

Giovanni Filippone

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73
papers

1,729
citations

24
h-index

39
g-index

83
ext. papers

1,999
ext. citations

4.6
avg, IF

5.05
L-index

#	Paper	IF	Citations
73	Effects of nanoparticles on the morphology of immiscible polymer blends [Challenges and opportunities. <i>European Polymer Journal</i> , 2016 , 79, 198-218	5.2	135
72	The role of organoclay in promoting co-continuous morphology in high-density poly(ethylene)/poly(amide) 6 blends. <i>Polymer</i> , 2008 , 49, 1312-1322	3.9	110
71	Polylactide (PLA) Filaments a Biobased Solution for Additive Manufacturing: Correlating Rheology and Thermomechanical Properties with Printing Quality. <i>Materials</i> , 2018 , 11,	3.5	88
70	Nanoparticle-induced co-continuity in immiscible polymer blends [A comparative study on bio-based PLA-PA11 blends filled with organoclay, sepiolite, and carbon nanotubes. <i>Polymer</i> , 2014 , 55, 4908-4919	3.9	81
69	Using organoclay to promote morphology refinement and co-continuity in high-density polyethylene/polyamide 6 blends [Effect of filler content and polymer matrix composition. <i>Polymer</i> , 2010 , 51, 3956-3965	3.9	71
68	Optimization of dye adsorption capacity and mechanical strength of chitosan aerogels through crosslinking strategy and graphene oxide addition. <i>Carbohydrate Polymers</i> , 2019 , 211, 195-203	10.3	70
67	Chitosan hydrogels embedding hyper-crosslinked polymer particles as reusable broad-spectrum adsorbents for dye removal. <i>Carbohydrate Polymers</i> , 2017 , 177, 347-354	10.3	68
66	Reinforcing mechanisms of natural fibers in green composites: Role of fibers morphology in a PLA/hemp model system. <i>Composites Science and Technology</i> , 2019 , 180, 51-59	8.6	60
65	Viscoelasticity and structure of polystyrene/fumed silica nanocomposites: filler network and hydrodynamic contributions. <i>Langmuir</i> , 2010 , 26, 2714-20	4	58
64	A Unifying Approach for the Linear Viscoelasticity of Polymer Nanocomposites. <i>Macromolecules</i> , 2012 , 45, 8853-8860	5.5	56
63	Heat-Resistant Fully Bio-Based Nanocomposite Blends Based on Poly(lactic acid). <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 31-40	3.9	49
62	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state [Part I: Thermal and thermo-oxidative degradation of polyamide 11. <i>Polymer</i> , 2015 , 72, 134-141	3.9	41
61	[Tocopherol-induced radical scavenging activity in carbon nanotubes for thermo-oxidation resistant ultra-high molecular weight polyethylene-based nanocomposites. <i>Carbon</i> , 2014 , 74, 14-21	10.4	39
60	Microstructural evolutions of LDPE/PA6 blends by rheological and rheo-optical analyses: Influence of flow and compatibilizer on break-up and coalescence processes. <i>Polymer</i> , 2007 , 48, 564-573	3.9	37
59	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state [Part II: Thermal and thermo-oxidative degradation of polyamide 11/organo-clay nanocomposites. <i>Polymer</i> , 2015 , 73, 102-110	3.9	35
58	Photo-oxidation behaviour of polyethylene/polyamide 6 blends filled with organomodified clay: Improvement of the photo-resistance through morphology modification. <i>Polymer Degradation and Stability</i> , 2010 , 95, 527-535	4.7	35
57	Elasticity and dynamics of particle gels in non-Newtonian melts. <i>Rheologica Acta</i> , 2008 , 47, 989-997	2.3	35

56	Selective localization of organoclay and effects on the morphology and mechanical properties of LDPE/PA11 blends with distributed and co-continuous morphology. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 600-609	2.6	33
55	Multi-functional hindered amine light stabilizers-functionalized carbon nanotubes for advanced ultra-high molecular weight Polyethylene-based nanocomposites. <i>Composites Part B: Engineering</i> , 2015 , 82, 196-204	10	32
54	Thermally activated multiple self-healing diels-alder epoxy system. <i>Polymer Engineering and Science</i> , 2017 , 57, 674-679	2.3	29
53	Thermo-oxidative resistant nanocomposites containing novel hybrid-nanoparticles based on natural polyphenol and carbon nanotubes. <i>Polymer Degradation and Stability</i> , 2015 , 115, 129-137	4.7	29
52	Dispersing hydrophilic nanoparticles in hydrophobic polymers: HDPE/ZnO nanocomposites by a novel template-based approach. <i>EXPRESS Polymer Letters</i> , 2014 , 8, 362-372	3.4	29
51	Universal features of the melt elasticity of interacting polymer nanocomposites. <i>Langmuir</i> , 2012 , 28, 5458-63	4	29
50	Structure and dynamics of polyethylene/clay films. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4749-4758	4.5	28
49	Elasticity and structure of weak graphite nanoplatelet (GNP) networks in polymer matrices through viscoelastic analyses. <i>Polymer</i> , 2012 , 53, 2699-2704	3.9	24
48	Role of Interface Rheology in Altering the Onset of Co-Continuity in Nanoparticle-Filled Polymer Blends. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 658-665	3.9	24
47	Assembly of plate-like nanoparticles in immiscible polymer blends--effect of the presence of a preferred liquid-liquid interface. <i>Soft Matter</i> , 2014 , 10, 3183-91	3.6	23
46	Rheological Aspects of PP-TiO2 Micro and Nanocomposites: A Preliminary Investigation. <i>Macromolecular Symposia</i> , 2007 , 247, 59-66	0.8	22
45	Solid particle erosion and viscoelastic properties of thermoplastic polyurethanes. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 166-176	3.4	21
44	Tailoring gas permeation and dielectric properties of bromobutyl rubber [Graphene oxide nanocomposites by inducing an ordered nanofiller microstructure. <i>Composites Part B: Engineering</i> , 2017 , 116, 361-368	10	21
43	Clustering of Coated Droplets in Clay-Filled Polymer Blends. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 923-928	3.9	21
42	Effects of particle dimension and matrix viscosity on the colloidal aggregation in weakly interacting polymer-nanoparticle composites: a linear viscoelastic analysis. <i>Polymer Bulletin</i> , 2009 , 63, 883-895	2.4	20
41	Importance of the morphology and structure of the primary aggregates for the dispersibility of carbon nanotubes in polymer melts. <i>Composites Science and Technology</i> , 2013 , 85, 17-22	8.6	18
40	Natural fiber-induced degradation in PLA-hemp biocomposites in the molten state. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 137, 105990	8.4	17
39	Bio-Polyamide 11 Hybrid Composites Reinforced with Basalt/Flax Interwoven Fibers: A Tough Green Composite for Semi-Structural Applications. <i>Fibers</i> , 2019 , 7, 41	3.7	16

38	Multi-functional polyhedral oligomeric silsesquioxane-functionalized carbon nanotubes for photo-oxidative stable Ultra-High Molecular Weight Polyethylene-based nanocomposites. <i>European Polymer Journal</i> , 2016 , 75, 525-537	5.2	16
37	Role of polymer network and gelation kinetics on the mechanical properties and adsorption capacity of chitosan hydrogels for dye removal. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1843-1849	2.6	16
36	Advanced ultra-high molecular weight polyethylene/antioxidant-functionalized carbon nanotubes nanocomposites with improved thermo-oxidative resistance. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	16
35	Light-responsive and self-healing behavior of azobenzene-based supramolecular hydrogels. <i>Journal of Colloid and Interface Science</i> , 2020 , 568, 16-24	9.3	15
34	Functionalization of aliphatic polyesters by nitroxide radical coupling. <i>Polymer Chemistry</i> , 2014 , 5, 5656	4.9	15
33	Interfacial crowding of nanoplatelets in co-continuous polymer blends: assembly, elasticity and structure of the interfacial nanoparticle network. <i>Soft Matter</i> , 2017 , 13, 6465-6473	3.6	15
32	Dynamics of Stress Bearing Particle Networks in Poly(propylene)/Alumina Nanohybrids. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 347-353	3.9	13
31	Surface Morphology, Crystallinity, and Hydrophilicity of Poly(Ecaprolactone) Films Prepared Via Casting of Ethyl Lactate and Ethyl Acetate Solutions. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 49-58	2.6	11
30	Altering the onset of cocontinuity in nanocomposite immiscible blends by acting on the melt-compounding procedure. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 3711-3718	2.9	11
29	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. <i>Polymer International</i> , 2016 , 65, 48-56	3.3	10
28	Mechanically Coherent Zeolite 13X/Chitosan Aerogel Beads for Effective CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20728-20734	9.5	8
27	Using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the characterization of functionalized carbon nanotubes. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1359-66	2.2	6
26	Rheology of complex fluids with vibrating fiber-optic sensors. <i>Sensors and Actuators A: Physical</i> , 2017 , 264, 219-223	3.9	6
25	Flexural Properties and Low-Velocity Impact Behavior of Polyamide 11/Basalt Fiber Fabric Laminates. <i>Polymers</i> , 2021 , 13,	4.5	6
24	Impact of nanoparticles on the environmental sustainability of polymer nanocomposites based on bioplastics or recycled plastics A review of life-cycle assessment studies. <i>Journal of Cleaner Production</i> , 2022 , 335, 130322	10.3	5
23	Viscoelastic and equilibrium shear properties of human meniscus: Relationships with tissue structure and composition. <i>Journal of Biomechanics</i> , 2021 , 120, 110343	2.9	5
22	Insight on mendable resin made by combining Diels-Alder epoxy adducts with DGEBA 2016 ,		5
21	Study of the morphology and texture of poly(Ecaprolactone)/polyethylene oxide blend films as a function of composition and the addition of nanofillers with different functionalities. <i>RSC Advances</i> , 2015 , 5, 59354-59363	3.7	4

20	Supercritical CO ₂ antisolvent precipitation from biocompatible polymer solutions: A novel sustainable approach for biomaterials design and fabrication. <i>Journal of Supercritical Fluids</i> , 2015 , 105, 9-20	4.2	4
19	Interfacially-Located Nanoparticles Anticipate the Onset of Co-Continuity in Immiscible Polymer Blends. <i>Polymers</i> , 2017 , 9,	4.5	4
18	Immobilization of natural anti-oxidants on carbon nanotubes and aging behavior of ultra-high molecular weight polyethylene-based nanocomposites 2014 ,		4
17	ELASTICITY AND DYNAMICS OF PARTICLE GELS IN NON-NEWTONIAN MELTS. <i>AIP Conference Proceedings</i> , 2008 ,	0	4
16	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
15	Mechanical performance of polylactic based formulations 2015 , 17-37		2
14	Role of Organo-Modifier and Metal Impurities of Commercial Nanoclays in the Photo- and Thermo-Oxidation of Polyamide 11 Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	2
13	Influence of alkaline treatment on hemp fibers filled poly(lactic acid) 2018 ,		2
12	Effectiveness of organoclays as compatibilizers for multiphase polymer blends [A sustainable route for the mechanical recycling of co-mingled plastics 2014 ,		2
11	Chitosan/Zeolite Composite Aerogels for a Fast and Effective Removal of Both Anionic and Cationic Dyes from Water. <i>Polymers</i> , 2021 , 13,	4.5	2
10	Low-Density Polyethylene/Polyamide/Clay Blend Nanocomposites: Effect of Morphology of Clay on Their Photooxidation Resistance. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-9	3.2	1
9	Effect of the Compounding Procedure on the Structure and Viscoelasticity of Polymer Nanocomposites 2010 ,		1
8	Impact of Nanoparticles on the Microstructure and Properties of Immiscible Polymer Blends: Preliminary Investigations 2010 ,		1
7	Increasing Awareness of Materials and the Environment: Hands-On Outreach Activity Presenting Water Purification Materials and Concepts. <i>Journal of Chemical Education</i> , 2021 , 98, 1296-1301	2.4	1
6	Morphology stabilization of co-continuous polymer blends through clay nanoparticles 2016 ,		1
5	Chitosan-based hydrogel for dye removal from aqueous solutions: Optimization of the preparation procedure 2016 ,		1
4	Effect of rheology evolution of a sustainable chemical grout, sodium-silicate based, for low pressure grouting in sensitive areas: Urbanized or historical sites. <i>Construction and Building Materials</i> , 2020 , 230, 117055	6.7	1
3	Manufacturing of bio-polyamide 11/basalt thermoplastic laminates by hot compaction: The key-role of matrix rheology. <i>Journal of Thermoplastic Composite Materials</i> , 089270572110702	1.9	1

- 2 Mechanical properties of meniscal circumferential fibers using an inverse finite element analysis approach.. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 126, 105073 4.1 ○
- 1 Recycled (Bio)Plastics and (Bio)Plastic Composites: A Trade Opportunity in a Green Future. *Polymers*, **2022**, 14, 2038 4.5 ○