Luo Gu

List of Publications by Year
in descending order

36 papers	7,427 citations	236925 25 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	11148 citing authors

#	Article	IF	Citations
1	Scaffold Vaccines for Generating Robust and Tunable Antibody Responses. Advanced Functional Materials, 2022, 32, .	14.9	9
2	The living interface between synthetic biology and biomaterial design. Nature Materials, 2022, 21, 390-397.	27.5	68
3	Submolecular Ligand Size and Spacing for Cell Adhesion. Advanced Materials, 2022, 34, e2110340.	21.0	13
4	Deep learning identification of stiffness markers in breast cancer. Biomaterials, 2022, 285, 121540.	11.4	8
5	Probing Membrane Protein Association Using Concentrationâ€Dependent Number and Brightness. Angewandte Chemie, 2021, 133, 6577-6582.	2.0	2
6	Probing Membrane Protein Association Using Concentrationâ€Dependent Number and Brightness. Angewandte Chemie - International Edition, 2021, 60, 6503-6508.	13.8	11
7	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. Chemical Reviews, 2021, 121, 11149-11193.	47.7	161
8	Functional heterogeneity of IFN-Î³â€"licensed mesenchymal stromal cell immunosuppressive capacity on biomaterials. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
9	Singleâ€Shot Mesoporous Silica Rods Scaffold for Induction of Humoral Responses Against Small Antigens. Advanced Functional Materials, 2020, 30, 2002448.	14.9	31
10	Alginate Hydrogels for <i>In Vivo</i> Bone Regeneration: The Immune Competence of the Animal Model Matters. Tissue Engineering - Part A, 2020, 26, 852-862.	3.1	24
11	Tissue-engineered blood-brain barrier models via directed differentiation of human induced pluripotent stem cells. Scientific Reports, 2019, 9, 13957.	3.3	67
12	Biomaterials as vectors for the delivery of CRISPRâ€"Cas9. Biomaterials Science, 2019, 7, 1240-1261.	5.4	75
13	Tailored Silica Nanomaterials for Immunotherapy. ACS Central Science, 2018, 4, 527-529.	11.3	15
14	RNA-seq reveals diverse effects of substrate stiffness on mesenchymal stem cells. Biomaterials, 2018, 181, 182-188.	11.4	64
15	Material microenvironmental properties couple to induce distinct transcriptional programs in mammalian stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8368-E8377.	7.1	93
16	Liposomal Delivery Enhances Immune Activation by STING Agonists for Cancer Immunotherapy. Advanced Biology, 2017, 1, 1600013.	3.0	175
17	Substrate Stressâ€Relaxation Regulates Scaffold Remodeling and Bone Formation In Vivo. Advanced Healthcare Materials, 2017, 6, 1601185.	7.6	104
18	Mechanical confinement regulates cartilage matrix formation by chondrocytes. Nature Materials, 2017, 16, 1243-1251.	27.5	348

#	Article	IF	Citations
19	Hydrogel substrate stress-relaxation regulates the spreading and proliferation of mouse myoblasts. Acta Biomaterialia, 2017, 62, 82-90.	8.3	120
20	The effect of surface modification of mesoporous silica micro-rod scaffold on immune cell activation and infiltration. Biomaterials, 2016, 83, 249-256.	11.4	85
21	Biomaterials and emerging anticancer therapeutics: engineering the microenvironment. Nature Reviews Cancer, 2016, 16, 56-66.	28.4	341
22	Hydrogels with tunable stress relaxation regulate stem cell fate and activity. Nature Materials, 2016, 15, 326-334.	27.5	1,650
23	Sequential release of nanoparticle payloads from ultrasonically burstable capsules. Biomaterials, 2016, 75, 91-101.	11.4	45
24	Substrate stress relaxation regulates cell spreading. Nature Communications, 2015, 6, 6364.	12.8	637
25	Size Control of Porous Silicon Nanoparticles by Electrochemical Perforation Etching. Particle and Particle Systems Characterization, 2014, 31, 252-256.	2.3	103
26	Biphasic Ferrogels for Triggered Drug and Cell Delivery. Advanced Healthcare Materials, 2014, 3, 1869-1876.	7.6	126
27	In vivo time-gated fluorescence imaging with biodegradable luminescent porous silicon nanoparticles. Nature Communications, 2013, 4, 2326.	12.8	303
28	<i>In Vivo</i> Clearance and Toxicity of Monodisperse Iron Oxide Nanocrystals. ACS Nano, 2012, 6, 4947-4954.	14.6	187
29	Multivalent Porous Silicon Nanoparticles Enhance the Immune Activation Potency of Agonistic CD40 Antibody. Advanced Materials, 2012, 24, 3981-3987.	21.0	93
30	Nanoparticles for Imunotherapy: Multivalent Porous Silicon Nanoparticles Enhance the Immune Activation Potency of Agonistic CD40 Antibody (Adv. Mater. 29/2012). Advanced Materials, 2012, 24, 4025-4025.	21.0	1
31	Bioresponsive Mesoporous Silica Nanoparticles for Triggered Drug Release. Journal of the American Chemical Society, 2011, 133, 19582-19585.	13.7	335
32	Porous Silicon Nanoparticle Photosensitizers for Singlet Oxygen and Their Phototoxicity against Cancer Cells. ACS Nano, 2011, 5, 3651-3659.	14.6	276
33	Magnetic Luminescent Porous Silicon Microparticles for Localized Delivery of Molecular Drug Payloads. Small, 2010, 6, 2546-2552.	10.0	100
34	Drug delivery: Magnetic Luminescent Porous Silicon Microparticles for Localized Delivery of Molecular Drug Payloads (Small 22/2010). Small, 2010, 6, 2545-2545.	10.0	0
35	Detection of protease activity by FRET using porous silicon as an energy acceptor. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1374-1376.	1.8	7
36	Biodegradable luminescent porous silicon nanoparticles for in vivo applications. Nature Materials, 2009, 8, 331-336.	27.5	1,731