Mengfei Yu

List of Publications by Year
in descending order

49 papers	1,193 citations	394421 19 h-index	395702 33 g-index
49 all docs	49 docs citations	49 times ranked	1715 citing authors

#	Article	IF	Citations
1	Complexation-induced resolution enhancement of 3D-printed hydrogel constructs. Nature Communications, 2020, 11, 1267.	12.8	158
2	Controlled Release of Naringin in Metal-Organic Framework-Loaded Mineralized Collagen Coating to Simultaneously Enhance Osseointegration and Antibacterial Activity. ACS Applied Materials & Interfaces, 2017, 9, 19698-19705.	8.0	97
3	Light-induced cell detachment for cell sheet technology. Biomaterials, 2013, 34, 11-18.	11.4	89
4	Cranial Suture Regeneration Mitigates Skull and Neurocognitive Defects in Craniosynostosis. Cell, 2021, 184, 243-256.e18.	28.9	88
5	Bone marrow mesenchymal stem cells promote head and neck cancer progression through Periostinâ€mediated phosphoinositide 3â€kinase/<scp>Akt</scp>/mammalian target of rapamycin. Cancer Science, 2018, 109, 688-698.	3.9	51
6	Surface hydroxyl groups direct cellular response on amorphous and anatase TiO 2 nanodots. Colloids and Surfaces B: Biointerfaces, 2014, 123, 68-74.	5.0	48
7	4D Printing of Multiâ€Responsive Membrane for Accelerated In Vivo Bone Healing Via Remote Regulation of Stem Cell Fate. Advanced Functional Materials, 2021, 31, 2103920.	14.9	48
8	Whole body vibration improves osseointegration by up-regulating osteoblastic activity but down-regulating osteoblast-mediated osteoclastogenesis via ERK1/2 pathway. Bone, 2015, 71, 17-24.	2.9	44
9	Light-Induced Cell Alignment and Harvest for Anisotropic Cell Sheet Technology. ACS Applied Materials & Interfaces, 2017, 9, 36513-36524.	8.0	43
10	Surface hydroxyl groups regulate the osteogenic differentiation of mesenchymal stem cells on titanium and tantalum metals. Journal of Materials Chemistry B, 2017, 5, 3955-3963.	5.8	38
11	Biofabrication of aligned structures that guide cell orientation and applications in tissue engineering. Bio-Design and Manufacturing, 2021, 4, 258-277.	7.7	32
12	Preparation and antibiotic drug release of mineralized collagen coatings on titanium. Journal of Materials Science: Materials in Medicine, 2012, 23, 2413-2423.	3.6	31
13	The comparison genomics analysis with glioblastoma multiforme (GBM) cells under 3D and 2D cell culture conditions. Colloids and Surfaces B: Biointerfaces, 2018, 172, 665-673.	5.0	27
14	3D bioprinted hyaluronic acid-based cell-laden scaffold for brain microenvironment simulation. Bio-Design and Manufacturing, 2020, 3, 164-174.	7.7	27
15	Periosteal Tissue Engineering: Current Developments and Perspectives. Advanced Healthcare Materials, 2021, 10, e2100215.	7.6	27
16	Chiral geometry regulates stem cell fate and activity. Biomaterials, 2019, 222, 119456.	11.4	26
17	Controlled Release of Naringin in GelMA-Incorporated Rutile Nanorod Films to Regulate Osteogenic Differentiation of Mesenchymal Stem Cells. ACS Omega, 2019, 4, 19350-19357.	3.5	23
18	Incorporation of chitosan nanospheres into thin mineralized collagen coatings for improving the antibacterial effect. Colloids and Surfaces B: Biointerfaces, 2013, 111, 536-541.	5.0	20

#	Article	IF	Citations
19	Surface Atomic Structure Directs the Fate of Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 15274-15285.	8.0	20
20	3D Cell Cultureâ€"Can It Be As Popular as 2D Cell Culture?. Advanced NanoBiomed Research, 2021, 1, 2000066.	3.6	20
21	Directed Differentiation of Human Embryonic Stem Cells to Neural Crest Stem Cells, Functional Peripheral Neurons, and Corneal Keratocytes. Biotechnology Journal, 2017, 12, 1700067.	3.5	18
22	Surface Modification by Divalent Main-Group-Elemental Ions for Improved Bone Remodeling To Instruct Implant Biofabrication. ACS Biomaterials Science and Engineering, 2019, 5, 3311-3324.	5.2	15
23	KLF2+ stemness maintains human mesenchymal stem cells in bone regeneration. Stem Cells, 2020, 38, 395-409.	3.2	15
24	Improved rhBMP-2 function on MBG incorporated TiO 2 nanorod films. Colloids and Surfaces B: Biointerfaces, 2017, 150, 153-158.	5.0	14
25	Enhanced Osteointegration of Hierarchical Structured 3D-Printed Titanium Implants. ACS Applied Bio Materials, 2018, 1, 90-99.	4.6	13
26	Vascularizing the brain inÂvitro. IScience, 2022, 25, 104110.	4.1	13
27	Enhanced osteogenesis of quasi-three-dimensional hierarchical topography. Journal of Nanobiotechnology, 2019, 17, 102.	9.1	12
28	Modulation of protein behavior through light responses of TiO2 nanodots films. Scientific Reports, 2015, 5, 13354.	3.3	11
29	Influence of integration of TiO2 nanorods into its nanodot films on pre-osteoblast cell responses. Colloids and Surfaces B: Biointerfaces, 2015, 126, 387-393.	5.0	11
30	Osteogenesisâ€Inducing Chemical Cues Enhance the Mechanosensitivity of Human Mesenchymal Stem Cells for Osteogenic Differentiation on a Microtopographically Patterned Surface. Advanced Science, 2022, 9, e2200053.	11.2	11
31	Engineering prevascularized composite cell sheet by light-induced cell sheet technology. RSC Advances, 2017, 7, 32468-32477.	3.6	9
32	Chinese Minority Perceives the Doctor-Patient Relationship Differently: A Cultural and Economic Interpretation. Frontiers in Public Health, 2019, 7, 330.	2.7	9
33	Application of WeChat-based flipped classroom on root canal filling teaching in a preclinical endodontic course. BMC Medical Education, 2022, 22, 138.	2.4	9
34	A hierarchical vascularized engineered bone inspired by intramembranous ossification for mandibular regeneration. International Journal of Oral Science, 2022, 14, .	8.6	9
35	Changes in the surface topography and element proportion of clinically failed SLA implants after in vitro debridement by different methods. Clinical Oral Implants Research, 2021, 32, 263-273.	4.5	8
36	Biodegradable intramedullary nail (BIN) with high-strength bioceramics for bone fracture. Journal of Materials Chemistry B, 2021, 9, 969-982.	5.8	7

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37	Changes in bone graft height and influencing factors after sinus floor augmentation by using the lateral window approach: A clinical retrospective study of 1 to 2 years. Journal of Prosthetic Dentistry, 2021, , .	2.8	7
38	Mesenchymal stem cells in response to exposed rod-heights of TiO2 nanorod films. RSC Advances, 2016, 6, 67778-67784.	3.6	6
39	Î²-Estradiol antagonizes the inhibitory effects of caffeine in BMMSCs via the ERÎ²-mediated cAMP-dependent PKA pathway. Toxicology, 2018, 394, 1-10.	4.2	5
40	Ultraviolet Radiant Energy-Dependent Functionalization Regulates Cellular Behavior on Titanium Dioxide Nanodots. ACS Applied Materials & Interfaces, 2020, 12, 31793-31803.	8.0	5
41	The effect of surface immobilized NBD peptide on osteoclastogenesis of rough titanium plates in vitro and osseointegration of rough titanium implants in ovariectomized rats in vivo. RSC Advances, 2018, 8, 22853-22865.	3.6	4
42	The osteoinductive effect of nano-nacre particles on MC-3T3 E1 preosteoblast through controlled release of water soluble matrix and calciumions. Dental Materials Journal, 2019, 38, 981-986.	1.8	4
43	Construction and validity of a midsagittal plane based on the symmetry of a 3-dimensional model of the relevant cranial base. American Journal of Orthodontics and Dentofacial Orthopedics, 2021, 159, e49-e58.	1.7	4
44	Iroquois Homeobox 5 Negatively Regulated by miRNA-147 Promotes the Proliferation, Metastasis, and Invasion by Oral Squamous Cell Carcinoma. Journal of Biomedical Nanotechnology, 2021, 17, 1098-1108.	1.1	4
45	Skull Base Sphenoid Bone: A Potential Route of Brain Abscesses Induced by Odontogenic Infection. Journal of Craniofacial Surgery, 2021, 32, e32-e34.	0.7	4
46	Accelerated Neurite Outgrowth and Neurogenesis of PC12 Cells on an Fe-doped TiO₂ Nanorod Film Triggered by Visible Light. ACS Biomaterials Science and Engineering, 2021, 7, 577-585.	5.2	3
47	The association between low birth weight and dental caries among 11-to-13-year-old school age children in Ningbo, China. BMC Pediatrics, 2021, 21, 491.	1.7	3
48	Endoscope-controlled maxillary sinus floor elevation: a review of the literature. British Journal of Oral and Maxillofacial Surgery, 2022, 60, 113-119.	0.8	2
49	ALK5 transfection of bone marrow mesenchymal stem cells to repair osteoarthritis of knee joint. Bio-Design and Manufacturing, 2018, 1, 135-145.	7.7	1