

Giovanni Filippone

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4493861/publications.pdf>

Version: 2024-02-01

81
papers

2,315
citations

201385

27
h-index

223531

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 “Challenges and opportunities. European Polymer Journal, 2016, 79, 198-218.	2.6	190
2	Poly(lactide (PLA) Filaments a Biobased Solution for Additive Manufacturing: Correlating Rheology and Thermomechanical Properties with Printing Quality. Materials, 2018, 11, 1191.	1.3	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.	1.8	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.	5.1	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.	3.8	99
6	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.	1.8	98
7	Chitosan hydrogels embedding hyper-crosslinked polymer particles as reusable broad-spectrum adsorbents for dye removal. Carbohydrate Polymers, 2017, 177, 347-354.	5.1	93
8	Using organoclay to promote morphology refinement and co-continuity in high-density polyethylene/polyamide 6 blends “Effect of filler content and polymer matrix composition. Polymer, 2010, 51, 3956-3965.	1.8	82
9	A Unifying Approach for the Linear Viscoelasticity of Polymer Nanocomposites. Macromolecules, 2012, 45, 8853-8860.	2.2	69
10	Viscoelasticity and Structure of Polystyrene/Fumed Silica Nanocomposites: Filler Network and Hydrodynamic Contributions. Langmuir, 2010, 26, 2714-2720.	1.6	64
11	Heat-Resistant Fully Bio-Based Nanocomposite Blends Based on Poly(lactic acid). Macromolecular Materials and Engineering, 2014, 299, 31-40.	1.7	60
12	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.	1.8	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.	5.4	48
14	Thermally activated multiple self-healing diels-alder epoxy system. Polymer Engineering and Science, 2017, 57, 674-679.	1.5	42
15	Selective localization of organoclay and effects on the morphology and mechanical properties of LDPE/PA11 blends with distributed and co-continuous morphology. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 600-609.	2.4	41
16	Natural fiber-induced degradation in PLA-hemp biocomposites in the molten state. Composites Part A: Applied Science and Manufacturing, 2020, 137, 105990.	3.8	40
17	Elasticity and dynamics of particle gels in non-Newtonian melts. Rheologica Acta, 2008, 47, 989-997.	1.1	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.	2.7	38

#	ARTICLE	IF	CITATIONS
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. <i>Polymer</i> , 2015, 73, 102-110.	1.8	38
20	Light-responsive and self-healing behavior of azobenzene-based supramolecular hydrogels. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 16-24.	5.0	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. <i>Polymer</i> , 2007, 48, 564-573.	1.8	37
22	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.	5.9	37
23	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.	2.7	36
24	Universal Features of the Melt Elasticity of Interacting Polymer Nanocomposites. <i>Langmuir</i> , 2012, 28, 5458-5463.	1.6	31
25	Dispersing hydrophilic nanoparticles in hydrophobic polymers: HDPE/ZnO nanocomposites by a novel template-based approach. <i>EXPRESS Polymer Letters</i> , 2014, 8, 362-372.	1.1	31
26	Assembly of plate-like nanoparticles in immiscible polymer blends â€“ effect of the presence of a preferred liquidâ€“liquid interface. <i>Soft Matter</i> , 2014, 10, 3183.	1.2	30
27	Structure and dynamics of polyethylene/clay films. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4749-4758.	1.3	29
28	Elasticity and structure of weak graphite nanoplatelet (GNP) networks in polymer matrices through viscoelastic analyses. <i>Polymer</i> , 2012, 53, 2699-2704.	1.8	28
29	Rheological Aspects of PP-TiO ₂ Micro and Nanocomposites: A Preliminary Investigation. <i>Macromolecular Symposia</i> , 2007, 247, 59-66.	0.4	27
30	Tailoring gas permeation and dielectric properties of bromobutyl rubber â€“ Graphene oxide nanocomposites by inducing an ordered nanofiller microstructure. <i>Composites Part B: Engineering</i> , 2017, 116, 361-368.	5.9	27
31	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.	1.8	27
32	Mechanically Coherent Zeolite 13X/Chitosan Aerogel Beads for Effective CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20728-20734.	4.0	27
33	Role of Interface Rheology in Altering the Onset of Coâ€“Continuity in Nanoparticleâ€“Filled Polymer Blends. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 658-665.	1.7	26
34	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.	1.2	26
35	Clustering of Coated Droplets in Clayâ€“Filled Polymer Blends. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 923-928.	1.7	25
36	Solid particle erosion and viscoelastic properties of thermoplastic polyurethanes. <i>EXPRESS Polymer Letters</i> , 2015, 9, 166-176.	1.1	25

#	ARTICLE	IF	CITATIONS
37	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.	1.7	24
38	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.	3.8	20
39	Functionalization of aliphatic polyesters by nitroxide radical coupling. <i>Polymer Chemistry</i> , 2014, 5, 5656.	1.9	20
40	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.	2.4	20
41	Viscoelastic and equilibrium shear properties of human meniscus: Relationships with tissue structure and composition. <i>Journal of Biomechanics</i> , 2021, 120, 110343.	0.9	20
42	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.	4.6	20
43	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.	2.6	19
44	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, .	1.3	16
45	Dynamics of Stress Bearing Particle Networks in Poly(propylene)/Alumina Nanohybrids. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 347-353.	1.7	15
46	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.	1.5	15
47	Chitosan/Zeolite Composite Aerogels for a Fast and Effective Removal of Both Anionic and Cationic Dyes from Water. <i>Polymers</i> , 2021, 13, 1691.	2.0	14
48	Recycled (Bio)Plastics and (Bio)Plastic Composites: A Trade Opportunity in a Green Future. <i>Polymers</i> , 2022, 14, 2038.	2.0	14
49	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. <i>Polymer International</i> , 2016, 65, 48-56.	1.6	13
50	Surface Morphology, Crystallinity, and Hydrophilicity of Poly(ϵ -caprolactone) Films Prepared Via Casting of Ethyl Lactate and Ethyl Acetate Solutions. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 49-58.	1.1	12
51	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.	1.3	11
52	Flexural Properties and Low-Velocity Impact Behavior of Polyamide 11/Basalt Fiber Fabric Laminates. <i>Polymers</i> , 2021, 13, 1055.	2.0	10
53	Tailoring Chitosan/LTA Zeolite Hybrid Aerogels for Anionic and Cationic Dye Adsorption. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5535.	1.8	10
54	Rheology of complex fluids with vibrating fiber-optic sensors. <i>Sensors and Actuators A: Physical</i> , 2017, 264, 219-223.	2.0	9

#	ARTICLE	IF	CITATIONS
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.	3.2	9
56	Using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the characterization of functionalized carbon nanotubes. Rapid Communications in Mass Spectrometry, 2013, 27, 1359-1366.	0.7	6
57	Insight on mendable resin made by combining Diels-Alder epoxy adducts with DGEBA. AIP Conference Proceedings, 2016, , .	0.3	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.	2.6	5
59	ELASTICITY AND DYNAMICS OF PARTICLE GELS IN NON-NEWTONIAN MELTS. AIP Conference Proceedings, 2008, , .	0.3	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 – A sustainable route for the mechanical recycling of co-mingled plastics. AIP Conference Proceedings, 2014, , .	0.3	4
62	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.	1.7	4
63	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.	1.6	4
64	Interfacially-Located Nanoparticles Anticipate the Onset of Co-Continuity in Immiscible Polymer Blends. Polymers, 2017, 9, 393.	2.0	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.	2.0	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.	1.1	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.	1.5	2
70	Influence of alkaline treatment on hemp fibers filled poly(lactic acid). AIP Conference Proceedings, 2018, , .	0.3	2
71	Effect of the Compounding Procedure on the Structure and Viscoelasticity of Polymer Nanocomposites. AIP Conference Proceedings, 2010, , .	0.3	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, , .	0.3	1
75	Chitosan-based hydrogel for dye removal from aqueous solutions: Optimization of the preparation procedure. AIP Conference Proceedings, 2016, , .	0.3	1
76	Mechanical properties and reprocessability of Diels-Alder based reversible networks from furan modified resins. Journal of Applied Polymer Science, 2022, 139, .	1.3	1
77	EFFECT OF ORGANOCLAY ON THE MORPHOLOGY AND MECHANICAL PROPERTIES OF LDPE/PA11 BLENDS. AIP Conference Proceedings, 2008, , .	0.3	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, , .	0.3	0