# Clarisse Ribeiro

## List of Publications by Year in descending order

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98
papers

5,078
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81743
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69
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101
all docs

101
docs citations

101
times ranked

5642
citing authors

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Electroactive poly(vinylidene fluoride)-based structures for advanced applications. Nature Protocols, 2018, 13, 681-704. | 5.5 | 466 |
| 2 | Advances in Magnetic Nanoparticles for Biomedical Applications. Advanced Healthcare Materials, 2018, 7, 1700845. | 3.9 | 453 |
| 3 | Piezoelectric polymers as biomaterials for tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2015, 136, 46-55. | 2.5 | 364 |
| 4 | Influence of Processing Conditions on Polymorphism and Nanofiber Morphology of Electroactive Poly(vinylidene fluoride) Electrospun Membranes. Soft Materials, 2010, 8, 274-287. | 0.8 | 241 |
| 5 | Fluorinated Polymers as Smart Materials for Advanced Biomedical Applications. Polymers, 2018, 10, 161. | 2.0 | 196 |
| 6 | Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells. Journal of Biomedical Materials Research - Part A, 2015, 103, 2172-2175. | 2.1 | 148 |
| 7 | Effect of poling state and morphology of piezoelectric poly(vinylidene fluoride) membranes for skeletal muscle tissue engineering. RSC Advances, 2013, 3, 17938. | 1.7 | 128 |
| 8 | Proving the suitability of magnetoelectric stimuli for tissue engineering applications. Colloids and Surfaces B: Biointerfaces, 2016, 140, 430-436. | 2.5 | 126 |
| 9 | Tailoring the morphology and crystallinity of poly(L-lactide acid) electrospun membranes. Science and Technology of Advanced Materials, 2011, 12, 015001. | 2.8 | 115 |
| 10 | Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. RSC Advances, 2012, 2, 11504. | 1.7 | 106 |
| 11 | Bioinspired Three-Dimensional Magnetoactive Scaffolds for Bone Tissue Engineering. ACS Applied Materials &amp; Interfaces, 2019, 11, 45265-45275. | 4.0 | 101 |
| 12 | Poly(vinylidene fluoride) and copolymers as porous membranes for tissue engineering applications. Polymer Testing, 2015, 44, 234-241. | 2.3 | 99 |
| 13 | Piezoelectric poly(vinylidene fluoride) microstructure and poling state in active tissue engineering. Engineering in Life Sciences, 2015, 15, 351-356. | 2.0 | 91 |
| 14 | Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. Composites Part B: Engineering, 2018, 141, 70-75. | 5.9 | 88 |
| 15 | PHB-PEO electrospun fiber membranes containing chlorhexidine for drug delivery applications. Polymer Testing, 2014, 34, 64-71. | 2.3 | 87 |
| 16 | Fibronectin adsorption and cell response on electroactive poly(vinylidene fluoride) films. Biomedical Materials (Bristol), 2012, 7, 035004. | 1.7 | 83 |
| 17 | Influence of oxygen plasma treatment parameters on poly(vinylidene fluoride) electrospun fiber mats wettability. Progress in Organic Coatings, 2015, 85, 151-158. | 1.9 | 79 |
| 18 | Electrosprayed poly(vinylidene fluoride) microparticles for tissue engineering applications. RSC Advances, 2014, 4, 33013-33021. | 1.7 | 77 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | In vivo demonstration of the suitability of piezoelectric stimuli for bone reparation. Materials Letters, 2017, 209, 118-121. | 1.3 | 75 |
| 20 | Local piezoelectric activity of single poly(L-lactic acid) (PLLA) microfibers. Applied Physics A: Materials Science and Processing, 2012, 109, 51-55. | 1.1 | 71 |
| 21 | Influence of crystallinity and fiber orientation on hydrophobicity and biological response of poly(l-lactide) electrospun mats. Soft Matter, 2012, 8, 5818. | 1.2 | 66 |
| 22 | Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride). Journal of Biomedical Materials Research - Part A, 2015, 103, 919-928. | 2.1 | 63 |
| 23 | Relation between fiber orientation and mechanical properties of nano-engineered poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock | 5.9 | 63 |
| 24 | Physical-chemical properties of cross-linked chitosan electrospun fiber mats. Polymer Testing, 2012, 31, 1062-1069. | 2.3 | 52 |
| 25 | Electrospun styreneâ€“butadieneâ€“styrene elastomer copolymers for tissue engineering applications: Effect of butadiene/styrene ratio, block structure, hydrogenation and carbon nanotube loading on physical properties and cytotoxicity. Composites Part B: Engineering, 2014, 67, 30-38. | 5.9 | 52 |
| 26 | Strategies for the development of three dimensional scaffolds from piezoelectric poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 | 3.3 | 52 |
| 27 | Nanodiamonds/poly(vinylidene fluoride) composites for tissue engineering applications. Composites Part B: Engineering, 2017, 111, 37-44. | 5.9 | 52 |
| 28 | Ionic Liquid-Based Materials for Biomedical Applications. Nanomaterials, 2021, 11, 2401. | 1.9 | 52 |
| 29 | Tailoring Bacteria Response by Piezoelectric Stimulation. ACS Applied Materials &amp; Interfaces, 2019, 11, 27297-27305. | 4.0 | 51 |
| 30 | Surface roughness dependent osteoblast and fibroblast response on poly(<scp>l</scp>-lactide) films and electrospun membranes. Journal of Biomedical Materials Research - Part A, 2015, 103, 2260-2268. | 2.1 | 50 |
| 31 | Improved response of ionic liquid-based bending actuators by tailored interaction with the polar fluorinated polymer matrix. Electrochimica Acta, 2019, 296, 598-607. | 2.6 | 49 |
| 32 | Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. Journal of Materials Science, 2016, 51, 4442-4450. | 1.7 | 48 |
| 33 | Electroactive biomaterial surface engineering effects on muscle cells differentiation. Materials Science and Engineering C, 2018, 92, 868-874. | 3.8 | 47 |
| 34 | Magnetoelectric response on Terfenol-D/ P(VDF-TrFE) two-phase composites. Composites Part B: Engineering, 2017, 120, 97-102. | 5.9 | 46 |
| 35 | Ionic-Liquid-Based Electroactive Polymer Composites for Muscle Tissue Engineering. ACS Applied Polymer Materials, 2019, 1, 2649-2658. | 2.0 | 46 |
| 36 | Local piezoelectric response of single poly(vinylidene fluoride) electrospun fibers. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2605-2609. | 0.8 | 45 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Superhydrophilic poly(l-lactic acid) electrospun membranes for biomedical applications obtained by argon and oxygen plasma treatment. Applied Surface Science, 2016, 371, 74-82. | 3.1 | 44 |
| 38 | Hydrogel-based magnetoelectric microenvironments for tissue stimulation. Colloids and Surfaces B: Biointerfaces, 2019, 181, 1041-1047. | 2.5 | 44 |
| 39 | Osteoblast, fibroblast and in vivo biological response to poly(vinylidene fluoride) based composite materials. Journal of Materials Science: Materials in Medicine, 2013, 24, 395-403. | 1.7 | 40 |
| 40 | Electromechanical actuators based on poly(vinylidene fluoride) with [N1Â1Â1Â2(OH)][NTf2] and [C2mim][C2SO4]. Journal of Materials Science, 2016, 51, 9490-9503. | 1.7 | 40 |
| 41 | Fiber average size and distribution dependence on the electrospinning parameters of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overl<br>Science and Processing, 2012, 109, 685-691. | 1.1 | 39 |
| 42 | Magnetically Activated Electroactive Microenvironments for Skeletal Muscle Tissue Regeneration. ACS Applied Bio Materials, 2020, 3, 4239-4252. | 2.3 | 39 |
| 43 | Influence of electrospinning parameters on poly(hydroxybutyrate) electrospun membranes fiber size and distribution. Polymer Engineering and Science, 2014, 54, 1608-1617. | 1.5 | 35 |
| 44 | Human Mesenchymal Stem Cells Growth and Osteogenic Differentiation on Piezoelectric Poly(vinylidene fluoride) Microsphere Substrates. International Journal of Molecular Sciences, 2017, 18, 2391. | 1.8 | 34 |
| 45 | All-printed multilayer materials with improved magnetoelectric response. Journal of Materials Chemistry C, 2019, 7, 5394-5400. | 2.7 | 34 |
| 46 | Effect of filler content on morphology and physicalâ€“chemical characteristics of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.7 | 30 |
| 47 | Bioactive albumin functionalized polylactic acid membranes for improved biocompatibility. Reactive and Functional Polymers, 2013, 73, 1399-1404. | 2.0 | 29 |
| 48 | Physically Active Bioreactors for Tissue Engineering Applications. Advanced Biology, 2020, 4, e2000125. | 3.0 | 29 |
| 49 | Piezo- and Magnetoelectric Polymers as Biomaterials for Novel Tissue Engineering Strategies. MRS Advances, 2018, 3, 1671-1676. | 0.5 | 26 |
| 50 | Influence of fiber diameter and crystallinity on the stability of electrospun poly(l-lactic acid) membranes to hydrolytic degradation. Polymer Testing, 2012, 31, 770-776. | 2.3 | 25 |
| 51 | Magnetically Controlled Drug Release System through Magnetomechanical Actuation. Advanced Healthcare Materials, 2016, 5, 3027-3034. | 3.9 | 25 |
| 52 | Electroactive Polymers as Actuators. , 2017, , 319-352. |  | 25 |
| 53 | Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. Materialia, 2020, 12, 100709. | 1.3 | 24 |
| 54 | Processing and size range separation of pristine and magnetic poly( l -lactic acid) based microspheres for biomedical applications. Journal of Colloid and Interface Science, 2016, 476, 79-86. | 5.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Tailored Biodegradable and Electroactive Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Based Morphologies for Tissue Engineering Applications. International Journal of Molecular Sciences, 2018, 19, 2149. | 1.8 | 23 |
| 56 | Surface Charge-Mediated Cellâ€“Surface Interaction on Piezoelectric Materials. ACS Applied Materials &amp; Interfaces, 2020, 12, 191-199. | 4.0 | 23 |
| 57 | Printed multifunctional magnetically activated energy harvester with sensing capabilities. Nano Energy, 2022, 94, 106885. | 8.2 | 22 |
| 58 | Chitosan patterning on titanium implants. Progress in Organic Coatings, 2017, 111, 23-28. | 1.9 | 21 |
| 59 | Magnetic Bioreactor for Magneto-, Mechano- and Electroactive Tissue Engineering Strategies. Sensors, 2020, 20, 3340. | 2.1 | 21 |
| 60 | Thermal Properties of Electrospun Poly(Lactic Acid) Membranes. Journal of Macromolecular Science - Physics, 2012, 51, 411-424. | 0.4 | 20 |
| 61 | Polymeric Electrospun Fibrous Dressings for Topical Co-delivery of Acyclovir and Omega-3 Fatty Acids. Frontiers in Bioengineering and Biotechnology, 2019, 7, 390. | 2.0 | 20 |
| 62 | Reconfigurable 3D-printable magnets with improved maximum energy product. Journal of Materials Chemistry C, 2020, 8, 952-958. | 2.7 | 18 |
| 63 | Morphology Dependence Degradation of Electro- and Magnetoactive Poly(3-hydroxybutyrate-co-hydroxyvalerate) for Tissue Engineering Applications. Polymers, 2020, 12, 953. | 2.0 | 18 |
| 64 | Multifunctional Platform Based on Electroactive Polymers and Silica Nanoparticles for Tissue Engineering Applications. Nanomaterials, 2018, 8, 933. | 1.9 | 16 |
| 65 | Tailoring Electrospun Poly(<scp>l</scp>-lactic acid) Nanofibers as Substrates for Microfluidic Applications. ACS Applied Materials &amp; Interfaces, 2020, 12, 60-69. | 4.0 | 16 |
| 66 | Tailoring the morphology and crystallinity of poly(L-lactide acid) electrospun membranes. Science and Technology of Advanced Materials, 2011, 12, 015001. | 2.8 | 16 |
| 67 | Improving Magnetoelectric Contactless Sensing and Actuation through Anisotropic Nanostructures. Journal of Physical Chemistry C, 2018, 122, 19189-19196. | 1.5 | 15 |
| 68 | Development of bio-hybrid piezoresistive nanocomposites using silk-elastin protein copolymers. Composites Science and Technology, 2019, 172, 134-142. | 3.8 | 14 |
| 69 | Tuning Myoblast and Preosteoblast Cell Adhesion Site, Orientation, and Elongation through Electroactive Micropatterned Scaffolds. ACS Applied Bio Materials, 2019, 2, 1591-1602. | 2.3 | 14 |
| 70 | Patterned Piezoelectric Scaffolds for Osteogenic Differentiation. International Journal of Molecular Sciences, 2020, 21, 8352. | 1.8 | 14 |
| 71 | Silica nanoparticles surface charge modulation of the electroactive phase content and physical-chemical properties of poly(vinylidene fluoride) nanocomposites. Composites Part B: Engineering, 2020, 185, 107786. | 5.9 | 14 |
| 72 | Design and validation of a biomechanical bioreactor for cartilage tissue culture. Biomechanics and Modeling in Mechanobiology, 2016, 15, 471-478. | 1.4 | 13 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 73 | Connecting free volume with shape memory properties in noncytotoxic gammaâ€irradiated polycyclooctene. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1080-1088. | 2.4 | 12 |
| 74 | Piezoresistive sensors for force mapping of hip-prostheses. Sensors and Actuators A: Physical, 2013, 195, 133-138. | 2.0 | 10 |
| 75 | Immunomodulatory and regenerative effects of the full and fractioned adipose tissue derived stem cells secretome in spinal cord injury. Experimental Neurology, 2022, 351, 113989. | 2.0 | 10 |
| 76 | Greener Solvent-Based Processing of Magnetoelectric Nanocomposites. ACS Sustainable Chemistry and Engineering, 2022, 10, 4122-4132. | 3.2 | 10 |
| 77 | Mechanical fatigue performance of PCLâ€chondroprogenitor constructs after cell culture under bioreactor mechanical stimulus. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 330-338. | 1.6 | 9 |
| 78 | Understanding Myoblast Differentiation Pathways When Cultured on Electroactive Scaffolds through Proteomic Analysis. ACS Applied Materials &amp; Interfaces, 2022, 14, 26180-26193. | 4.0 | 9 |
| 79 | Biodegradable Hydrogels Loaded with Magnetically Responsive Microspheres as 2D and 3D Scaffolds. Nanomaterials, 2020, 10, 2421. | 1.9 | 8 |
| 80 | Environmentally Friendly Conductive Screenâ€Printable Inks Based on Nâ€Doped Graphene and Polyvinylpyrrolidone. Advanced Engineering Materials, 2022, 24, 2101258. | 1.6 | 8 |
| 81 | Fabrication of Poly(lactic acid)-Poly(ethylene oxide) Electrospun Membranes with Controlled Micro to Nanofiber Sizes. Journal of Nanoscience and Nanotechnology, 2012, 12, 6746-6753. | 0.9 | 7 |
| 82 | Electroactive poly(vinylidene fluoride)-based materials: recent progress, challenges, and opportunities. , 2020, , 1-43. |  | 7 |
| 83 | Biodegradable polymer-based microfluidic membranes for sustainable point-of-care devices. Chemical Engineering Journal, 2022, 448, 137639. | 6.6 | 7 |
| 84 | Metamorphic biomaterials. , 2017, , 69-99. |  | 6 |
| 85 | Fractionating stem cells secretome for Parkinson's disease modeling: Is it the whole better than the sum of its parts?. Biochimie, 2021, 189, 87-98. | 1.3 | 6 |
| 86 | Natural based reusable materials for microfluidic substrates: The silk road towards sustainable portable analytical systems. Applied Materials Today, 2022, 28, 101507. | 2.3 | 6 |
| 87 | Electroactive poly(vinylidene fluoride) electrospun fiber mats coated with polyaniline and polypyrrole for tissue regeneration applications. Reactive and Functional Polymers, 2022, 170, 105118. | 2.0 | 4 |
| 88 | Tuning magnetic response and ionic conductivity of electrospun hybrid membranes for tissue regeneration strategies. Polymers for Advanced Technologies, 2022, 33, 1233-1243. | 1.6 | 4 |
| 89 | Piezoelectric biodegradable poly(3â€hydroxybutyrateâ€coâ€3â€hydroxyvalerate) based electrospun fiber mats with tailored porosity. Polymers for Advanced Technologies, 0, , . | 1.6 | 4 |
| 90 | Ionic liquid modified electroactive polymer-based microenvironments for tissue engineering. Polymer, 2022, 246, 124731. | 1.8 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Electroactive functional microenvironments from bioactive polymers: A new strategy to address cancer. , 2022, 137, 212849. |  | 4 |
| 92 | Multidimensional Biomechanics Approaches Though Electrically and Magnetically Active Microenvironments. , 2019, , 253-267. |  | 3 |
| 93 | Micro- and nanostructured piezoelectric polymers. Frontiers of Nanoscience, 2019, , 35-65. | 0.3 | 3 |
| 94 | Electrospun Polymeric Smart Materials for Tissue Engineering Applications. , 2017, , 251-282. |  | 2 |
| 95 | Poly(lactic-co-glycolide) based biodegradable electrically and magnetically active microenvironments for tissue regeneration applications. European Polymer Journal, 2022, , 111197. | 2.6 | 2 |
| 96 | Piezoelectric Polymers and Polymer Composites for Sensors and Actuators. , 2018, , . |  | 0 |
| 97 | Silk Fibroin Magnetoactive Nanocomposite Films and Membranes for Dynamic Bone Tissue Engineering Strategies. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 98 | Ionic-triggered magnetoelectric coupling for magnetic sensing applications. Applied Materials Today, 2022, 29, 101590. | 2.3 | 0 |