

# Chiara Gualandi

## List of Publications by Year in descending order

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86  
papers

2,581  
citations

172457

29  
h-index

206112

48  
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91  
all docs

91  
docs citations

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times ranked

4115  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocomposite electrospun fibers of poly( $\epsilon$ -caprolactone)/bioactive glass with shape memory properties. <i>Bioactive Materials</i> , 2022, 11, 230-239.	15.6	15
2	Reusable Cavitation-Based Electrospun Membranes for the Removal of Polycyclic Aromatic Hydrocarbons from Water. <i>Small</i> , 2022, 18, e2104946.	10.0	8
3	Thermoactive Smart Electrospun Nanofibers. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100694.	3.9	14
4	A Modular Composite Device of Poly(Ethylene Oxide)/Poly(Butylene Terephthalate) (PEOT/PBT) Nanofibers and Gelatin as a Dual Drug Delivery System for Local Therapy of Soft Tissue Tumors. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3239.	4.1	11
5	Tantalum nanoparticles enhance the osteoinductivity of multiscale composites based on poly(lactide-co-glycolide) electrospun fibers embedded in a gelatin hydrogel. <i>Materials Today Chemistry</i> , 2022, 24, 100804.	3.5	5
6	Easy recovery of Li-ion cathode powders by the use of water-processable binders. <i>Electrochimica Acta</i> , 2022, 418, 140376.	5.2	11
7	One year of surgical mask testing at the University of Bologna labs: Lessons learned from data analysis. <i>Separation and Purification Technology</i> , 2022, 294, 121180.	7.9	5
8	PVDF/BaTiO <sub>3</sub> composite foams with high content of $\beta$ phase by thermally induced phase separation (TIPS). <i>Journal of Polymer Research</i> , 2022, 29, .	2.4	5
9	Synthesis of novel carvone (meth)acrylate monomers for the production of hydrophilic polymers with high terpene content. <i>Polymer International</i> , 2021, 70, 499-505.	3.1	11
10	Unusual Cross-Linked Polystyrene by Copper-Catalyzed ARGET ATRP Using a Bifunctional Initiator and No Cross-Linking Agent. <i>Macromolecular Research</i> , 2021, 29, 280-288.	2.4	6
11	Functionalizable Epoxy-rich Electrospun Fibres Based on Renewable Terpene for Multi-Purpose Applications. <i>Polymers</i> , 2021, 13, 1804.	4.5	12
12	Design and In Vitro Study of a Dual Drug-Loaded Delivery System Produced by Electrospinning for the Treatment of Acute Injuries of the Central Nervous System. <i>Pharmaceutics</i> , 2021, 13, 848.	4.5	6
13	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines. <i>Small Methods</i> , 2021, 5, 2100402.	8.6	45
14	Nanotechnology-Assisted RNA Delivery: From Nucleic Acid Therapeutics to COVID-19 Vaccines (Small) Tj ETQq0,00 rgBT /Overlock 1	8.6	0
15	Deep eutectic solvent and agar: a new green gel to remove proteinaceous-based varnishes from paintings. <i>Journal of Cultural Heritage</i> , 2021, 51, 138-144.	3.3	12
16	Production of polyhydroxybutyrate by the cyanobacterium cf. <i>Anabaena</i> sp.. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 92-99.	7.5	11
17	Evaluation of the potential performance of hyphenated pyrolysis-anaerobic digestion (Py-AD) process for carbon negative fuels from woody biomass. <i>Renewable Energy</i> , 2020, 148, 1190-1199.	8.9	24
18	Hierarchical electrospun tendon-ligament bioinspired scaffolds induce changes in fibroblasts morphology under static and dynamic conditions. <i>Journal of Microscopy</i> , 2020, 277, 160-169.	1.8	31

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19	The Pulsed Electron Deposition Technique for Biomedical Applications: A Review. <i>Coatings</i> , 2020, 10, 16.	2.6	13
20	Biodegradable electrospun fibers enriched with struvite crystal seeds for the recovery of phosphorous and nitrogen. <i>European Polymer Journal</i> , 2020, 122, 109389.	5.4	6
21	Biomimetic Hierarchically Arranged Nanofibrous Structures Resembling the Architecture and the Passive Mechanical Properties of Skeletal Muscles: A Step Forward Toward Artificial Muscle. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 767.	4.1	29
22	Elastomeric Electrospun Scaffolds of a Biodegradable Aliphatic Copolyester Containing PEG-Like Sequences for Dynamic Culture of Human Endothelial Cells. <i>Biomolecules</i> , 2020, 10, 1620.	4.0	6
23	Organogel Coupled with Microstructured Electrospun Polymeric Nonwovens for the Effective Cleaning of Sensitive Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39620-39629.	8.0	18
24	Enhanced Electrospinning of Active Organic Fibers by Plasma Treatment on Conjugated Polymer Solutions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26320-26329.	8.0	13
25	Nanodecoration of electrospun polymeric fibers with nanostructured silver coatings by ionized jet deposition for antibacterial tissues. <i>Materials Science and Engineering C</i> , 2020, 113, 110998.	7.3	28
26	Improved Functional Recovery in Rat Spinal Cord Injury Induced by a Drug Combination Administered with an Implantable Polymeric Delivery System. <i>Journal of Neurotrauma</i> , 2020, 37, 1708-1719.	3.4	16
27	Pd/Au Based Catalyst Immobilization in Polymeric Nanofibrous Membranes via Electrospinning for the Selective Oxidation of 5-Hydroxymethylfurfural. <i>Processes</i> , 2020, 8, 45.	2.8	16
28	Morphologically bioinspired hierarchical nylon 6,6 electrospun assembly recreating the structure and performance of tendons and ligaments. <i>Medical Engineering and Physics</i> , 2019, 71, 79-90.	1.7	27
29	Nanocomposite foams based on flexible biobased thermoplastic polyurethane and ZnO nanoparticles as potential wound dressing materials. <i>Materials Science and Engineering C</i> , 2019, 104, 109893.	7.3	67
30	Multiscale hierarchical bioresorbable scaffolds for the regeneration of tendons and ligaments. <i>Biofabrication</i> , 2019, 11, 035026.	7.1	45
31	Functional and smart materials by electrospinning for advanced applications. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
32	INK-JET PRINTED STRETCHABLE SENSORS FOR CELL MONITORING UNDER MECHANICAL STIMULI: A FEASIBILITY STUDY. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1950049.	0.7	3
33	Tendon Fascicle-Inspired Nanofibrous Scaffold of Polylactic acid/Collagen with Enhanced 3D-Structure and Biomechanical Properties. <i>Scientific Reports</i> , 2018, 8, 17167.	3.3	59
34	Ether-Oxygen Containing Electrospun Microfibrous and Sub-Microfibrous Scaffolds Based on Poly(butylene 1,4-cyclohexanedicarboxylate) for Skeletal Muscle Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3212.	4.1	32
35	Advances in multidrug delivery from electrospun nanomaterials. , 2018, , 405-430.		3
36	Shape memory electrospun nonwovens based on crosslinked poly( $\epsilon$ -caprolactone) for multifunctional biological applications. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1

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37	Highly Sensitive, Anisotropic, and Reversible Stress/Strain Sensors from Mechanochromic Nanofiber Composites. <i>Advanced Materials</i> , 2018, 30, e1802813.	21.0	98
38	Carbon on poly( $\mu$ -caprolactone) (PCL) Ink-jet Printed Sensor for Monitoring Cell Cultures of Myoblasts. <i>IFMBE Proceedings</i> , 2018, , 783-786.	0.3	1
39	Biofabrication of bundles of poly(lactic acid)-collagen blends mimicking the fascicles of the human Achilles tendon. <i>Biofabrication</i> , 2017, 9, 015025.	7.1	53
40	Mutifunctional Electrospun Nonwoven Mats with Two-Way Shape Memory Behavior Prepared from Sol-Gel Crosslinked Poly( $\mu$ -Caprolactone). <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600519.	3.6	19
41	Thermal Annealing to Modulate the Shape Memory Behavior of a Biobased and Biocompatible Triblock Copolymer Scaffold in the Human Body Temperature Range. <i>Biomacromolecules</i> , 2017, 18, 2499-2508.	5.4	17
42	Cell delivery for regenerative medicine by using bioresorbable polymers. , 2017, , 365-389.		1
43	Fast Coprecipitation of Calcium Phosphate Nanoparticles inside Gelatin Nanofibers by Tricoaxial Electrospinning. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-7.	2.7	7
44	Poly( $\mu$ -Lactic Acid Nanofiber-Polyamidoamine Hydrogel Composites: Preparation, Properties, and Preliminary Evaluation as Scaffolds for Human Pluripotent Stem Cell Culturing. <i>Macromolecular Bioscience</i> , 2016, 16, 1533-1544.	4.1	31
45	Atmospheric Pressure Non-Equilibrium Plasma as a Green Tool to Crosslink Gelatin Nanofibers. <i>Scientific Reports</i> , 2016, 6, 38542.	3.3	43
46	An innovative co-axial system to electrospin <i>in situ</i> crosslinked gelatin nanofibers. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025007.	3.3	11
47	Facile fabrication of shape memory poly( $\mu$ -caprolactone) non-woven mat by combining electrospinning and sol-gel reaction. <i>RSC Advances</i> , 2016, 6, 43964-43974.	3.6	16
48	<i>In Vitro</i> Testing of Biomaterials for Neural Repair: Focus on Cellular Systems and High-Content Analysis. <i>BioResearch Open Access</i> , 2016, 5, 201-211.	2.6	6
49	Two-Way Shape Memory Behavior of Electrospun Non-Woven Mats Prepared from Sol-Gel Crosslinked Poly( $\mu$ -Caprolactone). <i>Advances in Science and Technology</i> , 2016, 97, 100-105.	0.2	2
50	Tailoring chemical and physical properties of fibrous scaffolds from block copolyesters containing ether and thio-ether linkages for skeletal differentiation of human mesenchymal stromal cells. <i>Biomaterials</i> , 2016, 76, 261-272.	11.4	26
51	Atmospheric pressure non-thermal plasma for the production of composite materials. , 2015, , .		0
52	Electrospun Fibers Containing Bio-Based Ricinoleic Acid: Effect of Amount and Distribution of Ricinoleic Acid Unit on Antibacterial Properties. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 1085-1095.	3.6	8
53	Effects of Nylon 6,6 nanofibrous mats on thermal properties and delamination behavior of high performance CFRP laminates. <i>Polymer Composites</i> , 2015, 36, 1303-1313.	4.6	28
54	Structure-morphology correlation in electrospun fibers of semicrystalline polymers by simultaneous synchrotron SAXS-WAXD. <i>Polymer</i> , 2015, 63, 154-163.	3.8	46

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55	Effect of Silica and Tin Oxide Nanoparticles on Properties of Nanofibrous Electrospun Separators. <i>Journal of the Electrochemical Society</i> , 2015, 162, A915-A920.	2.9	29
56	Solid-State Crosslinking of Polysaccharide Electrospun Fibers by Atmospheric Pressure Non-Equilibrium Plasma: A Novel Straightforward Approach. <i>Plasma Processes and Polymers</i> , 2015, 12, 1195-1199.	3.0	14
57	Crosslinking of water-soluble pullulan nanofibrous mats through atmospheric plasma treatment. , 2015, , .		0
58	Effect of TiO <sub>2</sub> nanoparticle loading on Poly(L-lactic acid) porous scaffolds fabricated by TIPS. <i>Composites Part B: Engineering</i> , 2015, 81, 189-195.	12.0	50
59	Co-electrospun gelatin-poly(L-lactic acid) scaffolds: Modulation of mechanical properties and chondrocyte response as a function of composition. <i>Materials Science and Engineering C</i> , 2014, 36, 130-138.	7.3	71
60	Nanohybrid Materials by Electrospinning. <i>Advances in Polymer Science</i> , 2014, , 87-142.	0.8	12
61	Structural reinforcement and failure analysis in composite nanofibers of graphene oxide and gelatin. <i>Carbon</i> , 2014, 78, 566-577.	10.3	81
62	Comparative performance of collagen nanofibers electrospun from different solvents and stabilized by different crosslinkers. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2313-2321.	3.6	63
63	Influence of biological matrix and artificial electrospun scaffolds on proliferation, differentiation and trophic factor synthesis of rat embryonic stem cells. <i>Matrix Biology</i> , 2014, 33, 68-76.	3.6	24
64	Atmospheric Pressure Non-Equilibrium Plasma Treatment to Improve the Electrospinnability of Poly(L-Lactic Acid) Polymeric Solution. <i>Plasma Processes and Polymers</i> , 2014, 11, 247-255.	3.0	36
65	Nanovascularization of Polymer Matrix: Generation of Nanochannels and Nanotubes by Sacrificial Electrospun fibers. <i>Nano Letters</i> , 2013, 13, 5385-5390.	9.1	36
66	Atmospheric plasma surface modification of electrospun poly(L-lactic acid): Effect on mat properties and cell culturing. , 2013, , .		0
67	Advantages of Surface-Initiated ATRP (SI-ATRP) for the Functionalization of Electrospun Materials. <i>Macromolecular Rapid Communications</i> , 2013, 34, 51-56.	3.9	32
68	The role of 3D microenvironmental organization in MCF-7 epithelial-mesenchymal transition after 7 culture days. <i>Experimental Cell Research</i> , 2013, 319, 1515-1522.	2.6	22
69	Study of the effect of atmospheric pressure plasma treatment on electrospinnability of poly-L-lactic acid solutions: Voltage waveform effect. , 2013, , .		1
70	Plasma assisted nanoparticle dispersion in polymeric solutions for the production of electrospun lithium battery separators. , 2013, , .		3
71	Poly(butylene/diethylene glycol succinate) multiblock copolyester as a candidate biomaterial for soft tissue engineering: Solid-state properties, degradability, and biocompatibility. <i>Journal of Bioactive and Compatible Polymers</i> , 2012, 27, 244-264.	2.1	41
72	Effect of Oxide Nanoparticles on Thermal and Mechanical Properties of Electrospun Separators for Lithium-Ion Batteries. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-8.	2.7	23

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73	Ethanol disinfection affects physical properties and cell response of electrospun poly(l-lactic acid) scaffolds. <i>European Polymer Journal</i> , 2012, 48, 2008-2018.	5.4	46
74	Easily synthesized novel biodegradable copolyesters with adjustable properties for biomedical applications. <i>Soft Matter</i> , 2012, 8, 5466.	2.7	43
75	Fiber reinforcement of a biomimetic bone cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1363-1370.	3.6	10
76	Influence of electrospun Nylon 6,6 nanofibrous mats on the interlaminar properties of Grâ€“epoxy composite laminates. <i>Composite Structures</i> , 2012, 94, 571-579.	5.8	112
77	Effect of Electrospun Fiber Diameter and Alignment on Macrophage Activation and Secretion of Proinflammatory Cytokines and Chemokines. <i>Biomacromolecules</i> , 2011, 12, 1900-1911.	5.4	236
78	Elastomeric electrospun scaffolds of poly(l-lactide-co-trimethylene carbonate) for myocardial tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1689-1699.	3.6	41
79	Electrospun nanofibers for enhancing structural performance of composite materials. <i>Polymers for Advanced Technologies</i> , 2011, 22, 339-349.	3.2	171
80	Electrospun gelatin nanofibers: Optimization of genipin cross-linking to preserve fiber morphology after exposure to water. <i>Acta Biomaterialia</i> , 2011, 7, 1702-1709.	8.3	217
81	Porous Polymeric Bioresorbable Scaffolds for Tissue Engineering. <i>Springer Theses</i> , 2011, , .	0.1	8
82	Scaffold for tissue engineering fabricated by non-isothermal supercritical carbon dioxide foaming of a highly crystalline polyester. <i>Acta Biomaterialia</i> , 2010, 6, 130-136.	8.3	62
83	Electrospun Scaffolds of a Polyhydroxyalkanoate Consisting of 100%-Hydroxylpentadecanoate Repeat Units: Fabrication and In Vitro Biocompatibility Studies. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1283-1296.	3.5	24
84	Paraffin Embedding Allows Effective Analysis of Proliferation, Survival, and Immunophenotyping of Cells Cultured on Poly(l-Lactic Acid) Electrospun Nanofiber Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 751-760.	2.1	7
85	Bioresorbable electrospun nanofibrous scaffolds loaded with bioactive molecules. <i>E-Polymers</i> , 2009, 9, .	3.0	7
86	An innovative and versatile approach to design highly porous, patterned, nanofibrous polymeric materials. <i>Journal of Materials Science</i> , 2009, 44, 4969-4975.	3.7	32