# Christopher Blake Rodell

List of Publications by Year
in descending order



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|---|---|---|---|
| 44 papers | 5,488 citations | 257450 24 h-index | 254184 43 g-index |

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|---|---|---|---|
| 44 all docs | 44 docs citations | 44 times ranked | 7881 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Direct 3D Printing of Shearâ€Thinning Hydrogels into Selfâ€Healing Hydrogels. Advanced Materials, 2015, 27, 5075-5079. | 21.0 | 831 |
| 2 | TLR7/8-agonist-loaded nanoparticles promote the polarization of tumour-associated macrophages to enhance cancer immunotherapy. Nature Biomedical Engineering, 2018, 2, 578-588. | 22.5 | 714 |
| 3 | 3D Printing of Shear-Thinning Hyaluronic Acid Hydrogels with Secondary Cross-Linking. ACS Biomaterials Science and Engineering, 2016, 2, 1743-1751. | 5.2 | 473 |
| 4 | Shear-thinning and self-healing hydrogels as injectable therapeutics and for 3D-printing. Nature Protocols, 2017, 12, 1521-1541. | 12.0 | 382 |
| 5 | Nuclear-Import Receptors Reverse Aberrant Phase Transitions of RNA-Binding Proteins with Prion-like Domains. Cell, 2018, 173, 677-692.e20. | 28.9 | 376 |
| 6 | Rational Design of Network Properties in Guestâ€“Host Assembled and Shear-Thinning Hyaluronic Acid Hydrogels. Biomacromolecules, 2013, 14, 4125-4134. | 5.4 | 349 |
| 7 | Shearâ€Thinning Supramolecular Hydrogels with Secondary Autonomous Covalent Crosslinking to Modulate Viscoelastic Properties In Vivo. Advanced Functional Materials, 2015, 25, 636-644. | 14.9 | 278 |
| 8 | Injectable and Cytocompatible Tough Doubleâ€Network Hydrogels through Tandem Supramolecular and Covalent Crosslinking. Advanced Materials, 2016, 28, 8419-8424. | 21.0 | 233 |
| 9 | Progress in material design for biomedical applications. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14444-14451. | 7.1 | 201 |
| 10 | Supramolecular Guestâ€“Host Interactions for the Preparation of Biomedical Materials. Bioconjugate Chemistry, 2015, 26, 2279-2289. | 3.6 | 162 |
| 11 | Reversible Control of Network Properties in Azobenzene-Containing Hyaluronic Acid-Based Hydrogels. Bioconjugate Chemistry, 2018, 29, 905-913. | 3.6 | 132 |
| 12 | Protease-degradable electrospun fibrous hydrogels. Nature Communications, 2015, 6, 6639. | 12.8 | 126 |
| 13 | Epicardial YAP/TAZ orchestrate an immunosuppressive response following myocardial infarction. Journal of Clinical Investigation, 2017, 127, 899-911. | 8.2 | 126 |
| 14 | Quantitative Imaging of Tumor-Associated Macrophages and Their Response to Therapy Using <sup>64</sup>Cu-Labeled Macrin. ACS Nano, 2018, 12, 12015-12029. | 14.6 | 117 |
| 15 | Injectable shear-thinning hydrogels used to deliver endothelial progenitor cells, enhance cell engraftment, and improve ischemic myocardium. Journal of Thoracic and Cardiovascular Surgery, 2015, 150, 1268-1277. | 0.8 | 113 |
| 16 | Sustained small molecule delivery from injectable hyaluronic acid hydrogels through hostâ€“guest mediated retention. Journal of Materials Chemistry B, 2015, 3, 8010-8019. | 5.8 | 111 |
| 17 | Injectable Shear-Thinning Hydrogels for Minimally Invasive Delivery to Infarcted Myocardium to Limit Left Ventricular Remodeling. Circulation: Cardiovascular Interventions, 2016, 9, . | 3.9 | 98 |
| 18 | Secondary Photocrosslinking of Injectable Shearâ€Thinning Dockâ€andâ€Lock Hydrogels. Advanced Healthcare Materials, 2013, 2, 1028-1036. | 7.6 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Selective Proteolytic Degradation of Guestâ€“Host Assembled, Injectable Hyaluronic Acid Hydrogels. ACS Biomaterials Science and Engineering, 2015, 1, 277-286. | 5.2 | 79 |
| 20 | Development of Adamantane-Conjugated TLR7/8 Agonists for Supramolecular Delivery and Cancer Immunotherapy. Theranostics, 2019, 9, 8426-8436. | 10.0 | 65 |
| 21 | Local immunotherapy via delivery of interleukin-10 and transforming growth factor Î² antagonist for treatment of chronic kidney disease. Journal of Controlled Release, 2015, 206, 131-139. | 9.9 | 60 |
| 22 | Therapeutically reprogrammed nutrient signalling enhances nanoparticulate albumin bound drug uptake and efficacy in KRAS-mutant cancer. Nature Nanotechnology, 2021, 16, 830-839. | 31.5 | 55 |
| 23 | Delivery of interleukin-10 via injectable hydrogels improves renal outcomes and reduces systemic inflammation following ischemic acute kidney injury in mice. American Journal of Physiology - Renal Physiology, 2016, 311, F362-F372. | 2.7 | 50 |
| 24 | Polymeric materials for immune engineering: Molecular interaction to biomaterial design. Acta Biomaterialia, 2021, 133, 139-152. | 8.3 | 30 |
| 25 | Screening for new macrophage therapeutics. Theranostics, 2019, 9, 7714-7729. | 10.0 | 26 |
| 26 | A Supramolecular Nanocarrier for Delivery of Amiodarone Anti-Arrhythmic Therapy to the Heart. Bioconjugate Chemistry, 2019, 30, 733-740. | 3.6 | 24 |
| 27 | Ordered, adherent layers of nanofibers enabled by supramolecular interactions. Journal of Materials Chemistry B, 2014, 2, 8110-8115. | 5.8 | 22 |
| 28 | Evolution of hierarchical porous structures in supramolecular guestâ€“host hydrogels. Soft Matter, 2016, 12, 7839-7847. | 2.7 | 21 |
| 29 | Visualization of Injectable Hydrogels Using Chemical Exchange Saturation Transfer MRI. ACS Biomaterials Science and Engineering, 2015, 1, 227-237. | 5.2 | 19 |
| 30 | Effects of hydrogel injection on borderzone contractility post-myocardial infarction. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1533-1542. | 2.8 | 18 |
| 31 | Macrophage-Targeted Therapy Unlocks Antitumoral Cross-talk between IFNÎ³-Secreting Lymphocytes and IL12-Producing Dendritic Cells. Cancer Immunology Research, 2022, 10, 40-55. | 3.4 | 18 |
| 32 | Myeloid Cell-Targeted Nanocarriers Efficiently Inhibit Cellular Inhibitor of Apoptosis for Cancer Immunotherapy. Cell Chemical Biology, 2020, 27, 94-104.e5. | 5.2 | 16 |
| 33 | How hydrogel inclusions modulate the local mechanical response in early and fully formed post-infarcted myocardium. Acta Biomaterialia, 2020, 114, 296-306. | 8.3 | 16 |
| 34 | Computational sensitivity investigation of hydrogel injection characteristics for myocardial support. Journal of Biomechanics, 2017, 64, 231-235. | 2.1 | 13 |
| 35 | Applications of Macrocyclic Host Molecules in Immune Modulation and Therapeutic Delivery. Frontiers in Chemistry, 2021, 9, 658548. | 3.6 | 12 |
| 36 | Cathelicidin Related Antimicrobial Peptide (CRAMP) Enhances Bone Marrow Cell Retention and Attenuates Cardiac Dysfunction in a Mouse Model of Myocardial Infarction. Stem Cell Reviews and Reports, 2018, 14, 702-714. | 5.6 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | An ACE therapy for COVID-19. Science Translational Medicine, 2020, 12, . | 12.4 | 10 |
| 38 | Quantification of Cellular Drug Biodistribution Addresses Challenges in Evaluating In Vitro and In Vivo Encapsulated Drug Delivery. Advanced Therapeutics, 2021, 4, 2000125. | 3.2 | 6 |
| 39 | Radicals promote magnetic gel assembly. Nature, 2014, 514, 574-575. | 27.8 | 4 |
| 40 | Measurement of glomerular filtration rate reveals that subcapsular injection of shearâ€thinning hyaluronic acid hydrogels does not impair kidney function in mice. Journal of Biomedical Materials Research - Part A, 2022, 110, 652-658. | 4.0 | 3 |
| 41 | Injectable Shear-Thinning Hydrogels Prevent Ischemic Mitral Regurgitation and Normalize Ventricular Flow Dynamics. Seminars in Thoracic and Cardiovascular Surgery, 2020, 32, 445-453. | 0.6 | 1 |
| 42 | NIMG-48. TLR7/8-AGONIST-LOADED NANOPARTICLES REPROGRAM TUMOR-ASSOCIATED MYELOID CELLS FOR EFFECTIVE IMMUNOTHERAPY OF EXPERIMENTAL GLIOMA AND MRI-BASED TREATMENT MONITORING. Neuro-Oncology, 2021, 23, vi139-vi140. | 1.2 | 1 |
| 43 | Tunable Blood Shunt for Neonates With Complex Congenital Heart Defects. Frontiers in Bioengineering and Biotechnology, 2021, 9, 734310. | 4.1 | 1 |
| 44 | An affinity for pure drugs. Science Translational Medicine, 2020, 12, . | 12.4 | 0 |