Salvatore Iannace

List of Publications by Year in Descending Order

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	Batch processing. *Supercritical Fluid Science and Technology*, **2021**, 9, 389-410		
107	Sorption thermodynamics of low molecular weight compounds in polymers. *Supercritical Fluid Science and Technology*, **2021**, 9, 69-177		
106	Gas foaming with physical blowing agents. *Supercritical Fluid Science and Technology*, **2021**, 9, 33-54		0
105	Rheological properties. *Supercritical Fluid Science and Technology*, **2021**, 9, 263-283		
104	Foams and their applications. *Supercritical Fluid Science and Technology*, **2021**, 9, 1-20		2
103	Lightweight polyethylene-hollow glass microspheres composites for rotational molding technology. *Journal of Applied Polymer Science*, **2021**, 138, 49766	2.9	1
102	Aerogel-like polysiloxane-polyurethane hybrid foams with enhanced mechanical and thermal-insulating properties. *Composites Science and Technology*, **2021**, 213, 108917	8.6	6
101	Polyurethane-Based Composites: Effects of Antibacterial Fillers on the Physical-Mechanical Behavior of Thermoplastic Polyurethanes. *Polymers*, **2020**, 12,	4.5	18
100	Greener Nanocomposite Polyurethane Foam Based on Sustainable Polyol and Natural Fillers: Investigation of Chemico-Physical and Mechanical Properties. *Materials*, **2020**, 13,	3.5	21
99	Marine Collagen from Alternative and Sustainable Sources: Extraction, Processing and Applications. *Marine Drugs*, **2020**, 18,	6	73
98	Vegetable Tannin as a Sustainable UV Stabilizer for Polyurethane Foams. *Polymers*, **2019**, 11,	4.5	14
97	Polyurethane synthesis under high-pressure CO2, a FT-NIR study. *European Polymer Journal*, **2019**, 115, 364-374	5.2	8
96	Lightweight Poly(ε-Caprolactone) Composites with Surface Modified Hollow Glass Microspheres for Use in Rotational Molding: Thermal, Rheological and Mechanical Properties. *Polymers*, **2019**, 11,	4.5	16
95	Mass transport and physical properties of polymeric methylene diphenyl diisocyanate/CO 2 solutions. *Fluid Phase Equilibria*, **2018**, 456, 116-123	2.5	10
94	Microcellular foaming of arabinoxylan and PEGylated arabinoxylan with supercritical CO. *Carbohydrate Polymers*, **2018**, 181, 442-449	10.3	4
93	Reinforcing poly(ε-caprolactone) with hollow glass microspheres and hemp fibers Morphological, rheological and mechanical properties **2018**,		1
92	Light weight LDPE composites with surface modified hollow glass microspheres **2018**,		1

91	Dielectric Properties of Sustainable Nanocomposites Based on Zein Protein and Lignin for Biodegradable Insulators. *Advanced Functional Materials*, **2017**, 27, 1605142	15.6	28
90	Insight into bubble nucleation at high-pressure drop rate. *Journal of Cellular Plastics*, **2017**, 53, 551-560	1.5	12
89	Hybrid geopolymeric foams with diatomite addition: Effect on chemico-physical properties. *Journal of Cellular Plastics*, **2017**, 53, 525-536	1.5	24
88	Bio-based flexible polyurethane foams derived from succinic polyol: Mechanical and acoustic performances. *Journal of Applied Polymer Science*, **2017**, 134, 45113	2.9	24
87	A pressure vessel for studying gas foaming of thermosetting polymers: sorption, synthesis and processing. *Polymer Testing*, **2017**, 62, 137-142	4.5	11
86	Microcellular foams from high performance miscible blends based on PEEK and PEI. *European Polymer Journal*, **2016**, 78, 116-128	5.2	33
85	Thermoplastic composites based on poly(ethylene 2,6-naphthalate) and basalt woven fabrics: Static and dynamic mechanical properties. *Polymer Composites*, **2016**, 37, 2549-2556	3	7
84	Polystyrene Foaming at High Pressure Drop Rates. *Industrial & Engineering Chemistry Research*, **2016**, 55, 5696-5701	3.9	21
83	Polyether polyol/CO2 solutions: Solubility, mutual diffusivity, specific volume and interfacial tension by coupled gravimetry-Axisymmetric Drop Shape Analysis. *Fluid Phase Equilibria*, **2016**, 425, 342-350	2.5	13
82	Synergistic effect of vegetable protein and silicon addition on geopolymeric foams properties. *Journal of Materials Science*, **2015**, 50, 2459-2466	4.3	39
81	Nanosheets of MoS2-oleylamine as hybrid filler for self-lubricating polymer composites: Thermal, tribological, and mechanical properties. *Polymer Composites*, **2015**, 36, 1124-1134	3	36
80	Cycle stability and dielectric properties of a new biodegradable energy storage material. *Nano Energy*, **2015**, 17, 348-355	17.1	19
79	Polyurethane-silica hybrid foam by sol□gel approach: Chemical and functional properties. *Polymer*, **2015**, 56, 20-28	3.9	57
78	Bio-Based and Bio-Inspired Cellular Materials **2015**, 1-37		
77	Preliminary investigation of polystyrene/MoS2-Oleylamine polymer composite for potential application as low-dielectric material in microelectronics **2015**,		5
76	Control of micro- and nanocellular structures in CO2 foamed PES/PEN blends. *Polymer Engineering and Science*, **2015**, 55, 1281-1289	2.3	14
75	Foaming behavior of bio-based blends based on thermoplastic gelatin and poly(butylene succinate). *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	13
74	Supercritical CO2 foaming of thermoplastic materials derived from maize: proof-of-concept use in mammalian cell culture applications. *PLoS ONE*, **2015**, 10, e0122489	3.7	6

73	Electrical Characterization and Modeling of a Gelatin/Graphene System. *Advances in Condensed Matter Physics*, **2015**, 2015, 1-5	1	3
72	Bio-hybrid foams by silsesquioxanes cross-linked thermoplastic zein films. *Journal of Cellular Plastics*, **2015**, 51, 75-87	1.5	6
71	Thermoplastic Processing of Blue Maize and White Sorghum Flours to Produce Bioplastics. *Journal of Polymers and the Environment*, **2015**, 23, 72-82	4.5	13
70	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). *International Journal of Clinical and Experimental Medicine*, **2015**, 8, 13154-62		3
69	Influence of low velocity impact on fatigue behaviour of woven hemp fibre reinforced epoxy composites. *Composites Part B: Engineering*, **2014**, 66, 46-57	10	38
68	Hollow micro- and nano-particles by gas foaming. *Nano Research*, **2014**, 7, 1018-1026	10	15
67	Functional Zein□Siloxane Bio-Hybrids. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 254-263	8.3	25
66	Strategies to Produce Thermoplastic Starch□Zein Blends: Effect on Compatibilization. *Journal of Polymers and the Environment*, **2014**, 22, 508-524	4.5	13
65	Gelatin/graphene systems for low cost energy storage **2014**,		6
64	SmartFoams with magneto-sensitive elastic behavior **2014**,		1
63	Polystyrene/MoS2@oleylamine nanocomposites **2014**,		4
62	Recycling and recovery of PE-PP-PET-based fiber polymeric wastes as aggregate replacement in lightweight mortar: Evaluation of environmental friendly application. *Environmental Progress and Sustainable Energy*, **2014**, 33, n/a-n/a	2.5	4
61	Effect of basalt fiber hybridization on the impact behavior under low impact velocity of glass/basalt woven fabric/epoxy resin composites. *Composites Part A: Applied Science and Manufacturing*, **2013**, 47, 109-123	8.4	132
60	Scaffolds with tubular/isotropic Bi-modal pore structures by gas foaming and fiber templating. *Materials Letters*, **2013**, 93, 157-160	3.3	9
59	Hydration-induced reinforcement of rigid polyurethane□ement foams: The effect of the co-continuous morphology on the thermal-oxidative stability. *Polymer Degradation and Stability*, **2013**, 98, 64-72	4.7	42
58	Hybrid composites based on aramid and basalt woven fabrics: Impact damage modes and residual flexural properties. *Materials & Design*, **2013**, 49, 290-302		111
57	Interface Dissipative Mechanisms in an Elastomeric Matrix Reinforced with MWCNTs. *Macromolecular Theory and Simulations*, **2013**, 22, 198-206	1.5	3
56	New Materials for Ecological Building Products. *Advanced Structured Materials*, **2013**, 203-215	0.6	0

55	Modelling physical properties of highly crystallized polyester reinforced with multiwalled carbon nanotubes. *European Polymer Journal*, **2012**, 48, 26-40	5.2	9
54	A novel hybrid PU-alumina flexible foam with superior hydrophilicity and adsorption of carcinogenic compounds from tobacco smoke. *Microporous and Mesoporous Materials*, **2012**, 151, 79-87	5.3	23
53	Architecture and properties of bi-modal porous scaffolds for bone regeneration prepared via supercritical CO2 foaming and porogen leaching combined process. *Journal of Supercritical Fluids*, **2012**, 67, 114-122	4.2	34
52	Solubility, mutual diffusivity, specific volume and interfacial tension of molten PCL/CO2 solutions by a fully experimental procedure: effect of pressure and temperature. *Journal of Supercritical Fluids*, **2012**, 67, 131-138	4.2	34
51	Tailoring the pore structure of PCL scaffolds for tissue engineering prepared via gas foaming of multi-phase blends. *Journal of Porous Materials*, **2012**, 19, 181-188	2.4	67
50	Biodegradable Composites **2012**, 1		1
49	Foamed Cores **2012**, 1		
48	The role of protein□plasticizer□lay interactions on processing and properties of thermoplastic zein bionanocomposites. *Journal of Applied Polymer Science*, **2012**, 125, E314-E323	2.9	18
47	Hydration-induced reinforcement of rigid polyurethane□ement foams: mechanical and functional properties. *Journal of Materials Science*, **2012**, 47, 6948-6957	4.3	22
46	Effect of two kinds of lignins, alkaline lignin and sodium lignosulfonate, on the foamability of thermoplastic zein-based bionanocomposites. *Journal of Cellular Plastics*, **2012**, 48, 516-525	1.5	12
45	Mechanical behavior of solid and foamed polyester/expanded graphite nanocomposites. *Journal of Cellular Plastics*, **2012**, 48, 355-368	1.5	21
44	Microstructure, degradation and in vitro MG63 cells interactions of a new poly(□caprolactone), zein, and hydroxyapatite composite for bone tissue engineering. *Journal of Bioactive and Compatible Polymers*, **2012**, 27, 210-226	2	26
43	Cellulose based hybrid hydroxylated adducts for polyurethane foams **2012**,		3
42	Effect of supramolecular structures on thermoplastic zein-lignin bionanocomposites. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 10062-70	5.7	45
41	Processing and shelf life issues of selected food packaging materials and structures from renewable resources. *Trends in Food Science and Technology*, **2011**, 22, 72-80	15.3	133
40	Design of bimodal PCL and PCL-HA nanocomposite scaffolds by two step depressurization during solid-state supercritical CO(2) foaming. *Macromolecular Rapid Communications*, **2011**, 32, 1150-6	4.8	65
39	Processing/structure/property relationship of multi-scaled PCL and PCL-HA composite scaffolds prepared via gas foaming and NaCl reverse templating. *Biotechnology and Bioengineering*, **2011**, 108, 963-76	4.9	58
38	Detailed analysis of dynamic mechanical properties of TPU nanocomposite: The role of the interfaces. *European Polymer Journal*, **2011**, 47, 925-936	5.2	66

37	Simultaneous experimental evaluation of solubility, diffusivity, interfacial tension and specific volume of polymer/gas solutions. *Polymer Testing*, **2011**, 30, 303-309	4.5	26
36	Solid-state supercritical CO2 foaming of PCL and PCL-HA nano-composite: Effect of composition, thermal history and foaming process on foam pore structure. *Journal of Supercritical Fluids*, **2011**, 58, 158-167	4.2	80
35	Design of novel three-phase PCL/TZ-HA biomaterials for use in bone regeneration applications. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 2569-81	4.5	26
34	Investigation of Thermoplasticity of Zein and Kafirin Proteins: Mixing Process and Mechanical Properties. *Journal of Polymers and the Environment*, **2010**, 18, 626-633	4.5	23
33	Effect of molecular structure on film blowing ability of thermoplastic zein. *Journal of Applied Polymer Science*, **2010**, 115, 277-287	2.9	56
32	Poly(ethylene terephthalate) foams: Correlation between the polymer properties and the foaming process. *Journal of Applied Polymer Science*, **2010**, 116, 27-35	2.9	45
31	Novel 3D porous multi-phase composite scaffolds based on PCL, thermoplastic zein and ha prepared via supercritical CO2 foaming for bone regeneration. *Composites Science and Technology*, **2010**, 70, 1838-1846	8.6	66
30	Engineering of Foamed Structures for Biomedical Application. *Journal of Cellular Plastics*, **2009**, 45, 103-117	1.5	24
29	Design of porous polymeric scaffolds by gas foaming of heterogeneous blends. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 2043-51	4.5	99
28	Engineered mu-bimodal poly(epsilon-caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. *Acta Biomaterialia*, **2009**, 5, 1082-93	10.8	45
27	Process-structure Relationships in PCL Foaming. *Journal of Cellular Plastics*, **2008**, 44, 37-52	1.5	17
26	Geopolymerization reaction to consolidate incoherent pozzolanic soil. *Journal of Materials Science*, **2008**, 43, 865-873	4.3	98
25	Conventional and nanometric nucleating agents in poly(?-caprolactone) foaming: Crystals vs. bubbles nucleation. *Polymer Engineering and Science*, **2008**, 48, 336-344	2.3	54
24	Open-pore biodegradable foams prepared via gas foaming and microparticulate templating. *Macromolecular Bioscience*, **2008**, 8, 655-64	5.5	67
23	Polyurethane□ement-based foams: Characterization and potential uses. *Journal of Applied Polymer Science*, **2008**, 107, 1-8	2.9	21
22	Foaming Analysis of Poly(e-Caprolactone) and Poly(Lactic Acid) and Their Nanocomposites **2008**, 143-174		
21	Foaming of Synthetic and Natural Biodegradable Polymers. *Journal of Cellular Plastics*, **2007**, 43, 123-133	1.5	36
20	Design and preparation of □bimodal porous scaffold for tissue engineering. *Journal of Applied Polymer Science*, **2007**, 106, 3335-3342	2.9	32

19	Curing characteristics and mechanical properties of carbon fiber-interlayered fabric composites based on a polyurethane matrix. *Advances in Polymer Technology*, **2007**, 26, 132-145	1.9	6
18	A simple method to predict high strain rates mechanical behavior of low interconnected cell foams. *Polymer Testing*, **2007**, 26, 878-885	4.5	18
17	Thermoplastic Foams from Zein and Gelatin. *International Polymer Processing*, **2007**, 22, 480-488	1	28
16	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. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 1863-1873	2.6	15
15	Structure development during crystallization of polycaprolactone. *Rheologica Acta*, **2006**, 45, 387-392	2.3	29
14	Effect of Molecular Modification on PCL Foam Formation and Morphology of PCL. *Macromolecular Symposia*, **2005**, 228, 219-228	0.8	9
13	Reactively Modified Poly(lactic acid): Properties and Foam Processing. *Macromolecular Materials and Engineering*, **2005**, 290, 1083-1090	3.9	173
12	Poly(lactic acid)/organoclay nanocomposites: Thermal, rheological properties and foam processing. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 689-698	2.6	202
11	Isothermal crystallization kinetics of chain-extended PET. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1966-1972	2.6	24
10	Structure optimization of polycaprolactone foams by using mixtures of CO2 and N2 as blowing agents. *Polymer Engineering and Science*, **2005**, 45, 432-441	2.3	100
9	Isothermal crystallization in PCL/clay nanocomposites investigated with thermal and rheometric methods. *Polymer*, **2004**, 45, 8893-8900	3.9	129
8	Heterogeneous bubble nucleation in PCL/clay nanocomposite foams. *Plastics, Rubber and Composites*, **2003**, 32, 313-317	1.5	11
7	Nanocomposites by melt intercalation based on polycaprolactone and organoclay. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 670-678	2.6	167
6	Sorption Thermodynamics and Mutual Diffusivity of Carbon Dioxide in Molten Polycaprolactone. *Industrial & Engineering Chemistry Research*, **2003**, 42, 4398-4405	3.9	35
5	Thermal behavior and morphological and rheological properties of polypropylene and novel elastomeric ethylene copolymer blends. *Journal of Applied Polymer Science*, **2002**, 86, 3430-3439	2.9	16
4	Relationship between processing and properties of biodegradable composites based on PCL/starch matrix and sisal fibers. *Polymer Composites*, **2001**, 22, 104-110	3	76
3	Effect of processing conditions on dimensions of sisal fibers in thermoplastic biodegradable composites. *Journal of Applied Polymer Science*, **2001**, 79, 1084-1091	2.9	70
2	Preparation and Characterization of Polyurethane Porous Membranes by Particulate-leaching Method. *Frontiers in Forests and Global Change*, **2001**, 20, 321-338	1.6	11

1 Synthesis and characterization of starch-based polyurethane foams. *Journal of Applied Polymer Science*, **1998**, 68, 739-745 2.9 54