

Salvatore Iannace

List of Publications by Year in descending order

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113
papers

4,384
citations

94381

37
h-index

114418

63
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120
all docs

120
docs citations

120
times ranked

4629
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.4	224
2	Reactively Modified Poly(lactic acid): Properties and Foam Processing. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 1083-1090.	1.7	192
3	Nanocomposites by melt intercalation based on polycaprolactone and organoclay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 670-678.	2.4	185
4	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.	7.8	167
5	Marine Collagen from Alternative and Sustainable Sources: Extraction, Processing and Applications. <i>Marine Drugs</i> , 2020, 18, 214.	2.2	165
6	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.	3.8	158
7	Hybrid composites based on aramid and basalt woven fabrics: Impact damage modes and residual flexural properties. <i>Materials & Design</i> , 2013, 49, 290-302.	5.1	141
8	Isothermal crystallization in PCL/clay nanocomposites investigated with thermal and rheometric methods. <i>Polymer</i> , 2004, 45, 8893-8900.	1.8	139
9	Geopolymerization reaction to consolidate incoherent pozzolanic soil. <i>Journal of Materials Science</i> , 2008, 43, 865-873.	1.7	121
10	Design of porous polymeric scaffolds by gas foaming of heterogeneous blends. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 2043-2051.	1.7	112
11	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.	1.5	110
12	Relationship between processing and properties of biodegradable composites based on PCL/starch matrix and sisal fibers. <i>Polymer Composites</i> , 2001, 22, 104-110.	2.3	91
13	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.	1.6	88
14	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.	1.3	86
15	Detailed analysis of dynamic mechanical properties of TPU nanocomposite: The role of the interfaces. <i>European Polymer Journal</i> , 2011, 47, 925-936.	2.6	83
16	Effect of processing conditions on dimensions of sisal fibers in thermoplastic biodegradable composites. <i>Journal of Applied Polymer Science</i> , 2001, 79, 1084-1091.	1.3	81
17	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.	3.8	75
18	Open-Pore Biodegradable Foams Prepared via Gas Foaming and Microparticulate Templating. <i>Macromolecular Bioscience</i> , 2008, 8, 655-664.	2.1	73

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19	Polyurethane-silica hybrid foam by sol-gel approach: Chemical and functional properties. <i>Polymer</i> , 2015, 56, 20-28.	1.8	71
20	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, 963-976.	1.7	70
21	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, 1150-1156.	2.0	68
22	Effect of molecular structure on film blowing ability of thermoplastic zein. <i>Journal of Applied Polymer Science</i> , 2010, 115, 277-287.	1.3	63
23	Synthesis and characterization of starch-based polyurethane foams. <i>Journal of Applied Polymer Science</i> , 1998, 68, 739-745.	1.3	61
24	Conventional and nanometric nucleating agents in poly(ϵ -caprolactone) foaming: Crystals vs. bubbles nucleation. <i>Polymer Engineering and Science</i> , 2008, 48, 336-344.	1.5	59
25	Effect of Supramolecular Structures on Thermoplastic Zein-Lignin Bionanocomposites. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10062-10070.	2.4	56
26	Hydration-induced reinforcement of rigid polyurethane-cement foams: The effect of the co-continuous morphology on the thermal-oxidative stability. <i>Polymer Degradation and Stability</i> , 2013, 98, 64-72.	2.7	55
27	Poly(ethylene terephthalate) foams: Correlation between the polymer properties and the foaming process. <i>Journal of Applied Polymer Science</i> , 2010, 116, 27-35.	1.3	52
28	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.	5.9	51
29	Engineered 1/4-bimodal poly(ϵ -caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. <i>Acta Biomaterialia</i> , 2009, 5, 1082-1093.	4.1	49
30	Synergistic effect of vegetable protein and silicon addition on geopolymeric foams properties. <i>Journal of Materials Science</i> , 2015, 50, 2459-2466.	1.7	48
31	Greener Nanocomposite Polyurethane Foam Based on Sustainable Polyol and Natural Fillers: Investigation of Chemico-Physical and Mechanical Properties. <i>Materials</i> , 2020, 13, 211.	1.3	48
32	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.	2.3	45
33	Microcellular foams from high performance miscible blends based on PEEK and PEI. <i>European Polymer Journal</i> , 2016, 78, 116-128.	2.6	43
34	Dielectric Properties of Sustainable Nanocomposites Based on Zein Protein and Lignin for Biodegradable Insulators. <i>Advanced Functional Materials</i> , 2017, 27, 1605142.	7.8	41
35	Foaming of Synthetic and Natural Biodegradable Polymers. <i>Journal of Cellular Plastics</i> , 2007, 43, 123-133.	1.2	40
36	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.	1.6	39

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37	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.	1.6	38
38	Sorption Thermodynamics and Mutual Diffusivity of Carbon Dioxide in Molten Polycaprolactone. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 4398-4405.	1.8	37
39	Thermoplastic Foams from Zein and Gelatin. <i>International Polymer Processing</i> , 2007, 22, 480-488.	0.3	37
40	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, 624.	2.0	34
41	Design and preparation of ϵ -bimodal porous scaffold for tissue engineering. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3335-3342.	1.3	33
42	Bio-based flexible polyurethane foams derived from succinic polyol: Mechanical and acoustic performances. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45113.	1.3	32
43	Structure development during crystallization of polycaprolactone. <i>Rheologica Acta</i> , 2006, 45, 387-392.	1.1	31
44	Polystyrene Foaming at High Pressure Drop Rates. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5696-5701.	1.8	31
45	Design of novel three-phase PCL/TZ- ϵ -HA biomaterials for use in bone regeneration applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2569-2581.	1.7	30
46	Polyurethane-Based Composites: Effects of Antibacterial Fillers on the Physical-Mechanical Behavior of Thermoplastic Polyurethanes. <i>Polymers</i> , 2020, 12, 362.	2.0	30
47	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.	0.8	29
48	Hydration-induced reinforcement of rigid polyurethane-cement foams: mechanical and functional properties. <i>Journal of Materials Science</i> , 2012, 47, 6948-6957.	1.7	29
49	Functional Zein-Siloxane Bio-Hybrids. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 254-263.	3.2	29
50	Simultaneous experimental evaluation of solubility, diffusivity, interfacial tension and specific volume of polymer/gas solutions. <i>Polymer Testing</i> , 2011, 30, 303-309.	2.3	28
51	Cycle stability and dielectric properties of a new biodegradable energy storage material. <i>Nano Energy</i> , 2015, 17, 348-355.	8.2	28
52	Isothermal crystallization kinetics of chain-extended PET. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1966-1972.	2.4	27
53	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.	2.2	27
54	Hybrid geopolymeric foams with diatomite addition: Effect on chemico-physical properties. <i>Journal of Cellular Plastics</i> , 2017, 53, 525-536.	1.2	27

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55	Engineering of Foamed Structures for Biomedical Application. <i>Journal of Cellular Plastics</i> , 2009, 45, 103-117.	1.2	26
56	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.	2.4	26
57	Vegetable Tannin as a Sustainable UV Stabilizer for Polyurethane Foams. <i>Polymers</i> , 2019, 11, 480.	2.0	25
58	Mechanical behavior of solid and foamed polyester/expanded graphite nanocomposites. <i>Journal of Cellular Plastics</i> , 2012, 48, 355-368.	1.2	24
59	The role of proteinâ€‘plasticizerâ€‘clay interactions on processing and properties of thermoplastic zein bionanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, E314.	1.3	24
60	Polyurethaneâ€‘cementâ€‘based foams: Characterization and potential uses. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1-8.	1.3	22
61	Hollow micro- and nano-particles by gas foaming. <i>Nano Research</i> , 2014, 7, 1018-1026.	5.8	22
62	Process-structure Relationships in PCL Foaming. <i>Journal of Cellular Plastics</i> , 2008, 44, 37-52.	1.2	21
63	â€‘Aerogel-likeâ€‘ polysiloxane-polyurethane hybrid foams with enhanced mechanical and thermal-insulating properties. <i>Composites Science and Technology</i> , 2021, 213, 108917.	3.8	21
64	Foaming behavior of bioâ€‘based blends based on thermoplastic gelatin and poly(butylene succinate). <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	20
65	A simple method to predict high strain rates mechanical behavior of low interconnected cell foams. <i>Polymer Testing</i> , 2007, 26, 878-885.	2.3	18
66	Strategies to Produce Thermoplastic Starchâ€‘Zein Blends: Effect on Compatibilization. <i>Journal of Polymers and the Environment</i> , 2014, 22, 508-524.	2.4	18
67	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.	1.3	17
68	A predictive approach based on the Simhaâ€‘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.	2.4	16
69	Polyether polyol/CO2 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.	1.4	16
70	Preparation and Characterization of Polyurethane Porous Membranes by Particulate-leaching Method. <i>Frontiers in Forests and Global Change</i> , 2001, 20, 321-338.	0.6	15
71	Insight into bubble nucleation at high-pressure drop rate. <i>Journal of Cellular Plastics</i> , 2017, 53, 551-560.	1.2	15
72	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.	1.2	14

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73	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, 1445-1451.	1.3	14
74	Control of micro&nanocellular structures in CO ₂ foamed PES/PEN blends. <i>Polymer Engineering and Science</i> , 2015, 55, 1281-1289.	1.5	14
75	Thermoplastic Processing of Blue Maize and White Sorghum Flours to Produce Bioplastics. <i>Journal of Polymers and the Environment</i> , 2015, 23, 72-82.	2.4	14
76	A pressure vessel for studying gas foaming of thermosetting polymers: sorption, synthesis and processing. <i>Polymer Testing</i> , 2017, 62, 137-142.	2.3	13
77	Mass transport and physical properties of polymeric methylene diphenyl diisocyanate/CO ₂ solutions. <i>Fluid Phase Equilibria</i> , 2018, 456, 116-123.	1.4	12
78	Heterogeneous bubble nucleation in PCL/clay nanocomposite foams. <i>Plastics, Rubber and Composites</i> , 2003, 32, 313-317.	0.9	11
79	Polyurethane synthesis under high-pressure CO ₂ , a FT-NIR study. <i>European Polymer Journal</i> , 2019, 115, 364-374.	2.6	11
80	Effect of Molecular Modification on PCL Foam Formation and Morphology of PCL. <i>Macromolecular Symposia</i> , 2005, 228, 219-228.	0.4	10
81	Modelling physical properties of highly crystallized polyester reinforced with multiwalled carbon nanotubes. <i>European Polymer Journal</i> , 2012, 48, 26-40.	2.6	10
82	Scaffolds with tubular/isotropic Bi-modal pore structures by gas foaming and fiber templating. <i>Materials Letters</i> , 2013, 93, 157-160.	1.3	10
83	Gelatin/graphene systems for low cost energy storage. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	8
84	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.	2.3	8
85	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.	0.8	7
86	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.	1.1	6
87	Bio-hybrid foams by silsesquioxanes cross-linked thermoplastic zein films. <i>Journal of Cellular Plastics</i> , 2015, 51, 75-87.	1.2	6
88	Microcellular foaming of arabinosyloxan and PEGylated arabinosyloxan with supercritical CO ₂ . <i>Carbohydrate Polymers</i> , 2018, 181, 442-449.	5.1	6
89	Preliminary investigation of polystyrene/MoS ₂ -Oleylamine polymer composite for potential application as low-dielectric material in microelectronics. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	5
90	Interface Dissipative Mechanisms in an Elastomeric Matrix Reinforced with MWCNTs. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 198-206.	0.6	4

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91	Polystyrene/MoS ₂ @oleylamine nanocomposites. , 2014, , .		4
92	Electrical Characterization and Modeling of a Gelatin/Graphene System. Advances in Condensed Matter Physics, 2015, 2015, 1-5.	0.4	4
93	Lightweight polyethylene-hollow glass microspheres composites for rotational molding technology. Journal of Applied Polymer Science, 2021, 138, 49766.	1.3	4
94	Cellulose based hybrid hydroxylated adducts for polyurethane foams. AIP Conference Proceedings, 2012, , .	0.3	3
95	Foams and their applications. Supercritical Fluid Science and Technology, 2021, 9, 1-20.	0.5	3
96	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.	1.3	3
97	SmartFoams with magneto-sensitive elastic behavior. AIP Conference Proceedings, 2014, , .	0.3	2
98	Light weight LDPE composites with surface modified hollow glass microspheres. AIP Conference Proceedings, 2018, , .	0.3	2
99	Gas foaming with physical blowing agents. Supercritical Fluid Science and Technology, 2021, 9, 33-54.	0.5	2
100	New Materials for Ecological Building Products. Advanced Structured Materials, 2013, , 203-215.	0.3	1
101	Characterization of poly(butylene succinate)/glycerol co-plasticized thermoplastic gelatin prepared by melt blending. AIP Conference Proceedings, 2015, , .	0.3	1
102	Morphology modulation of gas-foamed, micrometric, hollow polystyrene particles. Journal of Applied Polymer Science, 2016, 133, .	1.3	1
103	Reinforcing poly(μ -caprolactone) with hollow glass microspheres and hemp fibers - Morphological, rheological and mechanical properties. AIP Conference Proceedings, 2018, , .	0.3	1
104	TIMESCALES IN BUBBLE NUCLEATION EVENTS FOR THE FORMATION OF MICROCELLULAR BIODEGRADABLE FOAMS. AIP Conference Proceedings, 2008, , .	0.3	0
105	Microcellular Foams Based on High Performance Thermoplastic Nanocomposites. , 2010, , .		0
106	PS foams at high pressure drop rates. , 2014, , .		0
107	Improving the cellular morphology in high performance thermoplastics foams through blending. , 2014, , .		0
108	Cellular morphology of organic-inorganic hybrid foams based on alkali alumino-silicate matrix. , 2014, , .		0

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109	Bio-Based and Bio-Inspired Cellular Materials. , 2015, , 1-37.		0
110	Lock-in termography for investigation of impact damage in hybrid polypropylene/glass composites: LT to hybrid thermoplastic composites. , 2015, , .		0
111	Sorption thermodynamics of low molecular weight compounds in polymers. Supercritical Fluid Science and Technology, 2021, 9, 69-177.	0.5	0
112	Rheological properties. Supercritical Fluid Science and Technology, 2021, 9, 263-283.	0.5	0
113	Batch processing. Supercritical Fluid Science and Technology, 2021, 9, 389-410.	0.5	0