

Luo Gu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

5,625
citations

23
h-index

37
g-index

37
ext. papers

6,575
ext. citations

16.1
avg, IF

5.89
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 35 | The living interface between synthetic biology and biomaterial design.. <i>Nature Materials</i> , 2022 , 21, 390-397 | 32.7 | 4 |
| 34 | Submolecular Tuning of Ligand Size and Spacing for Dynamic Macrophage Modulation.. <i>Advanced Materials</i> , 2022 , e2110340 | 24 | 4 |
| 33 | Deep learning identification of stiffness markers in breast cancer.. <i>Biomaterials</i> , 2022 , 285, 121540 | 15.6 | 0 |
| 32 | Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , 2021 , 121, 11149-11193 | 68.1 | 30 |
| 31 | Probing Membrane Protein Association Using Concentration-Dependent Number and Brightness. <i>Angewandte Chemie</i> , 2021 , 133, 6577-6582 | 3.6 | 0 |
| 30 | Probing Membrane Protein Association Using Concentration-Dependent Number and Brightness. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6503-6508 | 16.4 | 4 |
| 29 | Functional heterogeneity of IFN- γ -licensed mesenchymal stromal cell immunosuppressive capacity on biomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 1 |
| 28 | Alginate Hydrogels for Bone Regeneration: The Immune Competence of the Animal Model Matters. <i>Tissue Engineering - Part A</i> , 2020 , 26, 852-862 | 3.9 | 14 |
| 27 | Single-Shot Mesoporous Silica Rods Scaffold for Induction of Humoral Responses Against Small Antigens. <i>Advanced Functional Materials</i> , 2020 , 30, 2002448 | 15.6 | 17 |
| 26 | Tissue-engineered blood-brain barrier models via directed differentiation of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2019 , 9, 13957 | 4.9 | 44 |
| 25 | Biomaterials as vectors for the delivery of CRISPR-Cas9. <i>Biomaterials Science</i> , 2019 , 7, 1240-1261 | 7.4 | 52 |
| 24 | RNA-seq reveals diverse effects of substrate stiffness on mesenchymal stem cells. <i>Biomaterials</i> , 2018 , 181, 182-188 | 15.6 | 40 |
| 23 | Material microenvironmental properties couple to induce distinct transcriptional programs in mammalian stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8368-E8377 | 11.5 | 67 |
| 22 | Liposomal Delivery Enhances Immune Activation by STING Agonists for Cancer Immunotherapy. <i>Advanced Biology</i> , 2017 , 1, 1600013 | 3.5 | 122 |
| 21 | Substrate Stress-Relaxation Regulates Scaffold Remodeling and Bone Formation In Vivo. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601185 | 10.1 | 68 |
| 20 | Mechanical confinement regulates cartilage matrix formation by chondrocytes. <i>Nature Materials</i> , 2017 , 16, 1243-1251 | 27 | 220 |
| 19 | Hydrogel substrate stress-relaxation regulates the spreading and proliferation of mouse myoblasts. <i>Acta Biomaterialia</i> , 2017 , 62, 82-90 | 10.8 | 72 |

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|----|---|------|------|
| 18 | The effect of surface modification of mesoporous silica micro-rod scaffold on immune cell activation and infiltration. <i>Biomaterials</i> , 2016 , 83, 249-56 | 15.6 | 65 |
| 17 | Biomaterials and emerging anticancer therapeutics: engineering the microenvironment. <i>Nature Reviews Cancer</i> , 2016 , 16, 56-66 | 31.3 | 266 |
| 16 | Hydrogels with tunable stress relaxation regulate stem cell fate and activity. <i>Nature Materials</i> , 2016 , 15, 326-34 | 27 | 1153 |
| 15 | Sequential release of nanoparticle payloads from ultrasonically burstable capsules. <i>Biomaterials</i> , 2016 , 75, 91-101 | 15.6 | 37 |
| 14 | Substrate stress relaxation regulates cell spreading. <i>Nature Communications</i> , 2015 , 6, 6364 | 17.4 | 485 |
| 13 | Size Control of Porous Silicon Nanoparticles by Electrochemical Perforation Etching. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 252-256 | 3.1 | 77 |
| 12 | Biphasic ferrogels for triggered drug and cell delivery. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1869-76 | 10.1 | 105 |
| 11 | In vivo time-gated fluorescence imaging with biodegradable luminescent porous silicon nanoparticles. <i>Nature Communications</i> , 2013 , 4, 2326 | 17.4 | 249 |
| 10 | In vivo clearance and toxicity of monodisperse iron oxide nanocrystals. <i>ACS Nano</i> , 2012 , 6, 4947-54 | 16.7 | 161 |
| 9 | Multivalent porous silicon nanoparticles enhance the immune activation potency of agonistic CD40 antibody. <i>Advanced Materials</i> , 2012 , 24, 3981-7 | 24 | 80 |
| 8 | Nanoparticles for Immunotherapy: Multivalent Porous Silicon Nanoparticles Enhance the Immune Activation Potency of Agonistic CD40 Antibody (Adv. Mater. 29/2012). <i>Advanced Materials</i> , 2012 , 24, 4025-4025 | 24 | 1 |
| 7 | Bioresponsive mesoporous silica nanoparticles for triggered drug release. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19582-5 | 16.4 | 303 |
| 6 | Porous silicon nanoparticle photosensitizers for singlet oxygen and their phototoxicity against cancer cells. <i>ACS Nano</i> , 2011 , 5, 3651-9 | 16.7 | 242 |
| 5 | Magnetic luminescent porous silicon microparticles for localized delivery of molecular drug payloads. <i>Small</i> , 2010 , 6, 2546-52 | 11 | 95 |
| 4 | Drug delivery: Magnetic Luminescent Porous Silicon Microparticles for Localized Delivery of Molecular Drug Payloads (Small 22/2010). <i>Small</i> , 2010 , 6, 2545-2545 | 11 | |
| 3 | Detection of protease activity by FRET using porous silicon as an energy acceptor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1374-1376 | 1.6 | 7 |
| 2 | Biodegradable luminescent porous silicon nanoparticles for in vivo applications. <i>Nature Materials</i> , 2009 , 8, 331-6 | 27 | 1527 |
| 1 | Scaffold Vaccines for Generating Robust and Tunable Antibody Responses. <i>Advanced Functional Materials</i> , 2110905 | 15.6 | 0 |

