

# Vincenzo La Carrubba

## List of Publications by Year in descending order

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94  
papers

1,431  
citations

331259

21  
h-index

395343

33  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1553  
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental methodology to study polymer crystallization under processing conditions. The influence of high cooling rates. <i>Chemical Engineering Science</i> , 2002, 57, 4129-4143.	1.9	125
2	Polymeric scaffolds prepared via thermally induced phase separation: Tuning of structure and morphology. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 459-466.	2.1	86
3	Poly-L-Lactic Acid (PLLA)-Based Biomaterials for Regenerative Medicine: A Review on Processing and Applications. <i>Polymers</i> , 2022, 14, 1153.	2.0	76
4	PLLA scaffolds produced by thermally induced phase separation (TIPS) allow human chondrocyte growth and extracellular matrix formation dependent on pore size. <i>Materials Science and Engineering C</i> , 2017, 80, 449-459.	3.8	73
5	Preparation of polymeric foams with a pore size gradient via Thermally Induced Phase Separation (TIPS). <i>Materials Letters</i> , 2015, 160, 31-33.	1.3	51
6	Effect of hydroxyapatite concentration and size on morpho-mechanical properties of PLA-based randomly oriented and aligned electrospun nanofibrous mats. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 101, 103449.	1.5	51
7	Poly(lactic acid) is a Sustainable, Low Absorption, Low Autofluorescence Alternative to Other Plastics for Microfluidic and Organ-on-Chip Applications. <i>Analytical Chemistry</i> , 2020, 92, 6693-6701.	3.2	50
8	Preparation, characterization and in vitro test of composites poly-lactic acid/hydroxyapatite scaffolds for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 945-953.	3.6	40
9	Poly(lactide)-based materials science strategies to improve tissue-material interface without the use of growth factors or other biological molecules. <i>Materials Science and Engineering C</i> , 2019, 94, 1083-1101.	3.8	34
10	Peltier cells as temperature control elements: Experimental characterization and modeling. <i>Applied Thermal Engineering</i> , 2014, 63, 234-245.	3.0	30
11	A Versatile Technique to Produce Porous Polymeric Scaffolds: The Thermally Induced Phase Separation (TIPS) Method. <i>Archives in Chemical Research</i> , 2017, 01, .	0.2	30
12	Solution-Based Processing for Scaffold Fabrication in Tissue Engineering Applications: A Brief Review. <i>Polymers</i> , 2021, 13, 2041.	2.0	30
13	PLLA/PLA scaffolds prepared via Thermally Induced Phase Separation (TIPS): tuning of properties and biodegradability. <i>International Journal of Material Forming</i> , 2008, 1, 619-622.	0.9	28
14	In vitro degradation and bioactivity of composite poly-L-lactic (PLLA)/bioactive glass (BG) scaffolds: comparison of 45S5 and 1393BG compositions. <i>Journal of Materials Science</i> , 2018, 53, 2362-2374.	1.7	28
15	Isotactic polypropylene solidification under pressure and high cooling rates. A master curve approach. <i>Polymer Engineering and Science</i> , 2000, 40, 2430-2441.	1.5	26
16	Core-shell PLA/Kef hybrid scaffolds for skin tissue engineering applications prepared by direct kefir coating on PLA electrospun fibers optimized via air-plasma treatment. <i>Materials Science and Engineering C</i> , 2021, 127, 112248.	3.8	26
17	Phenomenological approach to compare the crystallization kinetics of isotactic polypropylene and polyamide-6 under pressure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 153-175.	2.4	24
18	PLLA scaffolds with controlled architecture as potential microenvironment for in vitro tumor model. <i>Tissue and Cell</i> , 2019, 58, 33-41.	1.0	23

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19	Polymeric scaffolds based on blends of poly-l-lactic acid (PLLA) with poly-d-l-lactic acid (PLA) prepared via thermally induced phase separation (TIPS): demixing conditions and morphology. <i>Polymer Bulletin</i> , 2013, 70, 563-578.	1.7	22
20	Evidence of mechanisms occurring in thermally induced phase separation of polymeric systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 979-983.	2.4	22
21	Improvement of osteogenic differentiation of human mesenchymal stem cells on composite poly l-lactic acid/nano-hydroxyapatite scaffolds for bone defect repair. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 250-257.	1.1	22
22	Crystallization kinetics of iPP: Influence of operating conditions and molecular parameters. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1358-1367.	1.3	21
23	Engineering approaches in siRNA delivery. <i>International Journal of Pharmaceutics</i> , 2017, 525, 343-358.	2.6	21
24	Preparation and properties of poly(L-lactic acid) scaffolds by thermally induced phase separation from a ternary polymer-solvent system. <i>Polymer International</i> , 2004, 53, 2079-2085.	1.6	19
25	No flow temperature in injection molding simulation. <i>Journal of Applied Polymer Science</i> , 2011, 119, 3382-3392.	1.3	19
26	Physical and biological properties of electrospun poly(D,L-lactide)/nanoclay and poly(D,L-lactide)/nanosilica nanofibrous scaffold for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2120-2136.	2.1	19
27	Synthesis, characterization and foaming of PHEA-PLLA, a new graft copolymer for biomedical engineering. <i>Materials Science and Engineering C</i> , 2014, 41, 301-308.	3.8	18
28	Chitosan-Coating Deposition via Galvanic Coupling. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1715-1724.	2.6	17
29	Occurrence of Microplastics in Waste Sludge of Wastewater Treatment Plants: Comparison between Membrane Bioreactor (MBR) and Conventional Activated Sludge (CAS) Technologies. <i>Membranes</i> , 2022, 12, 371.	1.4	17
30	Tuning of biodegradation rate of PLLA scaffolds via blending with PLA. <i>International Journal of Material Forming</i> , 2009, 2, 713-716.	0.9	16
31	Poly-l-lactic acid tubular scaffolds via diffusion induced phase separation: Control of morphology. <i>Polymer Engineering and Science</i> , 2013, 53, 431-442.	1.5	16
32	Modulation of physical and biological properties of a composite PLLA and polyaspartamide derivative obtained via thermally induced phase separation (TIPS) technique. <i>Materials Science and Engineering C</i> , 2016, 67, 561-569.	3.8	16
33	Morphology and thermal properties of foams prepared via thermally induced phase separation based on polylactic acid blends. <i>Journal of Cellular Plastics</i> , 2012, 48, 399-407.	1.2	15
34	Measurement of cloud point temperature in polymer solutions. <i>Review of Scientific Instruments</i> , 2013, 84, 075118.	0.6	14
35	Combining carvacrol and nisin in biodegradable films for antibacterial packaging applications. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 117-126.	3.6	14
36	Influence of controlled processing conditions on the solidification of iPP, PET and PA6. <i>Macromolecular Symposia</i> , 2002, 180, 43-60.	0.4	13

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37	Phase separation of polymer blends in solution: A case study. <i>European Polymer Journal</i> , 2016, 79, 176-186.	2.6	13
38	Polymer Solidification under Pressure and High Cooling Rates. <i>International Polymer Processing</i> , 2000, 15, 103-110.	0.3	11
39	Some features of polymeric membranes for water purification via membrane distillation. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3557-3563.	1.3	11
40	Coagulation bath composition and desiccation environment as tuning parameters to prepare skinless membranes via diffusion induced phase separation. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	11
41	Human nasoseptal chondrocytes maintain their differentiated phenotype on PLLA scaffolds produced by thermally induced phase separation and supplemented with bioactive glass 1393. <i>Connective Tissue Research</i> , 2019, 60, 344-357.	1.1	11
42	The solidification behavior of a PBT/PET blend over a wide range of cooling rate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 799-810.	2.4	10
43	The continuous cooling transformation (CCT) as a flexible tool to investigate polymer crystallization under processing conditions. <i>Advances in Polymer Technology</i> , 2009, 28, 86-119.	0.8	9
44	Porous poly (L-lactic acid) scaffolds are optimal substrates for internal colonization by A6 mesoangioblasts and immunocytochemical analyses. <i>Journal of Biosciences</i> , 2009, 34, 873-879.	0.5	9
45	Characterization of Hydrophobic Polymeric Membranes for Membrane Distillation Process. <i>International Journal of Material Forming</i> , 2010, 3, 563-566.	0.9	9
46	Development of injectable and durable kefir hydro-alcoholic gels. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 309-319.	3.6	9
47	Orientation and Crystallinity Measurements in Film Casting Products. <i>Polymer Bulletin</i> , 2003, 50, 413-420.	1.7	8
48	The use of master curves to describe the simultaneous effect of cooling rate and pressure on polymer crystallization. <i>Polymer International</i> , 2004, 53, 61-68.	1.6	8
49	Valorisation of Dairy Wastes Through Kefir Grain Production. <i>Waste and Biomass Valorization</i> , 2020, 11, 3979-3985.	1.8	8
50	Calcium phosphate/polyvinyl acetate coatings on SS304 via galvanic co-deposition for orthopedic implant applications. <i>Surface and Coatings Technology</i> , 2021, 408, 126771.	2.2	8
51	Integrated production of biopolymers with industrial wastewater treatment: Effects of OLR on process yields, biopolymers characteristics and mixed microbial community enrichment. <i>Journal of Water Process Engineering</i> , 2022, 47, 102772.	2.6	8
52	The Use of the Indentation Test for Studying the Solidification Behaviour of Different Semicrystalline Polymers during Injection Molding. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 1056-1062.	1.7	7
53	Solidification of syndiotactic polystyrene by a continuous cooling transformation approach. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2688-2699.	2.4	7
54	Dependence of Coefficient of volumetric thermal expansion (CVTE) of glass fiber reinforced (GFR) polymers on the glass fiber content. <i>Polymer Bulletin</i> , 2008, 59, 813-824.	1.7	7

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55	Lattice fluid model generalized for specific interactions: An application to ternary polymer solutions. <i>Fluid Phase Equilibria</i> , 2011, 312, 60-65.	1.4	7
56	Engineered Membranes for Residual Cell Trapping on Microfluidic Blood Plasma Separation Systems: A Comparison between Porous and Nanofibrous Membranes. <i>Membranes</i> , 2021, 11, 680.	1.4	7
57	Evaluation of vapor mass transfer in various membrane distillation configurations: an experimental study. <i>Heat and Mass Transfer</i> , 2012, 48, 945-952.	1.2	6
58	Evaluation of mechanical and morphologic features of PLLA membranes as supports for perfusion cells culture systems. <i>Materials Science and Engineering C</i> , 2016, 69, 841-849.	3.8	6
59	A High-Throughput Mechanical Activator for Cartilage Engineering Enables Rapid Screening of in vitro Response of Tissue Models to Physiological and Supra-Physiological Loads. <i>Cells Tissues Organs</i> , 2022, 211, 670-688.	1.3	6
60	PLLA/Fibrin Tubular Scaffold: A New Way for Reliable Endothelial Cell Seeding. <i>Conference Papers in Science</i> , 2014, 2014, 1-5.	0.3	6
61	Study on heat transfer coefficients during cooling of PET bottles for food beverages. <i>Heat and Mass Transfer</i> , 2016, 52, 1479-1488.	1.2	5
62	Porous Biomaterials and Scaffolds for Tissue Engineering. , 2019, , 188-202.		5
63	Co-Deposition and Characterization of Hydroxyapatite-Chitosan and Hydroxyapatite-Polyvinylacetate Coatings on 304 SS for Biomedical Devices. <i>Key Engineering Materials</i> , 0, 813, 153-158.	0.4	5
64	Effect of Polyhydroxyalkanoate (PHA) Concentration on Polymeric Scaffolds Based on Blends of Poly-L-Lactic Acid (PLLA) and PHA Prepared via Thermally Induced Phase Separation (TIPS). <i>Polymers</i> , 2022, 14, 2494.	2.0	5
65	Effect of pressure on the PVT behaviour of iPP as revealed by dilatometric measurements. <i>Polymer Bulletin</i> , 2002, 49, 159-164.	1.7	4
66	Indentation test as a tool for monitoring the solidification process during injection molding. <i>Journal of Applied Polymer Science</i> , 2003, 89, 3713-3727.	1.3	4
67	A Composite PLLA Scaffold for Regeneration of Complex Tissues. <i>International Journal of Material Forming</i> , 2010, 3, 571-574.	0.9	4
68	A poly-L-lactic acid/ collagen/glycosaminoglycan matrix for tissue engineering applications. <i>Journal of Cellular Plastics</i> , 2017, 53, 537-549.	1.2	4
69	Establishment of a pulmonary epithelial barrier on biodegradable poly-L-lactic-acid membranes. <i>PLoS ONE</i> , 2019, 14, e0210830.	1.1	4
70	Tubular scaffold for vascular tissue engineering application. <i>International Journal of Material Forming</i> , 2010, 3, 567-570.	0.9	3
71	Double Flow Bioreactor for In Vitro Test of Drug Delivery. <i>Current Drug Delivery</i> , 2016, 13, 1-1.	0.8	3
72	Mathematical and numerical modeling of an airlift perfusion bioreactor for tissue engineering applications. <i>Biochemical Engineering Journal</i> , 2022, 178, 108298.	1.8	3

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73	PLLA biodegradable scaffolds for angiogenesis via Diffusion Induced Phase Separation (DIPS). International Journal of Material Forming, 2008, 1, 623-626.	0.9	2
74	Demixing Time and Temperature Influence on Porosity and Interconnection of PLLA Scaffolds Prepared via TIPS. Macromolecular Symposia, 2009, 286, 49-52.	0.4	2
75	On the calculation of free energy of mixing for aqueous polymer solutions with group-contribution models. Fluid Phase Equilibria, 2010, 299, 222-228.	1.4	2
76	Characterization of PLLA scaffolds for biomedical applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 469-477.	1.8	2
77	Blend scaffolds with polyaspartamide/polyester structure fabricated via TIPS and their RGDC functionalization to promote osteoblast adhesion and proliferation. Journal of Biomedical Materials Research - Part A, 2019, 107, 2726-2735.	2.1	2
78	Novel dual-flow perfusion bioreactor for in vitro pre-screening of nanoparticles delivery: design, characterization and testing. Bioprocess and Biosystems Engineering, 2021, 44, 2361-2374.	1.7	2
79	Heteroatom-Doping for Carbon Dots: An Efficient Strategy to Improve Their Optoelectronic Properties. ECS Meeting Abstracts, 2020, MA2020-01, 1087-1087.	0.0	2
80	A dynamic air-liquid interface system for in vitro mimicking of the nasal mucosa. Biotechnology and Bioengineering, 2022, , .	1.7	2
81	Tailoring PLLA scaffolds for tissue engineering applications: Morphologies for 2D and 3D cell cultures. International Journal of Material Forming, 2009, 2, 717-720.	0.9	1
82	Water Fluxes in Polymeric Membranes for Desalination via Membrane Distillation. AIP Conference Proceedings, 2010, , .	0.3	1
83	No-flow temperature and solidification in injection molding simulation. , 2011, , .		1
84	PHEA-PLLA: A New Polymer Blend For Tissue Engineering Applications. , 2011, , .		1
85	Poly lactic acid based foams prepared via thermally induced phase separation (TIPS): A method to tune the crystallinity. AIP Conference Proceedings, 2012, , .	0.3	1
86	Biological evaluation of PLLA membranes, with different pore diameters, to stimulate cell adhesion and growth in vitro. AIP Conference Proceedings, 2015, , .	0.3	1
87	Composite Scaffolds with a Hydroxyapatite Spatial Gradient for Osteochondral Defect Repair. , 2018, , .		1
88	3D polymeric supports promote the growth and progression of anaplastic thyroid carcinoma. Biochemical and Biophysical Research Communications, 2020, 531, 223-227.	1.0	1
89	A Comparative Study of Crystallization of iPP and PA6 under Pressure. International Journal of Forming Processes, 2001, 4, 511-534.	0.3	1
90	Modeling and experimental approaches for the characterization of phase equilibria in polymer solutions. , 2012, , .		0

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91	Design, build-up and optimization of a fast quenching device for polymeric thin film. , 2014, , .		0
92	Optical characterization of phase transitions in pure polymers and blends. AIP Conference Proceedings, 2015, , .	0.3	0
93	LIAC Meeting on Vascular Research 2013. Conference Papers in Science, 2015, 2015, 1-2.	0.3	0
94	Polmonary epithelial barrier formation on biodegradable poly-L-lactic-acid (PLLA) membrane. , 2016, , .		0