Ge Zhang

List of Publications by Year
in descending order

39 papers	1,769 citations	331670 21 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	2519 citing authors

#	Article	IF	Citations
1	Bioenergetic and Functional Consequences of Bone Marrowâ€“Derived Multipotent Progenitor Cell Transplantation in Hearts With Postinfarction Left Ventricular Remodeling. Circulation, 2007, 115, 1866-1875.	1.6	248
2	Controlled Release of Stromal Cellâ€“Derived Factor-1alphaIn SituIncreases C-kit+Cell Homing to the Infarcted Heart. Tissue Engineering, 2007, 13, 2063-2071.	4.6	187
3	A PEGylated Fibrin Patch for Mesenchymal Stem Cell Delivery. Tissue Engineering, 2006, 12, 9-19.	4.6	175
4	Enhancing Efficacy of Stem Cell Transplantation to the Heart with a PEGylated Fibrin Biomatrix. Tissue Engineering - Part A, 2008, 14, 1025-1036.	3.1	128
5	Synthesis and characterization of pH-sensitive poly(N-2-hydroxyethyl acrylamide)â€“acrylic acid (poly(HEAA/AA)) nanogels with antifouling protection for controlled release. Soft Matter, 2012, 8, 7848.	2.7	81
6	Vascular differentiation of bone marrow stem cells is directed by a tunable three-dimensional matrix. Acta Biomaterialia, 2010, 6, 3395-3403.	8.3	78
7	Responsive systems for cell sheet detachment. Organogenesis, 2013, 9, 93-100.	1.2	78
8	Matrices and scaffolds for drug delivery in vascular tissue engineering. Advanced Drug Delivery Reviews, 2007, 59, 360-373.	13.7	77
9	Cardiac tissue-derived extracellular matrix scaffolds for myocardial repair: advantages and challenges. International Journal of Energy Production and Management, 2019, 6, 185-199.	3.7	75
10	Multimodal release of transforming growth factor-Î²1 and the BB isoform of platelet derived growth factor from PEGylated fibrin gels. Journal of Controlled Release, 2010, 147, 180-186.	9.9	63
11	Tailoring Material Properties of Cardiac Matrix Hydrogels To Induce Endothelial Differentiation of Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2015, 7, 11053-11061.	8.0	60
12	Dual Aptamer-Functionalized in Situ Injectable Fibrin Hydrogel for Promotion of Angiogenesis via Codelivery of Vascular Endothelial Growth Factor and Platelet-Derived Growth Factor-BB. ACS Applied Materials & Interfaces, 2019, 11, 18123-18132.	8.0	54
13	Rapid cell sheet detachment using spin-coated pNIPAAm films retained on surfaces by an aminopropyltriethoxysilane network. Acta Biomaterialia, 2012, 8, 2559-2567.	8.3	53
14	Cardiac differentiation of cardiosphere-derived cells in scaffolds mimicking morphology of the cardiac extracellular matrix. Acta Biomaterialia, 2014, 10, 3449-3462.	8.3	45
15	Biomimicry in biomedical research. Organogenesis, 2012, 8, 101-102.	1.2	40
16	Multiple Physical Bonds to Realize Highly Tough and Self-Adhesive Double-Network Hydrogels. ACS Applied Polymer Materials, 2020, 2, 1031-1042.	4.4	39
17	Antifouling and biodegradable poly(N-hydroxyethyl acrylamide) (polyHEAA)-based nanogels. RSC Advances, 2013, 3, 19991.	3.6	37
18	In Vivo Assessment of Decellularized Porcine Myocardial Slice as an Acellular Cardiac Patch. ACS Applied Materials & Interfaces, 2019, 11, 23893-23900.	8.0	35

#	Article	IF	Citations
19	Microfluidic Magnetic Bead Assay for Cell Detection. Analytical Chemistry, 2016, 88, 711-717.	6.5	30
20	A Thin Layer of Decellularized Porcine Myocardium for Cell Delivery. Scientific Reports, 2018, 8, 16206.	3.3	25
21	Prevascularization of Decellularized Porcine Myocardial Slice for Cardiac Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 2196-2204.	8.0	24
22	Stacked stem cell sheets enhance cell-matrix interactions. Organogenesis, 2014, 10, 170-176.	1.2	16
23	Exogenous Signaling Molecules Released from Aptamer-Functionalized Hydrogels Promote the Survival of Mesenchymal Stem Cell Spheroids. ACS Applied Materials & Interfaces, 2020, 12, 24599-24610.	8.0	15
24	In situ single cell detection via microfluidic magnetic bead assay. PLoS ONE, 2017, 12, e0172697.	2.5	15
25	Mapping Surface Charge Distribution of Single-Cell via Charged Nanoparticle. Cells, 2021, 10, 1519.	4.1	13
26	Current challenges in dedifferentiated fat cells research. Organogenesis, 2016, 12, 119-127.	1.2	11
27	A Microfluidic Sensor for Continuous, in Situ Surface Charge Measurement of Single Cells. ACS Sensors, 2020, 5, 527-534.	7.8	11
28	Biomechanical properties of acellular scar ECM during the acute to chronic stages of myocardial infarction. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104342.	3.1	10
29	A microfluidic device for noninvasive cell electrical stimulation and extracellular field potential analysis. Biomedical Microdevices, 2019, 21, 20.	2.8	9
30	Ultrasensitive detection of small biomolecules using aptamer-based molecular recognition and nanoparticle counting. Biosensors and Bioelectronics, 2022, 203, 114023.	10.1	9
31	Establishing Early Functional Perfusion and Structure in Tissue Engineered Cardiac Constructs. Critical Reviews in Biomedical Engineering, 2015, 43, 455-471.	0.9	6
32	Development and Comparison of Two Immuno-disaggregation Based Bioassays for Cell Secretome Analysis. Theranostics, 2018, 8, 328-340.	10.0	4
33	A microfluidic competitive immuno-aggregation assay for high sensitivity cell secretome detection. Organogenesis, 2018, 14, 67-81.	1.2	4
34	Enabling single cell electrical stimulation and response recording via a microfluidic platform. Biomicrofluidics, 2019, 13, 064126.	2.4	4
35	Preseeding of Mesenchymal Stem Cells Increases Integration of an iPSC-Derived CM Sheet into a Cardiac Matrix. ACS Biomaterials Science and Engineering, 2020, 6, 6808-6818.	5.2	3
36	In vitro comparison of harvesting site effects on cardiac extracellular matrix hydrogels. Journal of Biomedical Materials Research - Part A, 2021, 109, 1922-1930.	4.0	3

#	Article	IF	Citations
37	Iris stromal cell nuclei deform to more elongated shapes during pharmacologically-induced miosis and mydriasis. Experimental Eye Research, 2021, 202, 108373.	2.6	2
38	Tissue Engineering in Drug Delivery. , 2012, , 533-568.		1
39	A microfluidic sensor for single cell detection in a continuous flow. , 2017, , .		1