

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	Mechanical properties of meniscal circumferential fibers using an inverse finite element analysis approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105073.	3.1	15
2	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.	9.3	20
3	Recycled (Bio)Plastics and (Bio)Plastic Composites: A Trade Opportunity in a Green Future. <i>Polymers</i> , 2022, 14, 2038.	4.5	14
4	Mechanical properties and reprocessability of Diels-Alder-based reversible networks from furan-modified resins. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	1
5	Flexural Properties and Low-Velocity Impact Behavior of Polyamide 11/Basalt Fiber Fabric Laminates. <i>Polymers</i> , 2021, 13, 1055.	4.5	10
6	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.	2.3	4
7	Mechanically Coherent Zeolite 13X/Chitosan Aerogel Beads for Effective CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20728-20734.	8.0	27
8	Viscoelastic and equilibrium shear properties of human meniscus: Relationships with tissue structure and composition. <i>Journal of Biomechanics</i> , 2021, 120, 110343.	2.1	20
9	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5535.	4.1	10
10	Chitosan/Zeolite Composite Aerogels for a Fast and Effective Removal of Both Anionic and Cationic Dyes from Water. <i>Polymers</i> , 2021, 13, 1691.	4.5	14
11	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.	7.2	9
12	Natural fiber-induced degradation in PLA-hemp biocomposites in the molten state. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 105990.	7.6	40
13	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, 1034.	4.5	4
14	Light-responsive and self-healing behavior of azobenzene-based supramolecular hydrogels. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 16-24.	9.4	38
15	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.	7.8	99
16	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.	4.0	27
17	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.	10.2	111
18	Poly lactide (PLA) Filaments a Biobased Solution for Additive Manufacturing: Correlating Rheology and Thermomechanical Properties with Printing Quality. <i>Materials</i> , 2018, 11, 1191.	2.9	123

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19	Influence of alkaline treatment on hemp fibers filled poly(lactic acid). AIP Conference Proceedings, 2018, , .	0.4	2
20	Thermally activated multiple self-healing diels-alder epoxy system. Polymer Engineering and Science, 2017, 57, 674-679.	3.1	42
21	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
22	Chitosan hydrogels embedding hyper-crosslinked polymer particles as reusable broad-spectrum adsorbents for dye removal. Carbohydrate Polymers, 2017, 177, 347-354.	10.2	93
23	Rheology of complex fluids with vibrating fiber-optic sensors. Sensors and Actuators A: Physical, 2017, 264, 219-223.	4.1	9
24	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
25	Tailoring gas permeation and dielectric properties of bromobutyl rubber " Graphene oxide nanocomposites by inducing an ordered nanofiller microstructure. Composites Part B: Engineering, 2017, 116, 361-368.	12.0	27
26	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
27	Interfacially-Located Nanoparticles Anticipate the Onset of Co-Continuity in Immiscible Polymer Blends. Polymers, 2017, 9, 393.	4.5	4
28	Morphology stabilization of co-continuous polymer blends through clay nanoparticles. AIP Conference Proceedings, 2016, , .	0.4	1
29	Chitosan-based hydrogel for dye removal from aqueous solutions: Optimization of the preparation procedure. AIP Conference Proceedings, 2016, , .	0.4	1
30	Insight on mendable resin made by combining Diels-Alder epoxy adducts with DGEBA. AIP Conference Proceedings, 2016, , .	0.4	6
31	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
32	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. Polymer International, 2016, 65, 48-56.	3.1	13
33	Effects of nanoparticles on the morphology of immiscible polymer blends " Challenges and opportunities. European Polymer Journal, 2016, 79, 198-218.	5.4	190
34	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
35	Advanced ultra-high molecular weight polyethylene/antioxidant-functionalized carbon nanotubes nanocomposites with improved thermo-oxidative resistance. Journal of Applied Polymer Science, 2015, 132, .	2.6	16
36	Surface Morphology, Crystallinity, and Hydrophilicity of Poly(epsilon-caprolactone) Films Prepared Via Casting of Ethyl Lactate and Ethyl Acetate Solutions. Macromolecular Chemistry and Physics, 2015, 216, 49-58.	2.2	12

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37	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. Polymer, 2015, 72, 134-141.	3.8	54
38	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. Polymer, 2015, 73, 102-110.	3.8	38
39	Study of the morphology and texture of poly(μ -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
40	Solid particle erosion and viscoelastic properties of thermoplastic polyurethanes. EXPRESS Polymer Letters, 2015, 9, 166-176.	2.1	25
41	Supercritical CO ₂ 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
42	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
43	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
44	Mechanical performance of polylactic based formulations. , 2015, , 17-37.		3
45	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
46	Impact of solvents and supercritical CO ₂ drying on the morphology and structure of polymer-based biofilms. , 2014, , .		0
47	Immobilization of natural anti-oxidants on carbon nanotubes and aging behavior of ultra-high molecular weight polyethylene-based nanocomposites. , 2014, , .		4
48	Melt state dynamics of plate-like nanoparticles in immiscible polymer blends. , 2014, , .		0
49	Effectiveness of organoclays as compatibilizers for multiphase polymer blends “ A sustainable route for the mechanical recycling of co-mingled plastics. AIP Conference Proceedings, 2014, , .	0.4	4
50	Heat-Resistant Fully Bio-Based Nanocomposite Blends Based on Poly(lactic acid). Macromolecular Materials and Engineering, 2014, 299, 31-40.	3.6	60
51	Assembly of plate-like nanoparticles in immiscible polymer blends “ effect of the presence of a preferred liquid-liquid interface. Soft Matter, 2014, 10, 3183.	2.7	30
52	Functionalization of aliphatic polyesters by nitroxide radical coupling. Polymer Chemistry, 2014, 5, 5656.	3.9	20
53	Nanoparticle-induced co-continuity in immiscible polymer blends “ A comparative study on bio-based PLA-PA11 blends filled with organoclay, sepiolite, and carbon nanotubes. Polymer, 2014, 55, 4908-4919.	3.8	98
54	α -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

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55	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, 1359-1366.	1.5	6
56	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.	7.8	20
57	Clay-filled bio-based blends of poly(lactic acid) and polyamide 11. , 2012, , .		2
58	Linear viscoelasticity of polymer-graphite nanoplatelets (GNPs) nanocomposites. , 2012, , .		1
59	Effect of the aggregate morphology on the dispersability of MWCNTs in polymer melts. , 2012, , .		0
60	A Unifying Approach for the Linear Viscoelasticity of Polymer Nanocomposites. <i>Macromolecules</i> , 2012, 45, 8853-8860.	4.8	69
61	Clustering of Coated Droplets in Clay-Filled Polymer Blends. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 923-928.	3.6	25
62	Elasticity and structure of weak graphite nanoplatelet (GNP) networks in polymer matrices through viscoelastic analyses. <i>Polymer</i> , 2012, 53, 2699-2704.	3.8	28
63	Universal Features of the Melt Elasticity of Interacting Polymer Nanocomposites. <i>Langmuir</i> , 2012, 28, 5458-5463.	3.5	31
64	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.	3.6	26
65	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.	2.6	11
66	Viscoelasticity and Structure of Polystyrene/Fumed Silica Nanocomposites: Filler Network and Hydrodynamic Contributions. <i>Langmuir</i> , 2010, 26, 2714-2720.	3.5	64
67	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.	5.8	38
68	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.	3.8	82
69	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.	2.1	41
70	Effect of the Compounding Procedure on the Structure and Viscoelasticity of Polymer Nanocomposites. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	1
71	Impact of Nanoparticles on the Microstructure and Properties of Immiscible Polymer Blends: Preliminary Investigations. , 2010, , .		1
72	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.	3.3	24

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73	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.	3.8	121
74	Elasticity and dynamics of particle gels in non-Newtonian melts. <i>Rheologica Acta</i> , 2008, 47, 989-997.	2.4	38
75	ELASTICITY AND DYNAMICS OF PARTICLE GELS IN NON-NEWTONIAN MELTS. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	4
76	EFFECT OF ORGANOCCLAY ON THE MORPHOLOGY AND MECHANICAL PROPERTIES OF LDPE/PA11 BLENDS. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
77	Rheological Aspects of PP-TiO ₂ Micro and Nanocomposites: A Preliminary Investigation. <i>Macromolecular Symposia</i> , 2007, 247, 59-66.	0.7	27
78	Dynamics of Stress Bearing Particle Networks in Poly(propylene)/Alumina Nanohybrids. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 347-353.	3.6	15
79	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.	3.8	37
80	Structure and dynamics of polyethylene/clay films. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4749-4758.	2.6	29
81	Manufacturing of bio-polyamide 11/basalt thermoplastic laminates by hot compaction: The key-role of matrix rheology. <i>Journal of Thermoplastic Composite Materials</i> , 0, , 089270572110702.	4.2	5