Yon Jin Chuah

List of Publications by Year in Descending Order

37 papers	1,202 citations	20 h-index	34 g-index
40 ext. papers	1,447 ext. citations	6.9 avg, IF	4.65 L-index

#	Paper	IF	Citations
37	Development of annulus fibrosus tissue construct with hydrogel coils containing pre-conditioned mesenchymal stem cell. *Journal of Materials Science and Technology*, **2021**, 63, 27-34	9.1	2
36	Surface Creasing-Induced Micropatterned GelMA Using Heating-Hydration Fabrication for Effective Vascularization. *Tissue Engineering and Regenerative Medicine*, **2021**, 18, 759-773	4.5	0
35	Scaffold-Free tissue engineering with aligned bone marrow stromal cell sheets to recapitulate the microstructural and biochemical composition of annulus fibrosus. *Acta Biomaterialia*, **2020**, 107, 129-137	10.8	8
34	Decellularized tissue engineered hyaline cartilage graft for articular cartilage repair. *Biomaterials*, **2020**, 235, 119821	15.6	50
33	Surface modifications to polydimethylsiloxane substrate for stabilizing prolonged bone marrow stromal cell culture. *Colloids and Surfaces B: Biointerfaces*, **2020**, 191, 110995	6	3
32	Full-Scale Osteochondral Regeneration by Sole Graft of Tissue-Engineered Hyaline Cartilage without Co-Engraftment of Subchondral Bone Substitute. *Advanced Healthcare Materials*, **2020**, 9, e1901304	10.1	6
31	Engineering a multiphasic, integrated graft with a biologically developed cartilage-bone interface for osteochondral defect repair. *Journal of Materials Chemistry B*, **2019**, 7, 6515-6525	7.3	5
30	Albumin conjugates and assemblies as versatile bio-functional additives and carriers for biomedical applications. *Journal of Materials Chemistry B*, **2019**, 7, 357-367	7.3	36
29	Co-culture of human umbilical vein endothelial cells and human bone marrow stromal cells into a micro-cavitary gelatin-methacrylate hydrogel system to enhance angiogenesis. *Materials Science and Engineering C*, **2019**, 102, 906-916	8.3	18
28	Bioadhesives for internal medical applications: A review. *Acta Biomaterialia*, **2018**, 74, 1-16	10.8	83
27	Multidrug-eluting bi-layered microparticle-mesh scaffolds for musculoskeletal tissue regeneration. *Journal of Materials Chemistry B*, **2018**, 6, 3340-3347	7.3	4
26	Respective Effects of Gelatin-Coated Polydimethylsiloxane (PDMS) Substrates on Self-renewal and Cardiac Differentiation of Induced Pluripotent Stem Cells (iPSCs). *ACS Biomaterials Science and Engineering*, **2018**, 4, 4321-4330	5.5	10
25	Hydrogel based cartilaginous tissue regeneration: recent insights and technologies. *Biomaterials Science*, **2017**, 5, 613-631	7.4	70
24	Optimization of a polydopamine (PD)-based coating method and polydimethylsiloxane (PDMS) substrates for improved mouse embryonic stem cell (ESC) pluripotency maintenance and cardiac differentiation. *Biomaterials Science*, **2017**, 5, 1156-1173	7.4	21
23	Sustained releasing sponge-like 3D scaffolds for bone tissue engineering applications. *Biomedical Materials (Bristol)*, **2017**, 13, 015019	3.5	7
22	Yolk shell nanocomposite particles as bioactive bone fillers and growth factor carriers. *Nanoscale*, **2017**, 9, 14520-14532	7.7	4
21	Combined effects of multi-scale topographical cues on stable cell sheet formation and differentiation of mesenchymal stem cells. *Biomaterials Science*, **2017**, 5, 2056-2067	7.4	11

20	Noninvasive Monitoring of Three-Dimensional Chondrogenic Constructs Using Molecular Beacon Nanosensors. *Tissue Engineering - Part C: Methods*, **2017**, 23, 12-20	2.9	7
19	A concentration gradient generator on a paper-based microfluidic chip coupled with cell culture microarray for high-throughput drug screening. *Biomedical Microdevices*, **2016**, 18, 21	3.7	59
18	The effects of gelatin-dopamine coating on polydimethylsiloxane substrates on pluripotency maintenance and myocardial differentiation of cultured mouse embryonic stem cells. *Journal of Materials Chemistry B*, **2016**, 4, 7961-7973	7.3	16
17	Long-Term Tracking Mesenchymal Stem Cell Differentiation with Photostable Fluorescent Nanoparticles. *ACS Applied Materials & Interfaces*, **2016**, 8, 11925-33	9.5	20
16	Bioactive Hydrogels and Their Applications in Regenerative Medicine **2016**, 57-74		1
15	Microfluidic Assay To Study the Combinatorial Impact of Substrate Properties on Mesenchymal Stem Cell Migration. *ACS Applied Materials & Interfaces*, **2015**, 7, 17095-103	9.5	22
14	Flexible PEGDA-based microneedle patches with detachable PVP□D arrowheads for transdermal drug delivery. *RSC Advances*, **2015**, 5, 75204-75209	3.7	32
13	The effects of poly(dimethylsiloxane) surface silanization on the mesenchymal stem cell fate. *Biomaterials Science*, **2015**, 3, 383-90	7.4	65
12	Three-dimensional development of tensile pre-strained annulus fibrosus cells for tissue regeneration: an in-vitro study. *Experimental Cell Research*, **2015**, 331, 176-182	4.2	6
11	A Nanoparticle-based Sensor Platform for Cell Tracking and Status/Function Assessment. *Scientific Reports*, **2015**, 5, 14768	4.9	25
10	Combinatorial effect of substratum properties on mesenchymal stem cell sheet engineering and subsequent multi-lineage differentiation. *Acta Biomaterialia*, **2015**, 23, 52-62	10.8	39
9	Simple surface engineering of polydimethylsiloxane with polydopamine for stabilized mesenchymal stem cell adhesion and multipotency. *Scientific Reports*, **2015**, 5, 18162	4.9	135
8	Protein covalently conjugated SU-8 surface for the enhancement of mesenchymal stem cell adhesion and proliferation. *Langmuir*, **2014**, 30, 3110-7	4	21
7	Drug-eluting microneedles for self-administered treatment of keloids **2014**, 02, 144-152		17
6	A microfluidic co-culture system to monitor tumor-stromal interactions on a chip. *Biomicrofluidics*, **2014**, 8, 064118	3.2	32
5	Design and engineering of silk fibroin scaffolds with biomimetic hierarchical structures. *Chemical Communications*, **2013**, 49, 1431-3	5.8	27
4	Surface chemical modification of poly(dimethylsiloxane) for the enhanced adhesion and proliferation of mesenchymal stem cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 9777-84	9.5	138
3	Apelin inhibits adipogenesis and lipolysis through distinct molecular pathways. *Molecular and Cellular Endocrinology*, **2012**, 362, 227-41	4.4	71

2	Vascularization and morphological changes of the endplate after axial compression and distraction of the intervertebral disc. *Spine*, **2011**, 36, 505-11	3.3	39
1	Ultrasmall natural peptides self-assemble to strong temperature-resistant helical fibers in scaffolds suitable for tissue engineering. *Nano Today*, **2011**, 6, 232-239	17.9	92