1-9	4.6	32
51	Study of blends of nylon 6 with EVOH and carboxyl-modified EVOH and a preliminary approach to films for packaging applications. *Journal of Applied Polymer Science*, **1998**, 68, 637-648	2.9	32
50	Reactive compatibilization of polyolefin/PET blends by melt grafting with glycidyl methacrylate. *Macromolecular Symposia*, **2000**, 149, 225-230	0.8	32

49	Recycling of PET and Polyolefin Based Packaging Materials by Reactive Blending. *Polymer-Plastics Technology and Engineering*, **2004**, 43, 1711-1722		30
48	Reactive compatibilization of composites of ethylene□inyl acetate copolymers with cellulose fibres. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 1545-1550	8.4	29
47	Effects of chain defects on the thermal behaviour of polyethylene. *Polymer*, **1974**, 15, 306-314	3.9	29
46	FTIR-microspectroscopy and DSC studies of poly(vinylidene fluoride). *Polymer International*, **1996**, 41, 35-41	3.3	25
45	Preparation and characterization of polybutylene-succinate/poly(ethylene-glycol)/cellulose nanocrystals ternary composites. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	24
44	Compatibility Studies in Binary Blends of PA6 and ULDPE-graft-DEM. *Macromolecular Chemistry and Physics*, **2001**, 202, 2461-2478	2.6	22
43	Properties of solution-grown crystals of fractions of isotactic polypropylene with different degrees of stereoregularity. *Journal of Polymer Science, Polymer Physics Edition*, **1980**, 18, 619-636		22
42	Properties of solution grown crystals of isotactic propylene/butene-1 copolymers. *Polymer*, **1977**, 18, 42-48	3.9	22
41	Functionalization and Compatibilization of Poly(□caprolactone) Composites with Cellulose Microfibres: Morphology, Thermal and Mechanical Properties. *Macromolecular Materials and Engineering*, **2012**, 297, 985-993	3.9	21
40	Thermal Characterization of Liquid Crystal Polyesters Based on Mesogenic Aromatic Triad Units. *Molecular Crystals and Liquid Crystals*, **1984**, 113, 201-212		19
39	Processing, compatibilization and properties of ternary composites of Mater-Bi with polyolefins and hemp fibres. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 2060-2069	8.4	18
38	Linear low-density polyethylenes by co-polymerization of ethylene with 1-hexene in the presence of titanium precursors and organoaluminium co-catalysts. *Polymer*, **2007**, 48, 1185-1192	3.9	17
37	Blends of propylene-ethylene and propylene-1-butene random copolymers: I. Morphology and structure. *Polymer*, **2004**, 45, 7549-7561	3.9	17
36	Compatibilization and Properties of EVA Copolymers Containing Surface-Functionalized Cellulose Microfibers. *Macromolecular Materials and Engineering*, **2010**, 295, 949-957	3.9	16
35	Thermal stability of blends of nylon 6 with polyolefins that contain acrylic acid. *European Polymer Journal*, **1998**, 34, 1865-1870	5.2	16
34	Oriented films from recycled poly(ethylene terephthalate)/recycled high-density polyethylene compatibilized blends. *Journal of Applied Polymer Science*, **2002**, 86, 1486-1496	2.9	15
33	Reactive compatibilization and fracture behavior in nylon 6/VLDPE blends. *Journal of Applied Polymer Science*, **1999**, 74, 3455-3468	2.9	15
32	Spherulite nucleation in blends of isotactic polypropylene with isotactic poly(butene-1). *Journal of Applied Polymer Science*, **1994**, 54, 1513-1524	2.9	15

31	Morphology and mechanical properties of polypropylene-POSS hybrid nanocomposites obtained by reactive blending. *Polymer Composites*, **2013**, 34, 929-941	3	14
30	FTIR microspectroscopy and DSC analysis of blends of poly(vinylidene fluoride) with isotactic and syndiotactic poly(methyl methacrylate). *Polymer International*, **1998**, 45, 373-382	3.3	14
29	Synthesis of PP□CP graft copolymers and their compatibilizing activity for PP/LCP blends. *Journal of Applied Polymer Science*, **1998**, 69, 391-403	2.9	14
28	Effect of thermal treatment on solution grown crystals of isotactic propylene/butene-1 copolymers. *Polymer*, **1977**, 18, 891-896	3.9	13
27	Thermal and microstructural characterization of compatibilized polystyrene/natural fillers composites. *Journal of Thermal Analysis and Calorimetry*, **2011**, 103, 95-101	4.1	11
26	Phase behaviour and morphology of polymer/liquid crystal blends. *Liquid Crystals*, **1993**, 14, 881-888	2.3	11
25	A study of crystallisation behaviour and compatibility of high-density polyethylene/linear low-density polyethylene blends. *Thermochimica Acta*, **1990**, 162, 163-177	2.9	11
24	Low and high-yield isotactic polypropylene. *Journal of Thermal Analysis*, **1983**, 28, 237-248		11
23	Crystallization of Polymer Blends **2013**, 287-326		10
22	Microscopic FT-IR analysis of blends from functionalized polyolefins and poly(vinyl chloride) or polystyrene. *Makromolekulare Chemie Macromolecular Symposia*, **1989**, 23, 265-275		10
21	Blends of propylene-ran-ethylene and propylene-ran-(1-butene) copolymers: Crystal superstructure and mechanical properties. *European Polymer Journal*, **2006**, 42, 1819-1829	5.2	9
20	Synthesis and characterization of aliphatic unsaturated polyesters from trans-4-octene-1,8-dioic and trans-3-hexene-1,6-dioic acids. *European Polymer Journal*, **1979**, 15, 695-699	5.2	9
19	Morphology, microhardness, and flammability of compatibilized polyethylene/clay nanocomposites. *Polymer Engineering and Science*, **2010**, 50, 1306-1314	2.3	8
18	FTIR Microanalysis and Phase Behaviour of Ethylene/1-Hexene Random Copolymers. *Macromolecular Chemistry and Physics*, **2007**, 208, 1560-1571	2.6	7
17	DSC analysis of ethylene/1-butene copolymers obtained with different ziegler□natta catalysts. *Polymer International*, **1994**, 33, 279-284	3.3	6
16	Polycarbonate-linear low density polyethylene blends: Thermal and dynamic-mechanical properties. *Journal of Materials Science*, **1990**, 25, 3693-3700	4.3	6
15	Thermal and FT-IR analysis of polymer blends based on functionalized polyolefins. *Thermochimica Acta*, **1988**, 137, 95-103	2.9	6
14	Inhibited crystallization of polyhydroxybutyrate by blending with aliphatic-aromatic copolyester. *European Polymer Journal*, **2018**, 103, 133-144	5.2	5

13	Fracture behaviour of biodegradable polymer/polyolefin-natural fibers ternary composites systems. *Fibers and Polymers*, **2014**, 15, 2625-2632	2	5
12	Morphological study of low molecular weight poly(ethylene oxide) single crystals grown from solution. *European Polymer Journal*, **1985**, 21, 551-554	5.2	5
11	Solid state polymorphism of a mesophasic polymer. Poly[oxydodecanedioyloxy-1,4-phenylene-(2-methylvinylene)1,4-phenylene]. *European Polymer Journal*, **1980**, 16, 261-267	5.2	5
10	Blends and Alloys **2017**, 155-184		4
9	Influence of intrachain double bonds on the properties of solution grown single crystals of polyethylene. *Polymer*, **1976**, 17, 541-547	3.9	4
8	Polyhydroxyalkanoate Nanocomposites with Cellulose Nanocrystals as Biodegradable Coating and Packaging Materials. *ACS Applied Nano Materials*, **2021**, 4, 260-270	5.6	4
7	Plastic deformation of polyamide 6/polypropylene-g-acrylic acid blends. *Macromolecular Symposia*, **2000**, 149, 185-190	0.8	3
6	Action of ozone on isotropic and oriented blends of polypropylene and polyethylene. On the influence of deformation on the rate of oxidation. *Polymer Science USSR*, **1982**, 24, 2754-2760		3
5	Functionalization of Styrene-Olefin Block Copolymers by Melt Radical Grafting of Glycidyl Methacrylate and Reactive Blending with PET. *Macromolecular Symposia*, **2001**, 169, 173-182	0.8	2
4	Molecular interactions at the interface in blends of ester groups-functionalized polyolefins. *Macromolecular Symposia*, **1995**, 98, 1101-1122	0.8	2
3	Polyolefins with POSS. *Springer Series on Polymer and Composite Materials*, **2018**, 129-166	0.9	2
2	Annealing of solution-grown single crystals of ethylene-butadiene copolymers. *Polymer*, **1977**, 18, 887-890	3.9	1
1	Properties of solution grown crystals of aliphatic polyesters with variable amount of double bonds along the chain. *Die Makromolekulare Chemie*, **1979**, 180, 1023-1035		1