

Yanan Du

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,519
citations

236925

25
h-index

214800

47
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69
all docs

69
docs citations

69
times ranked

3863
citing authors

#	ARTICLE	IF	CITATIONS
1	Key considerations on the development of biodegradable biomaterials for clinical translation of medical devices: With cartilage repair products as an example. <i>Bioactive Materials</i> , 2022, 9, 332-342.	15.6	27
2	A low dose cell therapy system for treating osteoarthritis: In vivo study and in vitro mechanistic investigations. <i>Bioactive Materials</i> , 2022, 7, 478-490.	15.6	23
3	Mechanical communication in fibrosis progression. <i>Trends in Cell Biology</i> , 2022, 32, 70-90.	7.9	63
4	KRAS(G12D) can be targeted by potent inhibitors via formation of salt bridge. <i>Cell Discovery</i> , 2022, 8, 5.	6.7	52
5	State of the art in flexible SERS sensors toward label-free and onsite detection: from design to applications. <i>Nano Research</i> , 2022, 15, 4374-4394.	10.4	42
6	Engineered meatballs via scalable skeletal muscle cell expansion and modular micro-tissue assembly using porous gelatin micro-carriers. <i>Biomaterials</i> , 2022, 287, 121615.	11.4	26
7	3D biomaterial P scaffolds carrying umbilical cord mesenchymal stem cells improve biointegration of keratoprosthesis. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 055004.	3.3	1
8	Comparison of Chondrocytes in Knee Osteoarthritis and Regulation by Scaffold Pore Size and Stiffness. <i>Tissue Engineering - Part A</i> , 2021, 27, 223-236.	3.1	8
9	TGase-mediated cell membrane modification and targeted cell delivery to inflammatory endothelium. <i>Biomaterials</i> , 2021, 269, 120276.	11.4	8
10	Efficient endothelial and smooth muscle cell differentiation from human pluripotent stem cells through a simplified insulin-free culture system. <i>Biomaterials</i> , 2021, 271, 120713.	11.4	11
11	Asporin inhibits collagen matrix-mediated intercellular mechanocommunications between fibroblasts during keloid progression. <i>FASEB Journal</i> , 2021, 35, e21705.	0.5	12
12	Exendin-4 gene modification and micro scaffold encapsulation promote self-persistence and antidiabetic activity of MSCs. <i>Science Advances</i> , 2021, 7, .	10.3	16
13	Targeted cell therapy for partial-thickness cartilage defects using membrane modified mesenchymal stem cells by transglutaminase 2. <i>Biomaterials</i> , 2021, 275, 120994.	11.4	14
14	Collagen crosslinking: effect on structure, mechanics and fibrosis progression. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 062005.	3.3	22
15	Synthetic liver fibrotic niche extracts achieve in vitro hepatoblasts phenotype enhancement and expansion. <i>IScience</i> , 2021, 24, 103303.	4.1	1
16	Large-Scale Expansion of Umbilical Cord Mesenchymal Stem Cells with Microcarrier Tablets in Bioreactor. <i>Methods in Molecular Biology</i> , 2021, , 113.	0.9	1
17	Characteristics of amino acid substitutions within the ε-determinant region of hepatitis B virus in chronically infected patients with coexisting HBsAg and anti-HBs. <i>Clinics and Research in Hepatology and Gastroenterology</i> , 2020, 44, 923-931.	1.5	5
18	<p>Construction of Microunits by Adipose-Derived Mesenchymal Stem Cells Laden with Porous Microcryogels for Repairing an Acute Achilles Tendon Rupture in a Rat Model</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 7155-7171.	6.7	12

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19	Engineering 3D functional tissue constructs using self-assembling cell-laden microniches. <i>Acta Biomaterialia</i> , 2020, 114, 170-182.	8.3	27
20	Enhanced Microtissue Assembly in 3D-Printed Template Scaffold (3D-MAPS) for Large Tissue Defect Repair. <i>Advanced Healthcare Materials</i> , 2020, 9, 2000531.	7.6	7
21	Matrix-transmitted paratenile signaling enables myofibroblast fibroblast cross talk in fibrosis expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10832-10838.	7.1	48
22	Intra-articular Injection of Cell-laden 3D Microcryogels Empower Low-dose Cell Therapy for Osteoarthritis in a Rat Model. <i>Cell Transplantation</i> , 2020, 29, 096368972093214.	2.5	18
23	Dispersible and Dissolvable Porous Microcarrier Tablets Enable Efficient Large-Scale Human Mesenchymal Stem Cell Expansion. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 263-275.	2.1	42
24	Enhanced single-cell encapsulation in microfluidic devices: From droplet generation to single-cell analysis. <i>Biomicrofluidics</i> , 2020, 14, 061508.	2.4	28
25	Consistent apparent Young's modulus of human embryonic stem cells and derived cell types stabilized by substrate stiffness regulation promotes lineage specificity maintenance. <i>Cell Regeneration</i> , 2020, 9, 15.	2.6	2
26	High throughput scaffold-based 3D micro-tumor array for efficient drug screening and chemosensitivity testing. <i>Biomaterials</i> , 2019, 198, 167-179.	11.4	50
27	Cryoprotectant enables structural control of porous scaffolds for exploration of cellular mechano-responsiveness in 3D. <i>Nature Communications</i> , 2019, 10, 3491.	12.8	117
28	Mechanical microenvironment as a key cellular regulator in the liver. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 289-298.	3.4	10
29	Managing keloid scars: From radiation therapy to actual and potential drug deliveries. <i>International Wound Journal</i> , 2019, 16, 852-859.	2.9	40
30	Association of IFNL3 rs12979860 polymorphism with HCV-related hepatocellular carcinoma susceptibility in a Chinese population. <i>Clinical and Experimental Gastroenterology</i> , 2019, Volume 12, 433-439.	2.3	3
31	CD90 ^{low} MSCs modulate intratumoral immunity to confer antitumor activity in a mouse model of ovarian cancer. <i>Oncotarget</i> , 2019, 10, 4479-4491.	1.8	10
32	Evaluation of intervertebral disc regeneration with injection of mesenchymal stem cells encapsulated in PEGDA-microcryogel delivery system using quantitative T2 mapping: a study in canines. <i>American Journal of Translational Research (discontinued)</i> , 2019, 11, 2028-2041.	0.0	9
33	Physical Properties of Implanted Porous Bioscaffolds Regulate Skin Repair: Focusing on Mechanical and Structural Features. <i>Advanced Healthcare Materials</i> , 2018, 7, e1700894.	7.6	18
34	A phosphatidylinositol 4,5-bisphosphate redistribution-based sensing mechanism initiates a phagocytosis programming. <i>Nature Communications</i> , 2018, 9, 4259.	12.8	42
35	Monolayer culture of intestinal epithelium sustains Lgr5 ⁺ intestinal stem cells. <i>Cell Discovery</i> , 2018, 4, 32.	6.7	37
36	Profile of drug resistance mutations in nucleos(t)ide analogue-experienced chronic hepatitis B patients in Tianjin, China. <i>International Journal of Antimicrobial Agents</i> , 2018, 52, 735-736.	2.5	0

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37	Preconditioning of mesenchymal stromal cells toward nucleus pulposus-like cells by microcryogels-based 3D cell culture and syringe-based pressure loading system. , 2017, 105, 507-520.		17
38	Stiffnessâ€Controlled Thermoresponsive Hydrogels for Cell Harvesting with Sustained Mechanical Memory. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601152.	7.6	22
39	Biomechanically primed liver microtumor array as a high-throughput mechanopharmacological screening platform for stroma-reprogrammed combinatorial therapy. <i>Biomaterials</i> , 2017, 124, 12-24.	11.4	25
40	Pathology-targeted cell delivery via injectable micro-scaffold capsule mediated by endogenous TGase. <i>Biomaterials</i> , 2017, 126, 1-9.	11.4	19
41	Mechanically and Electrically Enhanced CNTâ€Collagen Hydrogels As Potential Scaffolds for Engineered Cardiac Constructs. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3017-3021.	5.2	97
42	Keloid progression: a stiffness gap hypothesis. <i>International Wound Journal</i> , 2017, 14, 764-771.	2.9	30
43	Preferential sensing and response to microenvironment stiffness of human dermal fibroblast cultured on protein micropatterns fabricated by 3D multiphoton biofabrication. <i>Scientific Reports</i> , 2017, 7, 12402.	3.3	10
44	3D Microtissues for Injectable Regenerative Therapy and High-throughput Drug Screening. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
45	Mechanotransduction-modulated fibrotic microniches reveal the contribution of angiogenesis in liver fibrosis. <i>Nature Materials</i> , 2017, 16, 1252-1261.	27.5	132
46	Optimizing mesoderm progenitor selection and three-dimensional microniche culture allows highly efficient endothelial differentiation and ischemic tissue repair from human pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2017, 8, 6.	5.5	19
47	Regeneration of hair and other skin appendages: A microenvironmentâ€centric view. <i>Wound Repair and Regeneration</i> , 2016, 24, 759-766.	3.0	12
48	Multiphoton photochemical crosslinking-based fabrication of protein micropatterns with controllable mechanical properties for single cell traction force measurements. <i>Scientific Reports</i> , 2016, 6, 20063.	3.3	26
49	Physically entrapped gelatin in polyethylene glycol scaffolds for three-dimensional chondrocyte culture. <i>Journal of Bioactive and Compatible Polymers</i> , 2016, 31, 513-530.	2.1	6
50	3D-engineering of Cellularized Conduits for Peripheral Nerve Regeneration. <i>Scientific Reports</i> , 2016, 6, 32184.	3.3	110
51	Substrate stiffness orchestrates epithelial cellular heterogeneity with controlled proliferative pattern via E-cadherin/Î2-catenin mechanotransduction. <i>Acta Biomaterialia</i> , 2016, 41, 169-180.	8.3	19
52	Functional Nanoparticles Activate a Decellularized Liver Scaffold for Blood Detoxification. <i>Small</i> , 2016, 12, 2067-2076.	10.0	15
53	Engineering EMT using 3D micro-scaffold to promote hepatic functions for drug hepatotoxicity evaluation. <i>Biomaterials</i> , 2016, 91, 11-22.	11.4	45
54	In vitro cardiomyocyte-driven biogenerator based on aligned piezoelectric nanofibers. <i>Nanoscale</i> , 2016, 8, 7278-7286.	5.6	32

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55	Injectable microcryogels reinforced alginate encapsulation of mesenchymal stromal cells for leak-proof delivery and alleviation of canine disc degeneration. <i>Biomaterials</i> , 2015, 59, 53-65.	11.4	91
56	Preformed gelatin microcryogels as injectable cell carriers for enhanced skin wound healing. <i>Acta Biomaterialia</i> , 2015, 25, 291-303.	8.3	92
57	Nanostructural morphology master-regulated the cell capture efficiency of multivalent aptamers. <i>RSC Advances</i> , 2015, 5, 39791-39798.	3.6	3
58	Direct intercellular communications dominate the interaction between adipose-derived MSCs and myofibroblasts against cardiac fibrosis. <i>Protein and Cell</i> , 2015, 6, 735-745.	11.0	22
59	Discovery of the migrasome, an organelle mediating release of cytoplasmic contents during cell migration. <i>Cell Research</i> , 2015, 25, 24-38.	12.0	307
60	Stem Cells: Hepatic Differentiation of Human Embryonic Stem Cells as Microscaled Multilayered Colonies Leading to Enhanced Homogeneity and Maturation (<i>Small</i> 21/2014). <i>Small</i> , 2014, 10, 4310-4310.	10.0	18
61	Primed 3D injectable microniches enabling low-dosage cell therapy for critical limb ischemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13511-13516.	7.1	127
62	Microengineered <i>in vitro</i> model of cardiac fibrosis through modulating myofibroblast mechanotransduction. <i>Biofabrication</i> , 2014, 6, 045009.	7.1	47
63	Engineering cell alignment <i>in vitro</i> . <i>Biotechnology Advances</i> , 2014, 32, 347-365.	11.7	220
64	Microcryogels as injectable 3-D cellular microniches for site-directed and augmented cell delivery. <i>Acta Biomaterialia</i> , 2014, 10, 1864-1875.	8.3	62
65	Dew inspired breathing-based detection of genetic point mutation visualized by naked eye. <i>Scientific Reports</i> , 2014, 4, 6300.	3.3	11
66	Nanotechnology for Tissue Engineering Applications. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-2.	2.7	24
67	Stem Cells: Patterned Differentiation of Individual Embryoid Bodies in Spatially Organized 3D Hybrid Microgels (<i>Adv. Mater.</i> 46/2010). <i>Advanced Materials</i> , 2010, 22, 5220-5220.	21.0	0