

Vincenzo La Carrubba

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

972

citations

18

h-index

26

g-index

96

ext. papers

1,193

ext. citations

3.7

avg, IF

4.4

L-index

#	Paper	IF	Citations
86	Mathematical and numerical modeling of an airlift perfusion bioreactor for tissue engineering applications. <i>Biochemical Engineering Journal</i> , 2022 , 178, 108298	4.2	0
85	Poly-L-Lactic Acid (PLLA)-Based Biomaterials for Regenerative Medicine: A Review on Processing and Applications.. <i>Polymers</i> , 2022 , 14,	4.5	8
84	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	6.7	0
83	Combining carvacrol and nisin in biodegradable films for antibacterial packaging applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 117-126	7.9	3
82	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	5.4	11
81	Solution-Based Processing for Scaffold Fabrication in Tissue Engineering Applications: A Brief Review. <i>Polymers</i> , 2021 , 13,	4.5	7
80	Calcium phosphate/polyvinyl acetate coatings on SS304 via galvanic co-deposition for orthopedic implant applications. <i>Surface and Coatings Technology</i> , 2021 , 408, 126771	4.4	5
79	Novel dual-flow perfusion bioreactor for in vitro pre-screening of nanoparticles delivery: design, characterization and testing. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 44, 2361-2374	3.7	0
78	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> , 2021 , 1-19	2.1	0
77	Engineered Membranes for Residual Cell Trapping on Microfluidic Blood Plasma Separation Systems: A Comparison between Porous and Nanofibrous Membranes. <i>Membranes</i> , 2021 , 11,	3.8	2
76	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	8.3	6
75	Polylactic 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	7.8	20
74	Development of injectable and durable kefir hydro-alcoholic gels. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 309-319	7.9	8
73	Heteroatom-Doping for Carbon Dots: An Efficient Strategy to Improve Their Optoelectronic Properties. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 1087-1087	0	
72	3D polymeric supports promote the growth and progression of anaplastic thyroid carcinoma. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 531, 223-227	3.4	0
71	Valorisation of Dairy Wastes Through Kefir Grain Production. <i>Waste and Biomass Valorization</i> , 2020 , 11, 3979-3985	3.2	4
70	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	4.1	30

69	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	3.3	12
68	PLLA scaffolds with controlled architecture as potential microenvironment for in vitro tumor model. <i>Tissue and Cell</i> , 2019 , 58, 33-41	2.7	14
67	Chitosan-Coating Deposition via Galvanic Coupling. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1715-1724	5.5	11
66	Porous Biomaterials and Scaffolds for Tissue Engineering 2019 , 188-202		5
65	Blend scaffolds with polyaspartamide/polyester structure fabricated via TIPS and their RGDC functionalization to promote osteoblast adhesion and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 2726-2735	5.4	0
64	Co-Deposition and Characterization of Hydroxyapatite-Chitosan and Hydroxyapatite-Polyvinylacetate Coatings on 304 SS for Biomedical Devices. <i>Key Engineering Materials</i> , 2019 , 813, 153-158	0.4	2
63	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	8.3	22
62	Establishment of a pulmonary epithelial barrier on biodegradable poly-L-lactic-acid membranes. <i>PLoS ONE</i> , 2019 , 14, e0210830	3.7	3
61	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	3.3	5
60	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	4.3	19
59	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	7.93	30
58	Composite Scaffolds with a Hydroxyapatite Spatial Gradient for Osteochondral Defect Repair 2018 ,		1
57	Engineering approaches in siRNA delivery. <i>International Journal of Pharmaceutics</i> , 2017 , 525, 343-358	6.5	14
56	Characterization of PLLA scaffolds for biomedical applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017 , 66, 469-477	3	2
55	A poly-L-lactic acid/ collagen/glycosaminoglycan matrix for tissue engineering applications. <i>Journal of Cellular Plastics</i> , 2017 , 53, 537-549	1.5	4
54	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	8.3	48
53	A Versatile Technique to Produce Porous Polymeric Scaffolds: The Thermally Induced Phase Separation (TIPS) Method 2017 , 01,		22
52	Double Flow Bioreactor for In Vitro Test of Drug Delivery. <i>Current Drug Delivery</i> , 2017 , 14, 239-245	3.2	3

51	Study on heat transfer coefficients during cooling of PET bottles for food beverages. <i>Heat and Mass Transfer</i> , 2016 , 52, 1479-1488	2.2	4
50	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	8.3	13
49	Phase separation of polymer blends in solution: A case study. <i>European Polymer Journal</i> , 2016 , 79, 176-186	8.6	9
48	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, 841-9	8.3	5
47	Preparation of polymeric foams with a pore size gradient via Thermally Induced Phase Separation (TIPS). <i>Materials Letters</i> , 2015 , 160, 31-33	3.3	39
46	Biological evaluation of PLLA membranes, with different pore diameters, to stimulate cell adhesion and growth in vitro 2015 ,		1
45	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, n/a-n/a	2.9	11
44	LIAC Meeting on Vascular Research 2013. <i>Conference Papers in Science</i> , 2015 , 2015, 1-2		
43	Peltier cells as temperature control elements: Experimental characterization and modeling. <i>Applied Thermal Engineering</i> , 2014 , 63, 234-245	5.8	19
42	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	2.6	18
41	Synthesis, characterization and foaming of PHEA-PLLA, a new graft copolymer for biomedical engineering. <i>Materials Science and Engineering C</i> , 2014 , 41, 301-8	8.3	15
40	PLLA/Fibrin Tubular Scaffold: A New Way for Reliable Endothelial Cell Seeding. <i>Conference Papers in Science</i> , 2014 , 2014, 1-5		4
39	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	2.4	20
38	Measurement of cloud point temperature in polymer solutions. <i>Review of Scientific Instruments</i> , 2013 , 84, 075118	1.7	12
37	Poly-left-lactic acid tubular scaffolds via diffusion induced phase separation: Control of morphology. <i>Polymer Engineering and Science</i> , 2013 , 53, 431-442	2.3	13
36	Evaluation of vapor mass transfer in various membrane distillation configurations: an experimental study. <i>Heat and Mass Transfer</i> , 2012 , 48, 945-952	2.2	5
35	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	1.5	14
34	Lattice fluid model generalized for specific interactions: An application to ternary polymer solutions. <i>Fluid Phase Equilibria</i> , 2011 , 312, 60-65	2.5	7

33	No-flow temperature in injection molding simulation. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3382-3392	15	15
32	Some features of polymeric membranes for water purification via membrane distillation. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 3557-3563	2.9	9
31	No-flow temperature and solidification in injection molding simulation 2011 ,		1
30	Water Fluxes in Polymeric Membranes for Desalination via Membrane Distillation 2010 ,		1
29	On the calculation of free energy of mixing for aqueous polymer solutions with group-contribution models. <i>Fluid Phase Equilibria</i> , 2010 , 299, 222-228	2.5	2
28	Characterization of Hydrophobic Polymeric Membranes for Membrane Distillation Process. <i>International Journal of Material Forming</i> , 2010 , 3, 563-566	2	8
27	Tubular scaffold for vascular tissue engineering application. <i>International Journal of Material Forming</i> , 2010 , 3, 567-570	2	2
26	A Composite PLLA Scaffold for Regeneration of Complex Tissues. <i>International Journal of Material Forming</i> , 2010 , 3, 571-574	2	4
25	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	1.9	8
24	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, 873-9	2.3	8
23	Tailoring PLLA scaffolds for tissue engineering applications: Morphologies for 2D and 3D cell cultures. <i>International Journal of Material Forming</i> , 2009 , 2, 717-720	2	1
22	Tuning of biodegradation rate of PLLA scaffolds via blending with PLA. <i>International Journal of Material Forming</i> , 2009 , 2, 713-716	2	16
21	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	2.6	5
20	Demixing Time and Temperature Influence on Porosity and Interconnection of PLLA Scaffolds Prepared via TIPS. <i>Macromolecular Symposia</i> , 2009 , 286, 49-52	0.8	2
19	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	2.4	6
18	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	2	24
17	PLLA biodegradable scaffolds for angiogenesis via Diffusion Induced Phase Separation (DIPS). <i>International Journal of Material Forming</i> , 2008 , 1, 623-626	2	1
16	Polymeric scaffolds prepared via thermally induced phase separation: tuning of structure and morphology. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 459-66	5.4	76

15	Crystallization kinetics of iPP: Influence of operating conditions and molecular parameters. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 1358-1367	2.9	20
14	Solidification of syndiotactic polystyrene by a continuous cooling transformation approach. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 2688-2699	2.6	6
13	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	3.9	7
12	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	3.3	7
11	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	3.3	19
10	Orientation and Crystallinity Measurements in Film Casting Products. <i>Polymer Bulletin</i> , 2003 , 50, 413-420.	2.4	7
9	Indentation test as a tool for monitoring the solidification process during injection molding. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3713-3727	2.9	3
8	Effect of pressure on the PVT behaviour of iPP as revealed by dilatometric measurements. <i>Polymer Bulletin</i> , 2002 , 49, 159-164	2.4	3
7	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	2.6	19
6	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	4.4	115
5	Influence of controlled processing conditions on the solidification of iPP, PET and PA6. <i>Macromolecular Symposia</i> , 2002 , 180, 43-60	0.8	10
4	Isotactic polypropylene solidification under pressure and high cooling rates. A master curve approach. <i>Polymer Engineering and Science</i> , 2000 , 40, 2430-2441	2.3	22
3	Polymer Solidification under Pressure and High Cooling Rates. <i>International Polymer Processing</i> , 2000 , 15, 103-110	1	8
2	Poly(lactic acid), a sustainable, biocompatible, transparent substrate material for Organ-On-Chip, and Microfluidic applications		1
1	Engineered membranes for residual cell trapping on microfluidic blood plasma separation systems. A comparison between porous and nanofibrous membranes		1