

# Yon Jin Chuah

## List of Publications by Citations

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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	Surface chemical modification of poly(dimethylsiloxane) for the enhanced adhesion and proliferation of mesenchymal stem cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9777-84	9.5	138
36	Simple surface engineering of polydimethylsiloxane with polydopamine for stabilized mesenchymal stem cell adhesion and multipotency. <i>Scientific Reports</i> , <b>2015</b> , 5, 18162	4.9	135
35	Ultrasmall natural peptides self-assemble to strong temperature-resistant helical fibers in scaffolds suitable for tissue engineering. <i>Nano Today</i> , <b>2011</b> , 6, 232-239	17.9	92
34	Bioadhesives for internal medical applications: A review. <i>Acta Biomaterialia</i> , <b>2018</b> , 74, 1-16	10.8	83
33	Apelin inhibits adipogenesis and lipolysis through distinct molecular pathways. <i>Molecular and Cellular Endocrinology</i> , <b>2012</b> , 362, 227-41	4.4	71
32	Hydrogel based cartilaginous tissue regeneration: recent insights and technologies. <i>Biomaterials Science</i> , <b>2017</b> , 5, 613-631	7.4	70
31	The effects of poly(dimethylsiloxane) surface silanization on the mesenchymal stem cell fate. <i>Biomaterials Science</i> , <b>2015</b> , 3, 383-90	7.4	65
30	A concentration gradient generator on a paper-based microfluidic chip coupled with cell culture microarray for high-throughput drug screening. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 21	3.7	59
29	Decellularized tissue engineered hyaline cartilage graft for articular cartilage repair. <i>Biomaterials</i> , <b>2020</b> , 235, 119821	15.6	50
28	Combinatorial effect of substratum properties on mesenchymal stem cell sheet engineering and subsequent multi-lineage differentiation. <i>Acta Biomaterialia</i> , <b>2015</b> , 23, 52-62	10.8	39
27	Vascularization and morphological changes of the endplate after axial compression and distraction of the intervertebral disc. <i>Spine</i> , <b>2011</b> , 36, 505-11	3.3	39
26	Albumin conjugates and assemblies as versatile bio-functional additives and carriers for biomedical applications. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 357-367	7.3	36
25	Flexible PEGDA-based microneedle patches with detachable PVP/D arrowheads for transdermal drug delivery. <i>RSC Advances</i> , <b>2015</b> , 5, 75204-75209	3.7	32
24	A microfluidic co-culture system to monitor tumor-stromal interactions on a chip. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 064118	3.2	32
23	Design and engineering of silk fibroin scaffolds with biomimetic hierarchical structures. <i>Chemical Communications</i> , <b>2013</b> , 49, 1431-3	5.8	27
22	A Nanoparticle-based Sensor Platform for Cell Tracking and Status/Function Assessment. <i>Scientific Reports</i> , <b>2015</b> , 5, 14768	4.9	25
21	Microfluidic Assay To Study the Combinatorial Impact of Substrate Properties on Mesenchymal Stem Cell Migration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17095-103	9.5	22

20	Optimization of a polydopamine (PD)-based coating method and polydimethylsiloxane (PDMS) substrates for improved mouse embryonic stem cell (ESC) pluripotency maintenance and cardiac differentiation. <i>Biomaterials Science</i> , <b>2017</b> , 5, 1156-1173	7.4	21
19	Protein covalently conjugated SU-8 surface for the enhancement of mesenchymal stem cell adhesion and proliferation. <i>Langmuir</i> , <b>2014</b> , 30, 3110-7	4	21
18	Long-Term Tracking Mesenchymal Stem Cell Differentiation with Photostable Fluorescent Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11925-33	9.5	20
17	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. <i>Materials Science and Engineering C</i> , <b>2019</b> , 102, 906-916	8.3	18
16	Drug-eluting microneedles for self-administered treatment of keloids <b>2014</b> , 02, 144-152		17
15	The effects of gelatin-dopamine coating on polydimethylsiloxane substrates on pluripotency maintenance and myocardial differentiation of cultured mouse embryonic stem cells. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7961-7973	7.3	16
14	Combined effects of multi-scale topographical cues on stable cell sheet formation and differentiation of mesenchymal stem cells. <i>Biomaterials Science</i> , <b>2017</b> , 5, 2056-2067	7.4	11
13	Respective Effects of Gelatin-Coated Polydimethylsiloxane (PDMS) Substrates on Self-renewal and Cardiac Differentiation of Induced Pluripotent Stem Cells (iPSCs). <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 4321-4330	5.5	10
12	Scaffold-Free tissue engineering with aligned bone marrow stromal cell sheets to recapitulate the microstructural and biochemical composition of annulus fibrosus. <i>Acta Biomaterialia</i> , <b>2020</b> , 107, 129-137	10.8	8
11	Sustained releasing sponge-like 3D scaffolds for bone tissue engineering applications. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 13, 015019	3.5	7
10	Noninvasive Monitoring of Three-Dimensional Chondrogenic Constructs Using Molecular Beacon Nanosensors. <i>Tissue Engineering - Part C: Methods</i> , <b>2017</b> , 23, 12-20	2.9	7
9	Three-dimensional development of tensile pre-strained annulus fibrosus cells for tissue regeneration: an in-vitro study. <i>Experimental Cell Research</i> , <b>2015</b> , 331, 176-182	4.2	6
8	Full-Scale Osteochondral Regeneration by Sole Graft of Tissue-Engineered Hyaline Cartilage without Co-Engraftment of Subchondral Bone Substitute. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901304	10.1	6
7	Engineering a multiphasic, integrated graft with a biologically developed cartilage-bone interface for osteochondral defect repair. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 6515-6525	7.3	5
6	Multidrug-eluting bi-layered microparticle-mesh scaffolds for musculoskeletal tissue regeneration. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 3340-3347	7.3	4
5	Yolk shell nanocomposite particles as bioactive bone fillers and growth factor carriers. <i>Nanoscale</i> , <b>2017</b> , 9, 14520-14532	7.7	4
4	Surface modifications to polydimethylsiloxane substrate for stabilizing prolonged bone marrow stromal cell culture. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 191, 110995	6	3
3	Development of annulus fibrosus tissue construct with hydrogel coils containing pre-conditioned mesenchymal stem cell. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 63, 27-34	9.1	2

2 Bioactive Hydrogels and Their Applications in Regenerative Medicine **2016**, 57-74 1

1 Surface Creasing-Induced Micropatterned GelMA Using Heating-Hydration Fabrication for Effective Vascularization. *Tissue Engineering and Regenerative Medicine*, **2021**, 18, 759-773 4.5 0