Giovanni Filippone

List of Publications by Year
in descending order

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81 papers	2,315 citations	201674 27 h-index	223800 46 g-index
83 all docs	83 docs citations	83 times ranked	2410 citing authors

#	Article	IF	Citations
1	Effects of nanoparticles on the morphology of immiscible polymer blends â€“ Challenges and opportunities. European Polymer Journal, 2016, 79, 198-218.	5.4	190
2	Polylactide (PLA) Filaments a Biobased Solution for Additive Manufacturing: Correlating Rheology and Thermomechanical Properties with Printing Quality. Materials, 2018, 11, 1191.	2.9	123
3	The role of organoclay in promoting co-continuous morphology in high-density poly(ethylene)/poly(amide) 6 blends. Polymer, 2008, 49, 1312-1322.	3.8	121
4	Optimization of dye adsorption capacity and mechanical strength of chitosan aerogels through crosslinking strategy and graphene oxide addition. Carbohydrate Polymers, 2019, 211, 195-203.	10.2	111
5	Reinforcing mechanisms of natural fibers in green composites: Role of fibers morphology in a PLA/hemp model system. Composites Science and Technology, 2019, 180, 51-59.	7.8	99
6	Nanoparticle-induced co-continuity in immiscible polymer blends â€“ A comparative study on bio-based PLA-PA11 blends filled with organoclay, sepiolite, and carbon nanotubes. Polymer, 2014, 55, 4908-4919.	3.8	98
7	Chitosan hydrogels embedding hyper-crosslinked polymer particles as reusable broad-spectrum adsorbents for dye removal. Carbohydrate Polymers, 2017, 177, 347-354.	10.2	93
8	Using organoclay to promote morphology refinement and co-continuity in high-density polyethylene/polyamide 6 blends â€“ Effect of filler content and polymer matrix composition. Polymer, 2010, 51, 3956-3965.	3.8	82
9	A Unifying Approach for the Linear Viscoelasticity of Polymer Nanocomposites. Macromolecules, 2012, 45, 8853-8860.	4.8	69
10	Viscoelasticity and Structure of Polystyrene/Fumed Silica Nanocomposites: Filler Network and Hydrodynamic Contributions. Langmuir, 2010, 26, 2714-2720.	3.5	64
11	Heat-Resistant Fully Bio-Based Nanocomposite Blends Based on Poly(lactic acid). Macromolecular Materials and Engineering, 2014, 299, 31-40.	3.6	60
12	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state â€“ Part I: Thermal and thermo-oxidative degradation of polyamide 11. Polymer, 2015, 72, 134-141.	3.8	54
13	Î±-Tocopherol-induced radical scavenging activity in carbon nanotubes for thermo-oxidation resistant ultra-high molecular weight polyethylene-based nanocomposites. Carbon, 2014, 74, 14-21.	10.3	48
14	Thermally activated multiple selfâ€healing dielsâ€alder epoxy system. Polymer Engineering and Science, 2017, 57, 674-679.	3.1	42
15	Selective localization of organoclay and effects on the morphology and mechanical properties of LDPE/PA11 blends with distributed and coâ€continuous morphology. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 600-609.	2.1	41
16	Natural fiber-induced degradation in PLA-hemp biocomposites in the molten state. Composites Part A: Applied Science and Manufacturing, 2020, 137, 105990.	7.6	40
17	Elasticity and dynamics of particle gels in non-Newtonian melts. Rheologica Acta, 2008, 47, 989-997.	2.4	38
18	Photo-oxidation behaviour of polyethylene/polyamide 6 blends filled with organomodified clay: Improvement of the photo-resistance through morphology modification. Polymer Degradation and Stability, 2010, 95, 527-535.	5.8	38

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19	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state â€“ Part II: Thermal and thermo-oxidative degradation of polyamide 11/organo-clay nanocomposites. Polymer, 2015, 73, 102-110.	3.8	38
20	Light-responsive and self-healing behavior of azobenzene-based supramolecular hydrogels. Journal of Colloid and Interface Science, 2020, 568, 16-24.	9.4	38
21	Microstructural evolutions of LDPE/PA6 blends by rheological and rheo-optical analyses: Influence of flow and compatibilizer on break-up and coalescence processes. Polymer, 2007, 48, 564-573.	3.8	37
22	Multi-functional hindered amine light stabilizers-functionalized carbon nanotubes for advanced ultra-high molecular weight Polyethylene-based nanocomposites. Composites Part B: Engineering, 2015, 82, 196-204.	12.0	37
23	Thermo-oxidative resistant nanocomposites containing novel hybrid-nanoparticles based on natural polyphenol and carbon nanotubes. Polymer Degradation and Stability, 2015, 115, 129-137.	5.8	36
24	Universal Features of the Melt Elasticity of Interacting Polymer Nanocomposites. Langmuir, 2012, 28, 5458-5463.	3.5	31
25	Dispersing hydrophilic nanoparticles in hydrophobic polymers: HDPE/ZnO nanocomposites by a novel template-based approach. EXPRESS Polymer Letters, 2014, 8, 362-372.	2.1	31
26	Assembly of plate-like nanoparticles in immiscible polymer blends â€“ effect of the presence of a preferred liquidâ€“liquid interface. Soft Matter, 2014, 10, 3183.	2.7	30
27	Structure and dynamics of polyethylene/clay films. Journal of Applied Polymer Science, 2006, 102, 4749-4758.	2.6	29
28	Elasticity and structure of weak graphite nanoplatelet (GNP) networks in polymer matrices through viscoelastic analyses. Polymer, 2012, 53, 2699-2704.	3.8	28
29	Rheological Aspects of PP-TiO2 Micro and Nanocomposites: A Preliminary Investigation. Macromolecular Symposia, 2007, 247, 59-66.	0.7	27
30	Tailoring gas permeation and dielectric properties of bromobutyl rubber â€“ Graphene oxide nanocomposites by inducing an ordered nanofiller microstructure. Composites Part B: Engineering, 2017, 116, 361-368.	12.0	27
31	Bio-Polyamide 11 Hybrid Composites Reinforced with Basalt/Flax Interwoven Fibers: A Tough Green Composite for Semi-Structural Applications. Fibers, 2019, 7, 41.	4.0	27
32	Mechanically Coherent Zeolite 13X/Chitosan Aerogel Beads for Effective CO₂ Capture. ACS Applied Materials & Interfaces, 2021, 13, 20728-20734.	8.0	27
33	Role of Interface Rheology in Altering the Onset of Coâ€Continuity in Nanoparticleâ€Filled Polymer Blends. Macromolecular Materials and Engineering, 2011, 296, 658-665.	3.6	26
34	Interfacial crowding of nanoplatelets in co-continuous polymer blends: assembly, elasticity and structure of the interfacial nanoparticle network. Soft Matter, 2017, 13, 6465-6473.	2.7	26
35	Clustering of Coated Droplets in Clayâ€Filled Polymer Blends. Macromolecular Materials and Engineering, 2012, 297, 923-928.	3.6	25
36	Solid particle erosion and viscoelastic properties of thermoplastic polyurethanes. EXPRESS Polymer Letters, 2015, 9, 166-176.	2.1	25

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37	Effects of particle dimension and matrix viscosity on the colloidal aggregation in weakly interacting polymer-nanoparticle composites: a linear viscoelastic analysis. Polymer Bulletin, 2009, 63, 883-895.	3.3	24
38	Importance of the morphology and structure of the primary aggregates for the dispersibility of carbon nanotubes in polymer melts. Composites Science and Technology, 2013, 85, 17-22.	7.8	20
39	Functionalization of aliphatic polyesters by nitroxide radical coupling. Polymer Chemistry, 2014, 5, 5656.	3.9	20
40	Role of polymer network and gelation kinetics on the mechanical properties and adsorption capacity of chitosan hydrogels for dye removal. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1843-1849.	2.1	20
41	Viscoelastic and equilibrium shear properties of human meniscus: Relationships with tissue structure and composition. Journal of Biomechanics, 2021, 120, 110343.	2.1	20
42	Impact of nanoparticles on the environmental sustainability of polymer nanocomposites based on bioplastics or recycled plastics â€“ A review of life-cycle assessment studies. Journal of Cleaner Production, 2022, 335, 130322.	9.3	20
43	Multi-functional polyhedral oligomeric silsesquioxane-functionalized carbon nanotubes for photo-oxidative stable Ultra-High Molecular Weight Polyethylene-based nanocomposites. European Polymer Journal, 2016, 75, 525-537.	5.4	19
44	Advanced ultraâ€high molecular weight polyethylene/antioxidantâ€functionalized carbon nanotubes nanocomposites with improved thermoâ€oxidative resistance. Journal of Applied Polymer Science, 2015, 132, .	2.6	16
45	Dynamics of Stress Bearing Particle Networks in Poly(propylene)/Alumina Nanohybrids. Macromolecular Materials and Engineering, 2007, 292, 347-353.	3.6	15
46	Mechanical properties of meniscal circumferential fibers using an inverse finite element analysis approach. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105073.	3.1	15
47	Chitosan/Zeolite Composite Aerogels for a Fast and Effective Removal of Both Anionic and Cationic Dyes from Water. Polymers, 2021, 13, 1691.	4.5	14
48	Recycled (Bio)Plastics and (Bio)Plastic Composites: A Trade Opportunity in a Green Future. Polymers, 2022, 14, 2038.	4.5	14
49	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. Polymer International, 2016, 65, 48-56.	3.1	13
50	Surface Morphology, Crystallinity, and Hydrophilicity of Poly(Îµâ€caprolactone) Films Prepared Via Casting of Ethyl Lactate and Ethyl Acetate Solutions. Macromolecular Chemistry and Physics, 2015, 216, 49-58.	2.2	12
51	Altering the onset of cocontinuity in nanocomposite immiscible blends by acting on the meltâ€compounding procedure. Journal of Applied Polymer Science, 2011, 122, 3711-3718.	2.6	11
52	Flexural Properties and Low-Velocity Impact Behavior of Polyamide 11/Basalt Fiber Fabric Laminates. Polymers, 2021, 13, 1055.	4.5	10
53	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. International Journal of Molecular Sciences, 2021, 22, 5535.	4.1	10
54	Rheology of complex fluids with vibrating fiber-optic sensors. Sensors and Actuators A: Physical, 2017, 264, 219-223.	4.1	9

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55	Effect of rheology evolution of a sustainable chemical grout, sodium-silicate based, for low pressure grouting in sensitive areas: Urbanized or historical sites. Construction and Building Materials, 2020, 230, 117055.	7.2	9
56	Using matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry for the characterization of functionalized carbon nanotubes. Rapid Communications in Mass Spectrometry, 2013, 27, 1359-1366.	1.5	6
57	Insight on mendable resin made by combining Diels-Alder epoxy adducts with DGEBA. AIP Conference Proceedings, 2016, , .	0.4	6
58	Manufacturing of bio-polyamide 11/basalt thermoplastic laminates by hot compaction: The key-role of matrix rheology. Journal of Thermoplastic Composite Materials, 0, , 089270572110702.	4.2	5
59	ELASTICITY AND DYNAMICS OF PARTICLE GELS IN NON-NEWTONIAN MELTS. AIP Conference Proceedings, 2008, , .	0.4	4
60	Immobilization of natural anti-oxidants on carbon nanotubes and aging behavior of ultra-high molecular weight polyethylene-based nanocomposites. , 2014, , .		4
61	Effectiveness of organoclays as compatibilizers for multiphase polymer blends â€“ A sustainable route for the mechanical recycling of co-mingled plastics. AIP Conference Proceedings, 2014, , .	0.4	4
62	Study of the morphology and texture of poly(Îµ-caprolactone)/polyethylene oxide blend films as a function of composition and the addition of nanofillers with different functionalities. RSC Advances, 2015, 5, 59354-59363.	3.6	4
63	Supercritical CO2 antisolvent precipitation from biocompatible polymer solutions: A novel sustainable approach for biomaterials design and fabrication. Journal of Supercritical Fluids, 2015, 105, 9-20.	3.2	4
64	Interfacially-Located Nanoparticles Anticipate the Onset of Co-Continuity in Immiscible Polymer Blends. Polymers, 2017, 9, 393.	4.5	4
65	Role of Organo-Modifier and Metal Impurities of Commercial Nanoclays in the Photo- and Thermo-Oxidation of Polyamide 11 Nanocomposites. Polymers, 2020, 12, 1034.	4.5	4
66	Increasing Awareness of Materials and the Environment: Hands-On Outreach Activity Presenting Water Purification Materials and Concepts. Journal of Chemical Education, 2021, 98, 1296-1301.	2.3	4
67	Mechanical performance of polylactic based formulations. , 2015, , 17-37.		3
68	Clay-filled bio-based blends of poly(lactic acid) and polyamide 11. , 2012, , .		2
69	Low-Density Polyethylene/Polyamide/Clay Blend Nanocomposites: Effect of Morphology of Clay on Their Photooxidation Resistance. Journal of Nanomaterials, 2017, 2017, 1-9.	2.7	2
70	Influence of alkaline treatment on hemp fibers filled poly(lactic acid). AIP Conference Proceedings, 2018, , .	0.4	2
71	Effect of the Compounding Procedure on the Structure and Viscoelasticity of Polymer Nanocomposites. AIP Conference Proceedings, 2010, , .	0.4	1
72	Impact of Nanoparticles on the Microstructure and Properties of Immiscible Polymer Blends: Preliminary Investigations. , 2010, , .		1

#	Article	IF	Citations
73	Linear viscoelasticity of polymer-graphite nanoplatelets (GNPs) nanocomposites. , 2012, , .		1
74	Morphology stabilization of co-continuous polymer blends through clay nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	1
75	Chitosan-based hydrogel for dye removal from aqueous solutions: Optimization of the preparation procedure. AIP Conference Proceedings, 2016, , .	0.4	1
76	Mechanical properties and reprocessability of<scp>Dielsâ€Alder</scp>â€based reversible networks from furanâ€modified resins. Journal of Applied Polymer Science, 2022, 139, .	2.6	1
77	EFFECT OF ORGANOCLAY ON THE MORPHOLOGY AND MECHANICAL PROPERTIES OF LDPEâˆ•PA11 BLENDS. AIP Conference Proceedings, 2008, , .	0.4	0
78	Effect of the aggregate morphology on the dispersability of MWCNTs in polymer melts. , 2012, , .		0
79	Impact of solvents and supercritical CO2 drying on the morphology and structure of polymer-based biofilms. , 2014, , .		0
80	Melt state dynamics of plate-like nanoparticles in immiscible polymer blends. , 2014, , .		0
81	Controlling the assembly of graphene based nanosheets within a rubber matrix: Nanocomposite morphology probed by measuring gas permeation and dielectric properties. AIP Conference Proceedings, 2016, , .	0.4	0