

Chia-Ying Lin

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,888
citations

257450

24
h-index

330143

37
g-index

42
all docs

42
docs citations

42
times ranked

2818
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and mechanical evaluations of a topology optimized titanium interbody fusion cage fabricated by selective laser melting process. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 272-279.	4.0	166
2	The interaction between bone marrow stromal cells and RGD-modified three-dimensional porous polycaprolactone scaffolds. <i>Biomaterials</i> , 2009, 30, 4063-4069.	11.4	157
3	Bone Morphogenetic Proteins and Cancer. <i>Neurosurgery</i> , 2010, 66, 233-246.	1.1	149
4	Prospective identification of tumorigenic osteosarcoma cancer stem cells in OS99 cells based on high aldehyde dehydrogenase activity. <i>International Journal of Cancer</i> , 2011, 128, 294-303.	5.1	104
5	Topology optimization of three dimensional tissue engineering scaffold architectures for prescribed bulk modulus and diffusivity. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 633-644.	3.5	96
6	Developing consistently reproducible intervertebral disc degeneration at rat caudal spine by using needle puncture. <i>Journal of Neurosurgery: Spine</i> , 2009, 10, 522-530.	1.7	92
7	Stress Analysis of the Interface Between Cervical Vertebrae End Plates and the Bryan, Prestige LP, and ProDisc-C Cervical Disc Prostheses. <i>Spine</i> , 2009, 34, 1554-1560.	2.0	90
8	Chemically-Conjugated Bone Morphogenetic Protein-2 on Three-Dimensional Polycaprolactone Scaffolds Stimulates Osteogenic Activity in Bone Marrow Stromal Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 3441-3448.	3.1	87
9	Interbody Fusion Cage Design Using Integrated Global Layout and Local Microstructure Topology Optimization. <i>Spine</i> , 2004, 29, 1747-1754.	2.0	81
10	BMP-2 inhibits the tumorigenicity of cancer stem cells in human osteosarcoma OS99-1 cell line. <i>Cancer Biology and Therapy</i> , 2011, 11, 457-463.	3.4	81
11	Characterization of stem cell attributes in human osteosarcoma cell lines. <i>Cancer Biology and Therapy</i> , 2009, 8, 543-552.	3.4	75
12	Intradiscal injection of simvastatin retards progression of intervertebral disc degeneration induced by stab injury. <i>Arthritis Research and Therapy</i> , 2009, 11, R172.	3.5	62
13	Porous Biodegradable Lumbar Interbody Fusion Cage Design and Fabrication Using Integrated Global-Local Topology Optimization With Laser Sintering. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 101013-8.	1.3	61
14	Functional Bone Engineering Using ex Vivo Gene Therapy and Topology-Optimized, Biodegradable Polymer Composite Scaffolds. <i>Tissue Engineering</i> , 2005, 11, 1589-1598.	4.6	52
15	Analysis of load sharing on uncovertebral and facet joints at the C5-C6 level with implantation of the Bryan, Prestige LP, or ProDisc-C cervical disc prosthesis: an in vivo image-based finite element study. <i>Neurosurgical Focus</i> , 2010, 28, E9.	2.3	50
16	Time course investigation of intervertebral disc degeneration produced by needle-stab injury of the rat caudal spine. <i>Journal of Neurosurgery: Spine</i> , 2011, 15, 404-413.	1.7	44
17	Intradiscal injection of simvastatin results in radiologic, histologic, and genetic evidence of disc regeneration in a rat model of degenerative disc disease. <i>Spine Journal</i> , 2014, 14, 1017-1028.	1.3	43
18	Controlled Release of Simvastatin from In situ Forming Hydrogel Triggers Bone Formation in MC3T3-E1 Cells. <i>AAPS Journal</i> , 2013, 15, 367-376.	4.4	42

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19	A novel electrospun-aligned nanoyarn/three-dimensional porous nanofibrous hybrid scaffold for annulus fibrosus tissue engineering. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 1553-1567.	6.7	42
20	Simvastatin Stimulates Chondrogenic Phenotype of Intervertebral Disc Cells Partially Through BMP-2 Pathway. <i>Spine</i> , 2008, 33, E525-E531.	2.0	41
21	Simvastatin Maintains Osteoblastic Viability While Promoting Differentiation by Partially Regulating the Expressions of Estrogen Receptors β . <i>Journal of Surgical Research</i> , 2012, 174, 278-283.	1.6	37
22	BMP-2 inhibits tumor-initiating ability in human renal cancer stem cells and induces bone formation. <i>Journal of Cancer Research and Clinical Oncology</i> , 2015, 141, 1013-1024.	2.5	37
23	Bone Morphogenetic Proteins and Degenerative Disk Disease. <i>Neurosurgery</i> , 2012, 70, 996-1002.	1.1	34
24	Bone formation induced by BMP-2 in human osteosarcoma cells. <i>International Journal of Oncology</i> , 2013, 43, 1095-1102.	3.3	32
25	BMP-2 inhibits tumor growth of human renal cell carcinoma and induces bone formation. <i>International Journal of Cancer</i> , 2012, 131, 1941-1950.	5.1	26
26	In Vivo Evaluation of Novel PLA/PCL Polymeric Patch in Rats for Potential Spina Bifida Coverage. <i>Journal of Surgical Research</i> , 2019, 242, 62-69.	1.6	19
27	Microspheres containing decellularized cartilage induce chondrogenesis <i>in vitro</i> and remain functional after incorporation within a poly(ϵ -caprolactone) filament useful for fabricating a 3D scaffold. <i>Biofabrication</i> , 2018, 10, 025007.	7.1	18
28	Using poly(L-lactic acid) and poly(ϵ -caprolactone) blends to fabricate self-expanding, watertight and biodegradable surgical patches for potential fetoscopic myelomeningocele repair. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 295-305.	3.4	17
29	BMP-2 inhibits lung metastasis of osteosarcoma: an early investigation using an orthotopic model. <i>OncoTargets and Therapy</i> , 2018, Volume 11, 7543-7553.	2.0	10
30	Multiple-Exposure Drug Release from Stable Nanodroplets by High-Intensity Focused Ultrasound for a Potential Degenerative Disc Disease Treatment. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 160-169.	1.5	8
31	Biodegradation of poly(L-lactic acid) and poly(μ -caprolactone) patches by human amniotic fluid in an in-vitro simulated fetal environment. <i>Scientific Reports</i> , 2022, 12, 3950.	3.3	7
32	Micro-mechanical properties of different sites on woodpecker's skull. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1483-1493.	1.6	6
33	Engineer a pre-metastatic niched microenvironment to attract breast cancer cells by utilizing a 3D printed polycaprolactone/nano-hydroxyapatite osteogenic scaffold. An in vitro model system for proof of concept. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1604-1614.	3.4	6
34	Novel Process for 3D Printing Decellularized Matrices. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	4
35	Computational Design and Simulation of Tissue Engineering Scaffolds. , 2008, , 113-127.		3
36	Breast Cancer Cells Metastasize to the Tissue-Engineered Premetastatic Niche by Using an Osteoid-Formed Polycaprolactone/Nanohydroxyapatite Scaffold. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-13.	1.3	3

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37	Toxicology and Pharmacokinetics Study of Intradiscal Injection of Simvastatin in Rabbits. <i>Frontiers in Pharmacology</i> , 2021, 12, 582309.	3.5	2
38	Applying exercise-mimetic engineered skeletal muscle model to interrogate the adaptive response of irisin to mechanical force. <i>IScience</i> , 2022, 25, 104135.	4.1	2
39	Dural substitutes for spina bifida repair: past, present, and future. <i>Child's Nervous System</i> , 2022, 38, 873-891.	1.1	2
40	Cancer stem cell markers: what is their diagnostic value?. <i>Expert Opinion on Medical Diagnostics</i> , 2010, 4, 473-481.	1.6	0
41	Biomechanics and Bioengineering of Orthopedic and Cardiovascular Rehabilitation. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-2.	1.9	0
42	The Effect and Possible Mechanism of Intradiscal Injection of Simvastatin in the Treatment of Discogenic Pain in Rats. <i>Frontiers in Neuroscience</i> , 2021, 15, 642436.	2.8	0