

# Jiongyu Ren

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

412  
citations

933410

10  
h-index

839512

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

593  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Melt-electrospun polycaprolactone strontium-substituted bioactive glass scaffolds for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3140-3153.                               | 4.0  | 77        |
| 2  | A preclinical large-animal model for the assessment of critical-size load-bearing bone defect reconstruction. <i>Nature Protocols</i> , 2020, 15, 877-924.  | 12.0 | 75        |
| 3  | Improved fabrication of melt electrospun tissue engineering scaffolds using direct writing and advanced electric field control. <i>Biointerphases</i> , 2015, 10, 011006.   | 1.6  | 67        |
| 4  | Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium-Substituted Bioactive Glass/Polycaprolactone Microfibers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900019.     | 3.9  | 38        |
| 5  | Microenvironment engineering of osteoblastic bone metastases reveals osteomimicry of patient-derived prostate cancer xenografts. <i>Biomaterials</i> , 2019, 220, 119402.   | 11.4 | 28        |
| 6  | Development of Mechanically Enhanced Polycaprolactone Composites by a Functionalized Titanate Nanofiller for Melt Electrowriting in 3D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47993-48006. | 8.0  | 20        |
| 7  | In vitro and in vivo investigation of a zonal microstructured scaffold for osteochondral defect repair. <i>Biomaterials</i> , 2022, 286, 121548.  | 11.4 | 19        |
| 8  | Investigation of Sustained BMP Delivery in the Prevention of Medication-Related Osteonecrosis of the Jaw (MRONJ) in a Rat Model. <i>Macromolecular Bioscience</i> , 2019, 19, e1900226.                                 | 4.1  | 16        |
| 9  | Highly substituted calcium silicates 3D printed with complex architectures to produce stiff, strong and bioactive scaffolds for bone regeneration. <i>Applied Materials Today</i> , 2021, 25, 101230.                   | 4.3  | 12        |
| 10 | Enzyme-Degradable 3D Multi-Material Microstructures. <i>Advanced Functional Materials</i> , 2021, 31, 2006998.  | 14.9 | 11        |
| 11 | Additive manufacturing enables personalised porous high-density polyethylene surgical implant manufacturing with improved tissue and vascular ingrowth. <i>Applied Materials Today</i> , 2021, 22, 100965.              | 4.3  | 10        |
| 12 | Poly- $\mu$ -Caprolactone/Fibrin-Alginate Scaffold: A New Pro-Angiogenic Composite Biomaterial for the Treatment of Bone Defects. <i>Polymers</i> , 2021, 13, 3399.   | 4.5  | 10        |
| 13 | Development of 3D Printed Biodegradable Mesh with Antimicrobial Properties for Pelvic Organ Prolapse. <i>Polymers</i> , 2022, 14, 763.  | 4.5  | 10        |
| 14 | Using melt-electrowritten microfibrils for tailoring scaffold mechanics of 3D bioprinted chondrocyte-laden constructs. <i>Bioprinting</i> , 2021, 23, e00158.   | 5.8  | 7         |
| 15 | The Patenting and Technological Trends in Hernia Mesh Implants. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 48-73.  | 4.8  | 5         |
| 16 | Melt-electrospun polycaprolactone-strontium substituted bioactive glass scaffolds for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 102, n/a-n/a.                                 | 4.0  | 2         |
| 17 | Ultrasound Imaging Offers Promising Alternative to Create 3-D Models for Personalised Auricular Implants. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 450-459.  | 1.5  | 2         |