

Salvatore Iannace

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108
papers

3,603
citations

34
h-index

57
g-index

120
ext. papers

3,976
ext. citations

4.1
avg, IF

5.29
L-index

#	Paper	IF	Citations
108	Poly(lactic acid)/organoclay nanocomposites: Thermal, rheological properties and foam processing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 689-698	2.6	202
107	Reactively Modified Poly(lactic acid): Properties and Foam Processing. <i>Macromolecular Materials and Engineering</i> , 2005 , 290, 1083-1090	3.9	173
106	Nanocomposites by melt intercalation based on polycaprolactone and organoclay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 670-678	2.6	167
105	Processing and shelf life issues of selected food packaging materials and structures from renewable resources. <i>Trends in Food Science and Technology</i> , 2011 , 22, 72-80	15.3	133
104	Effect of basalt fiber hybridization on the impact behavior under low impact velocity of glass/basalt woven fabric/epoxy resin composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 47, 109-123	8.4	132
103	Isothermal crystallization in PCL/clay nanocomposites investigated with thermal and rheometric methods. <i>Polymer</i> , 2004 , 45, 8893-8900	3.9	129
102	Hybrid composites based on aramid and basalt woven fabrics: Impact damage modes and residual flexural properties. <i>Materials & Design</i> , 2013 , 49, 290-302		111
101	Structure optimization of polycaprolactone foams by using mixtures of CO ₂ and N ₂ as blowing agents. <i>Polymer Engineering and Science</i> , 2005 , 45, 432-441	2.3	100
100	Design of porous polymeric scaffolds by gas foaming of heterogeneous blends. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 2043-51	4.5	99
99	Geopolymerization reaction to consolidate incoherent pozzolanic soil. <i>Journal of Materials Science</i> , 2008 , 43, 865-873	4.3	98
98	Solid-state supercritical CO ₂ foaming of PCL and PCL-HA nano-composite: Effect of composition, thermal history and foaming process on foam pore structure. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 158-167	4.2	80
97	Relationship between processing and properties of biodegradable composites based on PCL/starch matrix and sisal fibers. <i>Polymer Composites</i> , 2001 , 22, 104-110	3	76
96	Marine Collagen from Alternative and Sustainable Sources: Extraction, Processing and Applications. <i>Marine Drugs</i> , 2020 , 18,	6	73
95	Effect of processing conditions on dimensions of sisal fibers in thermoplastic biodegradable composites. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 1084-1091	2.9	70
94	Tailoring the pore structure of PCL scaffolds for tissue engineering prepared via gas foaming of multi-phase blends. <i>Journal of Porous Materials</i> , 2012 , 19, 181-188	2.4	67
93	Open-pore biodegradable foams prepared via gas foaming and microparticulate templating. <i>Macromolecular Bioscience</i> , 2008 , 8, 655-64	5.5	67
92	Detailed analysis of dynamic mechanical properties of TPU nanocomposite: The role of the interfaces. <i>European Polymer Journal</i> , 2011 , 47, 925-936	5.2	66

91	Novel 3D porous multi-phase composite scaffolds based on PCL, thermoplastic zein and ha prepared via supercritical CO ₂ foaming for bone regeneration. <i>Composites Science and Technology</i> , 2010 , 70, 1838-1846	8.6	66
90	Design of bimodal PCL and PCL-HA nanocomposite scaffolds by two step depressurization during solid-state supercritical CO ₂ foaming. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1150-6	4.8	65
89	Processing/structure/property relationship of multi-scaled PCL and PCL-HA composite scaffolds prepared via gas foaming and NaCl reverse templating. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 963-76	4.9	58
88	Polyurethane-silica hybrid foam by sol-gel approach: Chemical and functional properties. <i>Polymer</i> , 2015 , 56, 20-28	3.9	57
87	Effect of molecular structure on film blowing ability of thermoplastic zein. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 277-287	2.9	56
86	Synthesis and characterization of starch-based polyurethane foams. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 739-745	2.9	54
85	Conventional and nanometric nucleating agents in poly(ϵ -caprolactone) foaming: Crystals vs. bubbles nucleation. <i>Polymer Engineering and Science</i> , 2008 , 48, 336-344	2.3	54
84	Effect of supramolecular structures on thermoplastic zein-lignin bionanocomposites. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10062-70	5.7	45
83	Engineered mu-bimodal poly(ϵ -caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. <i>Acta Biomaterialia</i> , 2009 , 5, 1082-93	10.8	45
82	Poly(ethylene terephthalate) foams: Correlation between the polymer properties and the foaming process. <i>Journal of Applied Polymer Science</i> , 2010 , 116, 27-35	2.9	45
81	Hydration-induced reinforcement of rigid polyurethane foam foams: The effect of the co-continuous morphology on the thermal-oxidative stability. <i>Polymer Degradation and Stability</i> , 2013 , 98, 64-72	4.7	42
80	Synergistic effect of vegetable protein and silicon addition on geopolymeric foams properties. <i>Journal of Materials Science</i> , 2015 , 50, 2459-2466	4.3	39
79	Influence of low velocity impact on fatigue behaviour of woven hemp fibre reinforced epoxy composites. <i>Composites Part B: Engineering</i> , 2014 , 66, 46-57	10	38
78	Nanosheets of MoS ₂ -oleylamine as hybrid filler for self-lubricating polymer composites: Thermal, tribological, and mechanical properties. <i>Polymer Composites</i> , 2015 , 36, 1124-1134	3	36
77	Foaming of Synthetic and Natural Biodegradable Polymers. <i>Journal of Cellular Plastics</i> , 2007 , 43, 123-133	1.5	36
76	Sorption Thermodynamics and Mutual Diffusivity of Carbon Dioxide in Molten Polycaprolactone. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4398-4405	3.9	35
75	Architecture and properties of bi-modal porous scaffolds for bone regeneration prepared via supercritical CO ₂ foaming and porogen leaching combined process. <i>Journal of Supercritical Fluids</i> , 2012 , 67, 114-122	4.2	34
74	Solubility, mutual diffusivity, specific volume and interfacial tension of molten PCL/CO ₂ solutions by a fully experimental procedure: effect of pressure and temperature. <i>Journal of Supercritical Fluids</i> , 2012 , 67, 131-138	4.2	34

73	Microcellular foams from high performance miscible blends based on PEEK and PEI. <i>European Polymer Journal</i> , 2016 , 78, 116-128	5.2	33
72	Design and preparation of bimodal porous scaffold for tissue engineering. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 3335-3342	2.9	32
71	Structure development during crystallization of polycaprolactone. <i>Rheologica Acta</i> , 2006 , 45, 387-392	2.3	29
70	Dielectric Properties of Sustainable Nanocomposites Based on Zein Protein and Lignin for Biodegradable Insulators. <i>Advanced Functional Materials</i> , 2017 , 27, 1605142	15.6	28
69	Thermoplastic Foams from Zein and Gelatin. <i>International Polymer Processing</i> , 2007 , 22, 480-488	1	28
68	Simultaneous experimental evaluation of solubility, diffusivity, interfacial tension and specific volume of polymer/gas solutions. <i>Polymer Testing</i> , 2011 , 30, 303-309	4.5	26
67	Microstructure, degradation and in vitro MG63 cells interactions of a new poly(ϵ -caprolactone), zein, and hydroxyapatite composite for bone tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2012 , 27, 210-226	2	26
66	Design of novel three-phase PCL/TZ-HA biomaterials for use in bone regeneration applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2569-81	4.5	26
65	Functional Zein/Siloxane Bio-Hybrids. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 254-263	8.3	25
64	Hybrid geopolymeric foams with diatomite addition: Effect on chemico-physical properties. <i>Journal of Cellular Plastics</i> , 2017 , 53, 525-536	1.5	24
63	Bio-based flexible polyurethane foams derived from succinic polyol: Mechanical and acoustic performances. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45113	2.9	24
62	Engineering of Foamed Structures for Biomedical Application. <i>Journal of Cellular Plastics</i> , 2009 , 45, 103-117	1.7	24
61	Isothermal crystallization kinetics of chain-extended PET. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 1966-1972	2.6	24
60	A novel hybrid PU-alumina flexible foam with superior hydrophilicity and adsorption of carcinogenic compounds from tobacco smoke. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 79-87	5.3	23
59	Investigation of Thermoplasticity of Zein and Kafirin Proteins: Mixing Process and Mechanical Properties. <i>Journal of Polymers and the Environment</i> , 2010 , 18, 626-633	4.5	23
58	Hydration-induced reinforcement of rigid polyurethane foam foams: mechanical and functional properties. <i>Journal of Materials Science</i> , 2012 , 47, 6948-6957	4.3	22
57	Greener Nanocomposite Polyurethane Foam Based on Sustainable Polyol and Natural Fillers: Investigation of Chemico-Physical and Mechanical Properties. <i>Materials</i> , 2020 , 13,	3.5	21
56	Mechanical behavior of solid and foamed polyester/expanded graphite nanocomposites. <i>Journal of Cellular Plastics</i> , 2012 , 48, 355-368	1.5	21

55	Polyurethane- ement -based foams: Characterization and potential uses. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 1-8	2.9	21
54	Polystyrene Foaming at High Pressure Drop Rates. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5696-5701	3.9	21
53	Cycle stability and dielectric properties of a new biodegradable energy storage material. <i>Nano Energy</i> , 2015 , 17, 348-355	17.1	19
52	Polyurethane-Based Composites: Effects of Antibacterial Fillers on the Physical-Mechanical Behavior of Thermoplastic Polyurethanes. <i>Polymers</i> , 2020 , 12,	4.5	18
51	The role of protein-plasticizer-filler interactions on processing and properties of thermoplastic zein bionanocomposites. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E314-E323	2.9	18
50	A simple method to predict high strain rates mechanical behavior of low interconnected cell foams. <i>Polymer Testing</i> , 2007 , 26, 878-885	4.5	18
49	Process-structure Relationships in PCL Foaming. <i>Journal of Cellular Plastics</i> , 2008 , 44, 37-52	1.5	17
48	Lightweight Poly(ϵ -Caprolactone) Composites with Surface Modified Hollow Glass Microspheres for Use in Rotational Molding: Thermal, Rheological and Mechanical Properties. <i>Polymers</i> , 2019 , 11,	4.5	16
47	Thermal behavior and morphological and rheological properties of polypropylene and novel elastomeric ethylene copolymer blends. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 3430-3439	2.9	16
46	Hollow micro- and nano-particles by gas foaming. <i>Nano Research</i> , 2014 , 7, 1018-1026	10	15
45	A predictive approach based on the Simha-Somcynsky free-volume theory for the effect of dissolved gas on viscosity and glass transition temperature of polymeric mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1863-1873	2.6	15
44	Vegetable Tannin as a Sustainable UV Stabilizer for Polyurethane Foams. <i>Polymers</i> , 2019 , 11,	4.5	14
43	Control of micro- and nanocellular structures in CO ₂ foamed PES/PEN blends. <i>Polymer Engineering and Science</i> , 2015 , 55, 1281-1289	2.3	14
42	Foaming behavior of bio-based blends based on thermoplastic gelatin and poly(butylene succinate). <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	13
41	Thermoplastic Processing of Blue Maize and White Sorghum Flours to Produce Bioplastics. <i>Journal of Polymers and the Environment</i> , 2015 , 23, 72-82	4.5	13
40	Strategies to Produce Thermoplastic Starch-Zein Blends: Effect on Compatibilization. <i>Journal of Polymers and the Environment</i> , 2014 , 22, 508-524	4.5	13
39	Polyether polyol/CO ₂ solutions: Solubility, mutual diffusivity, specific volume and interfacial tension by coupled gravimetry-Axisymmetric Drop Shape Analysis. <i>Fluid Phase Equilibria</i> , 2016 , 425, 342-350	3.5	13
38	Insight into bubble nucleation at high-pressure drop rate. <i>Journal of Cellular Plastics</i> , 2017 , 53, 551-560	1.5	12

37	Effect of two kinds of lignins, alkaline lignin and sodium lignosulfonate, on the foamability of thermoplastic zein-based bionanocomposites. <i>Journal of Cellular Plastics</i> , 2012 , 48, 516-525	1.5	12
36	A pressure vessel for studying gas foaming of thermosetting polymers: sorption, synthesis and processing. <i>Polymer Testing</i> , 2017 , 62, 137-142	4.5	11
35	Heterogeneous bubble nucleation in PCL/clay nanocomposite foams. <i>Plastics, Rubber and Composites</i> , 2003 , 32, 313-317	1.5	11
34	Preparation and Characterization of Polyurethane Porous Membranes by Particulate-leaching Method. <i>Frontiers in Forests and Global Change</i> , 2001 , 20, 321-338	1.6	11
33	Mass transport and physical properties of polymeric methylene diphenyl diisocyanate/CO ₂ solutions. <i>Fluid Phase Equilibria</i> , 2018 , 456, 116-123	2.5	10
32	Modelling physical properties of highly crystallized polyester reinforced with multiwalled carbon nanotubes. <i>European Polymer Journal</i> , 2012 , 48, 26-40	5.2	9
31	Scaffolds with tubular/isotropic Bi-modal pore structures by gas foaming and fiber templating. <i>Materials Letters</i> , 2013 , 93, 157-160	3.3	9
30	Effect of Molecular Modification on PCL Foam Formation and Morphology of PCL. <i>Macromolecular Symposia</i> , 2005 , 228, 219-228	0.8	9
29	Polyurethane synthesis under high-pressure CO ₂ , a FT-NIR study. <i>European Polymer Journal</i> , 2019 , 115, 364-374	5.2	8
28	Thermoplastic composites based on poly(ethylene 2,6-naphthalate) and basalt woven fabrics: Static and dynamic mechanical properties. <i>Polymer Composites</i> , 2016 , 37, 2549-2556	3	7
27	Supercritical CO ₂ foaming of thermoplastic materials derived from maize: proof-of-concept use in mammalian cell culture applications. <i>PLoS ONE</i> , 2015 , 10, e0122489	3.7	6
26	Bio-hybrid foams by silsesquioxanes cross-linked thermoplastic zein films. <i>Journal of Cellular Plastics</i> , 2015 , 51, 75-87	1.5	6
25	Gelatin/graphene systems for low cost energy storage 2014 ,		6
24	Curing characteristics and mechanical properties of carbon fiber-interlayered fabric composites based on a polyurethane matrix. <i>Advances in Polymer Technology</i> , 2007 , 26, 132-145	1.9	6
23	Aerogel-like polysiloxane-polyurethane hybrid foams with enhanced mechanical and thermal-insulating properties. <i>Composites Science and Technology</i> , 2021 , 213, 108917	8.6	6
22	Preliminary investigation of polystyrene/MoS ₂ -Oleylamine polymer composite for potential application as low-dielectric material in microelectronics 2015 ,		5
21	Microcellular foaming of arabinosyl and PEGylated arabinosyl with supercritical CO ₂ . <i>Carbohydrate Polymers</i> , 2018 , 181, 442-449	10.3	4
20	Polystyrene/MoS ₂ @oleylamine nanocomposites 2014 ,		4

19	Recycling and recovery of PE-PP-PET-based fiber polymeric wastes as aggregate replacement in lightweight mortar: Evaluation of environmental friendly application. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, n/a-n/a	2.5	4
18	Electrical Characterization and Modeling of a Gelatin/Graphene System. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-5	1	3
17	Interface Dissipative Mechanisms in an Elastomeric Matrix Reinforced with MWCNTs. <i>Macromolecular Theory and Simulations</i> , 2013 , 22, 198-206	1.5	3
16	Cellulose based hybrid hydroxylated adducts for polyurethane foams 2012 ,		3
15	Osteogenic differentiation of CD271(+) cells from rabbit bone marrow cultured on three phase PCL/TZ-HA bioactive scaffolds: comparative study with mesenchymal stem cells (MSCs). <i>International Journal of Clinical and Experimental Medicine</i> , 2015 , 8, 13154-62		3
14	Foams and their applications. <i>Supercritical Fluid Science and Technology</i> , 2021 , 9, 1-20		2
13	SmartFoams with magneto-sensitive elastic behavior 2014 ,		1
12	Biodegradable Composites 2012 , 1		1
11	Lightweight polyethylene-hollow glass microspheres composites for rotational molding technology. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49766	2.9	1
10	Reinforcing poly(ϵ -caprolactone) with hollow glass microspheres and hemp fibers [Morphological, rheological and mechanical properties 2018 ,		1
9	Light weight LDPE composites with surface modified hollow glass microspheres 2018 ,		1
8	New Materials for Ecological Building Products. <i>Advanced Structured Materials</i> , 2013 , 203-215	0.6	0
7	Gas foaming with physical blowing agents. <i>Supercritical Fluid Science and Technology</i> , 2021 , 9, 33-54		0
6	Bio-Based and Bio-Inspired Cellular Materials 2015 , 1-37		
5	Foamed Cores 2012 , 1		
4	Batch processing. <i>Supercritical Fluid Science and Technology</i> , 2021 , 9, 389-410		
3	Sorption thermodynamics of low molecular weight compounds in polymers. <i>Supercritical Fluid Science and Technology</i> , 2021 , 9, 69-177		
2	Rheological properties. <i>Supercritical Fluid Science and Technology</i> , 2021 , 9, 263-283		

- 1 Foaming Analysis of Poly(ϵ -Caprolactone) and Poly(Lactic Acid) and Their Nanocomposites **2008**, 143-174