# Valeria Chiono

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An Overview of Poly(lactic-co-glycolic) Acid (PLGA)-Based Biomaterials for Bone Tissue Engineering. International Journal of Molecular Sciences, 2014, 15, 3640-3659. | 1.8 | 1,158 |
| 2 | Collagen for bone tissue regeneration. Acta Biomaterialia, 2012, 8, 3191-3200. | 4.1 | 686 |
| 3 | 3D self-organized microvascular model of the human blood-brain barrier with endothelial cells, pericytes and astrocytes. Biomaterials, 2018, 180, 117-129. | 5.7 | 499 |
| 4 | Blends of Poly-(Îµ-caprolactone) and Polysaccharides in Tissue Engineering Applications. Biomacromolecules, 2005, 6, 1961-1976. | 2.6 | 304 |
| 5 | Materials for Peripheral Nerve Regeneration. Macromolecular Bioscience, 2006, 6, 13-26. | 2.1 | 245 |
| 6 | Polymeric membranes for guided bone regeneration. Biotechnology Journal, 2011, 6, 1187-1197. | 1.8 | 244 |
| 7 | Trends in the design of nerve guidance channels in peripheral nerve tissue engineering. Progress in Neurobiology, 2015, 131, 87-104. | 2.8 | 237 |
| 8 | MicroRNA delivery through nanoparticles. Journal of Controlled Release, 2019, 313, 80-95. | 4.8 | 235 |
| 9 | Genipin-crosslinked chitosan/gelatin blends for biomedical applications. Journal of Materials Science: Materials in Medicine, 2008, 19, 889-898. | 1.7 | 229 |
| 10 | 3D microfluidic <i>ex vivo</i> culture of organotypic tumor spheroids to model immune checkpoint blockade. Lab on A Chip, 2018, 18, 3129-3143. | 3.1 | 185 |
| 11 | Pluronic F127 Hydrogel Characterization and Biofabrication in Cellularized Constructs for Tissue Engineering Applications. Procedia CIRP, 2016, 49, 125-132. | 1.0 | 179 |
| 12 | Bioactive glass/polymer composite scaffolds mimicking bone tissue. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2654-2667. | 2.1 | 115 |
| 13 | Layer-by-layer assembly for biomedical applications in the last decade. Nanotechnology, 2015, 26, 422001. | 1.3 | 109 |
| 14 | Comparative analysis of gelatin scaffolds crosslinked by genipin and silane coupling agent. International Journal of Biological Macromolecules, 2011, 49, 700-706. | 3.6 | 105 |
| 15 | Polyurethane-based scaffolds for myocardial tissue engineering. Interface Focus, 2014, 4, 20130045. | 1.5 | 95 |
| 16 | Localised controlled release of simvastatin from porous chitosanâ€“gelatin scaffolds engrafted with simvastatin loaded PLGA-microparticles for bone tissue engineering application. Materials Science and Engineering C, 2016, 59, 249-257. | 3.8 | 86 |
| 17 | Biomimetic polyurethanes in nano and regenerative medicine. Journal of Materials Chemistry B, 2014, 2, 5128-5144. | 2.9 | 81 |
| 18 | Chapter 9 Artificial Scaffolds for Peripheral Nerve Reconstruction. International Review of Neurobiology, 2009, 87, 173-198. | 0.9 | 72 |

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|---|---|---|---|
| 19 | Chitosan/gelatin blends for biomedical applications. Journal of Biomedical Materials Research - Part A, 2008, 86A, 311-322. | 2.1 | 68 |
| 20 | Incorporation of PLGA nanoparticles into porous chitosanâ€“gelatin scaffolds: Influence on the physical properties and cell behavior. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1318-1327. | 1.5 | 67 |
| 21 | Crosslinked gelatin nanofibres: Preparation, characterisation and in vitro studies using glial-like cells. Materials Science and Engineering C, 2013, 33, 2723-2735. | 3.8 | 67 |
| 22 | Thermosensitive block copolymer hydrogels based on poly(É›â€caprolactone) and polyethylene glycol for biomedical applications: State of the art and future perspectives. Journal of Biomedical Materials Research - Part A, 2015, 103, 1276-1290. | 2.1 | 67 |
| 23 | Reactive compatibilizer precursors for LDPE/PA6 blends, 1. Macromolecular Chemistry and Physics, 2002, 203, 1512-1525. | 1.1 | 65 |
| 24 | Enzymatically crosslinked porous composite matrices for bone tissue regeneration. Journal of Biomedical Materials Research - Part A, 2010, 92A, 137-151. | 2.1 | 63 |
| 25 | <i>In vitro</i> models of molecular and nano-particle transport across the blood-brain barrier. Biomicrofluidics, 2018, 12, 042213. | 1.2 | 61 |
| 26 | Reactive compatibilizer precursors for LDPE/PA6 blends. III: ethyleneâ€“glycidylmethacrylate copolymer. Polymer, 2003, 44, 2423-2432. | 1.8 | 60 |
| 27 | Silk Fibroin/<scp>G</scp>elatin Blend Films Crosslinked with Enzymes for Biomedical Applications. Macromolecular Bioscience, 2013, 13, 1492-1510. | 2.1 | 58 |
| 28 | Modeling Nanocarrier Transport across a 3D In Vitro Human Bloodâ€Brainâ€“Barrier Microvasculature. Advanced Healthcare Materials, 2020, 9, e1901486. | 3.9 | 57 |
| 29 | Development and characterization of novel agar and gelatin injectable hydrogel as filler for peripheral nerve guidance channels. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 197-208. | 1.3 | 44 |
| 30 | Novel polyurethaneâ€based thermosensitive hydrogels as drug release and tissue engineering platforms: design and <i>in vitro</i> characterization. Polymer International, 2016, 65, 756-769. | 1.6 | 43 |
| 31 | Composite Films of Gelatin and Hydroxyapatite/Bioactive Glass for Tissue-Engineering Applications. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1207-1226. | 1.9 | 41 |
| 32 | Surface modification of poly(dimethylsiloxane) by two-step plasma treatment for further grafting with chitosanâ€“Rose Bengal photosensitizer. Surface and Coatings Technology, 2013, 223, 92-97. | 2.2 | 40 |
| 33 | Characterisation of blends between poly(Îµ-caprolactone) and polysaccharides for tissue engineering applications. Materials Science and Engineering C, 2009, 29, 2174-2187. | 3.8 | 38 |
| 34 | Lipopeptides from Bacillus subtilis AC7 inhibit adhesion and biofilm formation of Candida albicans on silicone. Antonie Van Leeuwenhoek, 2016, 109, 1375-1388. | 0.7 | 38 |
| 35 | Surface functionalization of polyurethane scaffolds mimicking the myocardial microenvironment to support cardiac primitive cells. PLoS ONE, 2018, 13, e0199896. | 1.1 | 38 |
| 36 | Tumor-Derived cGAMP Regulates Activation of the Vasculature. Frontiers in Immunology, 2020, 11, 2090. | 2.2 | 37 |

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|---|---|---|---|
| 37 | Medical-Grade Silicone Coated with Rhamnolipid R89 Is Effective against Staphylococcus spp. Biofilms. Molecules, 2019, 24, 3843. | 1.7 | 36 |
| 38 | MicroRNA-Mediated Direct Reprogramming of Human Adult Fibroblasts Toward Cardiac Phenotype. Frontiers in Bioengineering and Biotechnology, 2020, 8, 529. | 2.0 | 36 |
| 39 | Poly(3â€hydroxybutyrateâ€<i>co</i>â€3â€hydroxyvalerate)/poly(Ïµâ€caprolactone) blends for tissue engineering applications in the form of hollow fibers. Journal of Biomedical Materials Research - Part A, 2008, 85A, 938-953. | 2.1 | 35 |
| 40 | Photoactive Chitosan Switching on Bone-Like Apatite Deposition. Biomacromolecules, 2010, 11, 309-315. | 2.6 | 35 |
| 41 | Melt-extruded guides for peripheral nerve regeneration. Part I: Poly(Îµ-caprolactone). Biomedical Microdevices, 2009, 11, 1037-1050. | 1.4 | 34 |
| 42 | Molecularly imprinted submicronspheres for applications in a novel model biosensor-film. Sensors and Actuators B: Chemical, 2010, 150, 394-401. | 4.0 | 34 |
| 43 | Wound dressing products: A translational investigation from the bench to the market. Engineered Regeneration, 2022, 3, 182-200. | 3.0 | 34 |
| 44 | Dual stimuli-responsive polyurethane-based hydrogels as smart drug delivery carriers for the advanced treatment of chronic skin wounds. Bioactive Materials, 2021, 6, 3013-3024. | 8.6 | 33 |
| 45 | Enzymaticallyâ€Modified Meltâ€Extruded Guides for Peripheral Nerve Repair. Engineering in Life Sciences, 2008, 8, 226-237. | 2.0 | 31 |
| 46 | Crossâ€linked collagen sponges loaded with plant polyphenols with inhibitory activity towards chronic wound enzymes. Biotechnology Journal, 2011, 6, 1208-1218. | 1.8 | 31 |
| 47 | Porous Poly(Îµâ€caprolactone) Nerve Guide Filled with Porous Gelatin Matrix for Nerve Tissue Engineering. Advanced Engineering Materials, 2011, 13, B151. | 1.6 | 31 |
| 48 | Current Limitations in the Treatment of Parkinsonâ€™s and Alzheimerâ€™s Diseases: State-of-the-Art and Future Perspective of Polymeric Carriers. Current Medicinal Chemistry, 2019, 25, 5755-5771. | 1.2 | 31 |
| 49 | Layer-by-layer coating of photoactive polymers for biomedical applications. Surface and Coatings Technology, 2012, 206, 2446-2453. | 2.2 | 29 |
| 50 | Poly(ester urethane) Guides for Peripheral Nerve Regeneration. Macromolecular Bioscience, 2011, 11, 245-256. | 2.1 | 28 |
| 51 | Innovative tissue engineering structures through advanced manufacturing technologies. Journal of Materials Science: Materials in Medicine, 2004, 15, 305-310. | 1.7 | 27 |
| 52 | Chitosan membranes for tissue engineering: comparison of different crosslinkers. Biomedical Materials (Bristol), 2015, 10, 065002. | 1.7 | 26 |
| 53 | Impact of Biomaterials on Differentiation and Reprogramming Approaches for the Generation of Functional Cardiomyocytes. Cells, 2018, 7, 114. | 1.8 | 24 |
| 54 | Plasma Treatment of Polymer Powder as an Effective Tool to Functionalize Polymers: Case Study Application on an Amphiphilic Polyurethane. Polymers, 2019, 11, 2109. | 2.0 | 23 |

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|---|---|---|---|
| 55 | Poly(Lactic Acid)-Based Blends With Tailored Physicochemical Properties for Tissue Engineering Applications: A Case Study. International Journal of Polymeric Materials and Polymeric Biomaterials, 2015, 64, 90-98. | 1.8 | 22 |
| 56 | Bioresorbable glass effect on the physico-chemical properties of bilayered scaffolds for osteochondral regeneration. Materials Letters, 2012, 89, 74-76. | 1.3 | 18 |
| 57 | Validation of in vitro assays in three-dimensional human dermal constructs. International Journal of Artificial Organs, 2018, 41, 779-788. | 0.7 | 18 |
| 58 | Blends of propylene-ethylene and propylene-1-butene random copolymers: I. Morphology and structure. Polymer, 2004, 45, 7549-7561. | 1.8 | 17 |
| 59 | Intermolecular interactions between B. mori silk fibroin and poly(l-lactic acid) in electrospun composite nanofibrous scaffolds. Materials Science and Engineering C, 2017, 70, 777-787. | 3.8 | 17 |
| 60 | Polyurethane-based thiomers: A new multifunctional copolymer platform for biomedical applications. Reactive and Functional Polymers, 2020, 146, 104413. | 2.0 | 16 |
| 61 | Electroconductive Photo-Curable PEGDA-Gelatin/PEDOT:PSS Hydrogels for Prospective Cardiac Tissue Engineering Application. Frontiers in Bioengineering and Biotechnology, 0, 10, . | 2.0 | 14 |
| 62 | Biomimetic soluble collagen purified from bones. Biotechnology Journal, 2012, 7, 1386-1394. | 1.8 | 12 |
| 63 | Silk fibres grafted with 2-hydroxyethyl methacrylate (HEMA) and 4-hydroxybutyl acrylate (HBA) for biomedical applications. International Journal of Biological Macromolecules, 2018, 107, 537-548. | 3.6 | 12 |
| 64 | PLGA Membranes Functionalized with Gelatin through Biomimetic Mussel-Inspired Strategy. Nanomaterials, 2020, 10, 2184. | 1.9 | 12 |
| 65 | PolyDOPA Musselâ€Inspired Coating as a Means for Hydroxyapatite Entrapment on Polytetrafluoroethylene Surface for Application in Periodontal Diseases. Macromolecular Bioscience, 2016, 16, 288-298. | 2.1 | 11 |
| 66 | Synthetic Biomaterial for Regenerative Medicine Applications. , 2017, , 901-921. | | 11 |
| 67 | Cardiac Tissue-like 3D Microenvironment Enhances Route towards Human Fibroblast Direct Reprogramming into Induced Cardiomyocytes by microRNAs. Cells, 2022, 11, 800. | 1.8 | 11 |
| 68 | iPS, organoids and 3D models as advanced tools for in vitro toxicology. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 136-140. | 0.9 | 10 |
| 69 | 3D Self-Organized Human Bloodâ€“Brain Barrier in a Microfluidic Chip. Methods in Molecular Biology, 2021, 2258, 205-219. | 0.4 | 9 |
| 70 | Using PoloxamerÂ® 407 as Building Block of Amphiphilic Poly(ether urethane)s: Effect of its Molecular Weight Distribution on Thermo-Sensitive Hydrogel Performances in the Perspective of Their Biomedical Application. Frontiers in Materials, 2020, 7, . | 1.2 | 9 |
| 71 | Poly(DL-lactide-co-Îµ-caprolactone) and poly(DL-lactide-co-glycolide) blends for biomedical application: Physical properties, cell compatibility, and in vitro degradation behavior. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 741-750. | 1.8 | 8 |
| 72 | Tailored functionalization of poly(L-lactic acid) substrates at the nanoscale to enhance cell response. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 526-546. | 1.9 | 8 |

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|---|---|---|---|
| 73 | Mussel-inspired antimicrobial coating on PTFE barrier membranes for guided tissue regeneration. Biomedical Materials (Bristol), 2021, 16, 035035. | 1.7 | 8 |
| 74 | Bioengineering Methods in MicroRNA-Mediated Direct Reprogramming of Fibroblasts Into Cardiomyocytes. Frontiers in Cardiovascular Medicine, 2021, 8, 750438. | 1.1 | 8 |
| 75 | Synthetic biodegradable medical polyurethanes. , 2017, , 189-216. | | 7 |
| 76 | In situ Forming Hyperbranched PEGâ€"Thiolated Hyaluronic Acid Hydrogels With Honey-Mimetic Antibacterial Properties. Frontiers in Bioengineering and Biotechnology, 2021, 9, 742135. | 2.0 | 7 |
| 77 | Custom-design of intrinsically antimicrobial polyurethane hydrogels as multifunctional injectable delivery systems for mini-invasive wound treatment. Engineered Regeneration, 2021, 2, 263-278. | 3.0 | 7 |
| 78 | Fundamental<i>in vitro</i>3D human skin equivalent tool development for assessing biological safety and biocompatibility â€" towards alternative for animal experiments. 4open, 2021, 4, 1. | 0.1 | 6 |
| 79 | A bio-hybrid mechanotransduction system based on ciliate cells. Microelectronic Engineering, 2015, 144, 51-56. | 1.1 | 5 |
| 80 | Drug-free antibacterial polymers for biomedical applications. Biomedical Science and Engineering, 2018, 2, . | 0.0 | 5 |
| 81 | Biological evaluation of materials for cardiovascular application: The role of the shortâ€term inflammatory response in endothelial regeneration. Journal of Biomedical Materials Research - Part A, 2013, 101, 3131-3140. | 2.1 | 4 |
| 82 | Scaffold functionalization to support a tissue biocompatibility. , 2018, , 255-277. | | 4 |
| 83 | Integration of Biomechanical and Biological Characterization in the Development of Porous Poly(caprolactone)-Based Membranes for Abdominal Wall Hernia Treatment. International Journal of Polymer Science, 2018, 2018, 1-15. | 1.2 | 3 |
| 84 | Influence of Drug-Carrier Polymers on Alpha-Synucleinopathies: A Neglected Aspect in New Therapies Development. BioMed Research International, 2018, 2018, 1-5. | 0.9 | 3 |
| 85 | Biomimetic Materials for Medical Application Through Enzymatic Modification. Advances in Biochemical Engineering/Biotechnology, 2010, 125, 181-205. | 0.6 | 2 |
| 86 | Biomimetic Tailoring of the Surface Properties of Polymers at the Nanoscale: Medical Applications. Nanoscience and Technology, 2011, , 645-689. | 1.5 | 2 |
| 87 | Bloodâ€Brainâ€"Barrier Microvasculatures: Modeling Nanocarrier Transport across a 3D In Vitro Human Bloodâ€Brainâ€"Barrier Microvasculature (Adv. Healthcare Mater. 7/2020). Advanced Healthcare Materials, 2020, 9, 2070021. | 3.9 | 2 |
| 88 | 2nd Centro3R Annual Meeting: 3Rs in Italian universities. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 493-495. | 0.9 | 2 |
| 89 | Bioartificial Biomaterials for Regenerative Medicine Applications. , 2014, , 113-136. | | 1 |
| 90 | Layer-by-layer coating of stainless steel plates mediated by surface priming treatment to improve antithrombogenic properties. Biomedical Science and Engineering, 2016, 1, . | 0.0 | 1 |

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| 91 | Approaching 3R teaching in biomedical engineering. Biomedical Science and Engineering, 2020, 3, . | 0.0 | 1 |
| 92 | Cellâ€“biomaterial interactions: the role of ligand functionalization. , 2020, , 139-173. | | 1 |
| 93 | Editorial: Advanced Therapies for Cardiac Regeneration. Frontiers in Bioengineering and Biotechnology, 2021, 9, 644076. | 2.0 | 1 |
| 94 | Biomaterials of Natural Origin in Regenerative Medicine. , 2013, , 271-308. | | 1 |
| 95 | Abstract 958: Tumor-vascular interactions promote STING-driven inflammation in the tumor microenvironment. Cancer Research, 2019, 79, 958-958. | 0.4 | 1 |
| 96 | Porous Chitsan-Gelatin Scaffolds Embedded with PLGA Nanoparticles for Bone Repair. Nature Precedings, 2010, , . | 0.1 | 0 |
| 97 | Biomedical Science and Engineering: a new multidisciplinary journal dealing with modern regenerative medicine strategies. Biomedical Science and Engineering, 2016, 1, . | 0.0 | 0 |
| 98 | Drug-Free Antibacterial Technology for Medical Applications - First Cambridge International Conference - December 14th, 2018 - Cambridge, UK. Biomedical Science and Engineering, 2019, 3, . | 0.0 | 0 |
| 99 | In vitro models of human cardiac fibrotic tissue on â€˜bioartificialâ€™ scaffolds. Biomedical Science and Engineering, 2020, , . | 0.0 | 0 |
| 100 | In vitro microfluidic modelling of the human blood-brain-barrier microvasculature and testing of nanocarrier transport. Biomedical Science and Engineering, 2020, 3, . | 0.0 | 0 |
| 101 | Abstract LT018: The perivascular niche protects ALK+ lymphoma cells from ALK inhibition through the CCL19/21-CCR7 axis. , 2021, , . | | 0 |
| 102 | Abstract 47: Analyzing immune cell infiltration of cancer spheroids in a 3D cell culture platform. , 2019, , . | | 0 |
| 103 | Direct-Write Deposition of Thermogels. Methods in Molecular Biology, 2021, 2147, 137-142. | 0.4 | 0 |
| 104 | Abstract 958: Tumor-vascular interactions promote STING-driven inflammation in the tumor microenvironment. , 2019, , . | | 0 |