

Kai-Chiang Yang

List of Publications by Year in descending order

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84
papers

1,297
citations

361045

20
h-index

433756

31
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85
all docs

85
docs citations

85
times ranked

2148
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the anticoagulant capacity of polyvinyl chloride tubing for cardiopulmonary bypass circuit using aluminum oxide nanoscale coating applied through atomic layer deposition. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 527-534.	1.6	5
2	Improvement of Corrosion Resistance and Biocompatibility of Biodegradable Mg-Ca Alloy by ALD HfZrO ₂ Film. <i>Coatings</i> , 2022, 12, 212.	1.2	1
3	Midterm Results of Fresh-Frozen Osteochondral Allografting for Osteochondral Lesions of the Talus. <i>Foot and Ankle International</i> , 2021, 42, 8-16.	1.1	5
4	Ultrasonography-Guided Minimally Invasive Surgery for Achilles Sleeve Avulsions. <i>Foot and Ankle International</i> , 2021, 42, 544-553.	1.1	7
5	Current treatment concepts for osteochondral lesions of the talus. <i>Tzu Chi Medical Journal</i> , 2021, 33, 243.	0.4	4
6	Infrapatellar Fat Pads-Derived Stem Cell Is a Favorable Cell Source for Articular Cartilage Tissue Engineering: An <i>In Vitro</i> and <i>Ex Vivo</i> Study Based on 3D Organized Self-Assembled Biomimetic Scaffold. <i>Cartilage</i> , 2021, 13, 508S-520S.	1.4	5
7	Silymarin modulates catabolic cytokine expression through Sirt1 and SOX9 in human articular chondrocytes. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 147.	0.9	9
8	Antifibrotic Effect of Bletilla striata Polysaccharide-Resveratrol-Impregnated Dual-Layer Carboxymethyl Cellulose-Based Sponge for The Prevention of Epidural Fibrosis after Laminectomy. <i>Polymers</i> , 2021, 13, 2129.	2.0	9
9	Keratin-Associated Protein Nanoparticles as Hemostatic Agents. <i>ACS Applied Nano Materials</i> , 2021, 4, 12798-12806.	2.4	10
10	Ex Vivo Expanded Circulating Tumor Cells for Clinical Anti-Cancer Drug Prediction in Patients with Head and Neck Cancer. <i>Cancers</i> , 2021, 13, 6076.	1.7	22
11	Glow Discharge Plasma Treatment on Zirconia Surface to Enhance Osteoblastic-Like Cell Differentiation and Antimicrobial Effects. <i>Materials</i> , 2020, 13, 3771.	1.3	4
12	Chitosan-cartilage extracellular matrix hybrid scaffold induces chondrogenic differentiation to adipose-derived stem cells. <i>Regenerative Therapy</i> , 2020, 14, 238-244.	1.4	14
13	Effect of thermal treatments on the structural change and the hemostatic property of hair extracted proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110951.	2.5	8
14	Evaluation of the post-treatment anti-inflammatory capacity of osteoarthritic chondrocytes: An <i>In Vitro</i> study using baicalein. <i>Regenerative Therapy</i> , 2020, 14, 177-183.	1.4	7
15	Unusual neuromuscular presentation of a Wilson's disease patient with one-stage surgical correction treatment: A case report. <i>Journal of Orthopaedic Surgery</i> , 2020, 28, 230949902093405.	0.4	0
16	Effects of scaffold geometry on chondrogenic differentiation of adipose-derived stem cells. <i>Materials Science and Engineering C</i> , 2020, 110, 110733.	3.8	20
17	Er,Cr:YSGG Laser Performance Improves Biological Response on Titanium Surfaces. <i>Materials</i> , 2020, 13, 756.	1.3	18
18	Prevascularization-free Primary Subcutaneous Transplantation of Xenogeneic Islets Coencapsulated With Hepatocyte Growth Factor. <i>Transplantation Direct</i> , 2020, 6, e620.	0.8	5

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19	The Effects of Different Dynamic Culture Systems on Cell Proliferation and Osteogenic Differentiation in Human Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4024.	1.8	27
20	CD24 expression indicates healthier phenotype and less tendency of cellular senescence in human nucleus pulposus cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 3021-3028.	1.9	8
21	Ultrasound-Guided Minimally Invasive Surgical Resection of Retrocalcaneal Bursitis: A Preliminary Comparison With Traditional Open Surgery. <i>Journal of Foot and Ankle Surgery</i> , 2019, 58, 855-860.	0.5	5
22	The chondroprotective effect of diosmin on human articular chondrocytes under oxidative stress. <i>Phytotherapy Research</i> , 2019, 33, 2378-2386.	2.8	13
23	Human Adipose-Derived Stem Cell Secreted Extracellular Matrix Incorporated into Electrospun Poly(Lactic-co-Glycolic Acid) Nanofibrous Dressing for Enhancing Wound Healing. <i>Polymers</i> , 2019, 11, 1609.	2.0	23
24	Effect of hesperidin on anti-inflammation and cellular antioxidant capacity in hydrogen peroxide-stimulated human articular chondrocytes. <i>Process Biochemistry</i> , 2019, 85, 175-184.	1.8	19
25	Improvement in the Biological Properties of Titanium Surfaces with Low-Temperature Plasma. <i>Metals</i> , 2019, 9, 943.	1.0	2
26	Effect of Basic Fibroblast Growth Factor on Xenogeneic Islets in Subcutaneous Transplantationâ€”A Murine Model. <i>Transplantation Proceedings</i> , 2019, 51, 1458-1462.	0.3	4
27	Keratin scaffolds with human adipose stem cells: Physical and biological effects toward wound healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1044-1058.	1.3	26
28	Three-dimensional spherical gelatin bubble-based scaffold improves the myotube formation of H9c2 myoblasts. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1190-1200.	1.7	13
29	The therapeutic effect of aucubin-supplemented hyaluronic acid on interleukin-1beta-stimulated human articular chondrocytes. <i>Phytomedicine</i> , 2019, 53, 1-8.	2.3	18
30	Comparison of Transforming Growth Factor-Beta1 and Lovastatin on Differentiating Mesenchymal Stem Cells toward Nucleus Pulposus-like Phenotype: An In Vitro Cell Culture Study. <i>Asian Spine Journal</i> , 2019, 13, 705-712.	0.8	6
31	Conservative treatment of recurrent symptoms of an incomplete, atypical femoral fracture associated with glucocorticoid, bisphosphonate, and denosumab therapy in a patient with chronic obstructive pulmonary disease. <i>Acta Clinica Belgica</i> , 2019, 74, 370-374.	0.5	4
32	Optimization of puncture injury to rat caudal disc for mimicking early degeneration of intervertebral disc. <i>Journal of Orthopaedic Research</i> , 2018, 36, 202-211.	1.2	26
33	Limitation of the antibiotic-eluting bone graft substitute: An example of gentamycin-impregnated calcium sulfate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 80-87.	1.6	8
34	Synergistic effect of ascorbic acid and hyaluronic acid on the expressions of matrix metalloproteinase-3 and -9 in human chondrocytes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1809-1817.	1.6	8
35	The influence of bubble size on chondrogenic differentiation of adipose-derived stem cells in gelatin microbubble scaffolds. <i>Journal of Materials Chemistry B</i> , 2018, 6, 125-132.	2.9	15
36	The influence of vancomycin on extracellular matrix and pro-inflammatory cytokine expression in human articular chondrocytes. <i>Process Biochemistry</i> , 2018, 65, 178-185.	1.8	4

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37	Low-adhesive ethylene vinyl alcohol-based packaging to xenogeneic islet encapsulation for type 1 diabetes treatment. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2341-2355.	1.7	11
38	Evaluation of adhesion, proliferation, and differentiation of human adipose-derived stem cells on keratin. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	12
39	Intra-articular Injection of platelet-rich fibrin releasates in combination with bone marrow-derived mesenchymal stem cells in the treatment of articular cartilage defects: An <i>in vivo</i> study in rabbits. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1536-1543.	1.6	15
40	Modulation of keratin in adhesion, proliferation, adipogenic, and osteogenic differentiation of porcine adipose-derived stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 180-192.	1.6	25
41	The influence of oxygen concentration on the extracellular matrix production of human nucleus pulposus cells during isolation-expansion process. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1575-1582.	2.1	9
42	Effects of thermosensitive chitosan-gelatin based hydrogel containing glutathione on Cisd2-deficient chondrocytes under oxidative stress. <i>Carbohydrate Polymers</i> , 2017, 173, 17-27.	5.1	17
43	An assessment of femoral rotational alignment of mini-incision total knee arthroplasty: A comparison based on the transepicondylar line from the kneeling view and the intraoperative posterior condylar line. <i>Journal of Orthopaedic Science</i> , 2017, 22, 506-511.	0.5	4
44	Long-Term Oral Toxicity and Anti-osteoporotic Effect of Sintered Dicalcium Pyrophosphate in Rat Model of Postmenopausal Osteoporosis. <i>Journal of Medical and Biological Engineering</i> , 2017, 37, 181-190.	1.0	1
45	Shape memory effect in 3D-printed scaffolds for self-fitting implants. <i>European Polymer Journal</i> , 2017, 93, 222-231.	2.6	91
46	Zwitterionic poly(sulfobetaine methacrylate) hydrogels incorporated with angiogenic peptides promote differentiation of human adipose-derived stem cells. <i>RSC Advances</i> , 2017, 7, 51343-51351.	1.7	11
47	A multiple-funnels cell culture insert for the scale-up production of uniform cell spheroids. <i>Regenerative Therapy</i> , 2017, 7, 52-60.	1.4	4
48	Injectable and biodegradable composite bone filler composed of poly(propylene fumarate) and calcium phosphate ceramic for vertebral augmentation procedure: An <i>in vivo</i> porcine study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2232-2243.	1.6	12
49	Expandable Scaffold Improves Integration of Tissue-Engineered Cartilage: An <i>In Vivo</i> Study in a Rabbit Model. <i>Tissue Engineering - Part A</i> , 2016, 22, 873-884.	1.6	21
50	Tooth Germ-Like Construct Transplantation for Whole-Tooth Regeneration: An <i>In Vivo</i> Study in the Miniature Pig. <i>Artificial Organs</i> , 2016, 40, E39-50.	1.0	14
51	l-Glutathione enhances antioxidant capacity of hyaluronic acid and modulates expression of pro-inflammatory cytokines in human fibroblast-like synoviocytes. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2071-2079.	2.1	17
52	Effects of Activin in Embryoid Bodies Expressing Fibroblast Growth Factor 5. <i>Cellular Reprogramming</i> , 2016, 18, 171-186.	0.5	2
53	Enhancement of biodegradation and osseointegration of poly(ϵ -caprolactone)/calcium phosphate ceramic composite screws for osteofixation using calcium sulfate. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025012.	1.7	4
54	l-Lysine regulates tumor necrosis factor-alpha and matrix metalloproteinase-3 expression in human osteoarthritic chondrocytes. <i>Process Biochemistry</i> , 2016, 51, 904-911.	1.8	7

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55	Hydrophilic/hydrophobic surface of Al ₂ O ₃ thin films grown by thermal and plasma-enhanced atomic layer deposition on plasticized polyvinyl chloride (PVC). <i>Surface and Coatings Technology</i> , 2016, 305, 158-164.	2.2	35
56	A self-reinforcing biodegradable implant made of poly(L-caprolactone)/calcium phosphate ceramic composite for craniomaxillofacial fracture fixation. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2016, 44, 1333-1341.	0.7	5
57	L-glutamine regulates the expression of matrix proteins, pro-inflammatory cytokines and catabolic enzymes in interleukin-1beta-stimulated human chondrocytes. <i>Process Biochemistry</i> , 2016, 51, 414-421.	1.8	5
58	Strontium-impregnated bioabsorbable composite for osteoporotic fracture fixation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3355-3363.	2.1	14
59	Effects of the addition of vancomycin on the physical and handling properties of calcium sulfate bone cement. <i>Process Biochemistry</i> , 2014, 49, 2285-2291.	1.8	16
60	A biomimetic honeycomb-like scaffold prepared by flow-focusing technology for cartilage regeneration. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2338-2348.	1.7	23
61	Fabrication of large perfusable macroporous cell-laden hydrogel scaffolds using microbial transglutaminase. <i>Acta Biomaterialia</i> , 2014, 10, 912-920.	4.1	40
62	Lovastatin prevents discography-associated degeneration and maintains the functional morphology of intervertebral discs. <i>Spine Journal</i> , 2014, 14, 2459-2466.	0.6	22
63	Enhancement of CYP3A4 Activity in Hep G2 Cells by Lentiviral Transfection of Hepatocyte Nuclear Factor-1 Alpha. <i>PLoS ONE</i> , 2014, 9, e94885.	1.1	14
64	Microenvironment-regulated gene expression, morphology, and in vivo performance of mouse pancreatic Î²-cells. <i>Process Biochemistry</i> , 2013, 48, 58-67.	1.8	1
65	Investigating the suspension culture on aggregation and function of mouse pancreatic Î²-cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2273-2282.	2.1	9
66	RADIOLOGICAL ASSESSMENTS OF INJECTED CALCIUM SULFATE BONE CEMENTS IN THE TREATMENT OF DISTAL RADIAL FRACTURE. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2013, 25, 1340006.	0.3	1
67	Electrofusion of Mesenchymal Stem Cells and Islet Cells for Diabetes Therapy: A Rat Model. <i>PLoS ONE</i> , 2013, 8, e64499.	1.1	30
68	Calcium phosphate cement delivering zoledronate decreases bone turnover rate and restores bone architecture in ovariectomized rats. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 035009.	1.7	21
69	In Vitro Studies of Composite Bone Filler Based on Poly(Propylene Fumarate) and Biphasic Tricalcium Phosphate/Hydroxyapatite Ceramic Powder. <i>Artificial Organs</i> , 2012, 36, 418-428.	1.0	19
70	Fibrin glue mixed with platelet-rich fibrin as a scaffold seeded with dental bud cells for tooth regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, 777-785.	1.3	54
71	Cartilage regeneration in SCID mice using a highly organized three-dimensional alginate scaffold. <i>Biomaterials</i> , 2012, 33, 120-127.	5.7	64
72	The prediction of drug metabolism using scaffold-mediated enhancement of the induced cytochrome P450 activities in fibroblasts by hepatic transcriptional regulators. <i>Biomaterials</i> , 2012, 33, 5187-5197.	5.7	15

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73	Sintered dicalcium pyrophosphate decreases bone turnover rate in osteoporotic rat: A study on serum biochemical bone turnover markers. <i>Biomedicine and Aging Pathology</i> , 2011, 1, 46-51.	0.8	5
74	Cell coupling regulates Ins1, Pdx-1 and MafA to promote insulin secretion in mouse pancreatic beta cells. <i>Process Biochemistry</i> , 2011, 46, 1853-1860.	1.8	5
75	Silica-modified Fe-doped calcium sulfide nanoparticles for in vitro and in vivo cancer hyperthermia. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1139-1149.	0.8	16
76	Calcium Phosphate Cement Chamber as an Immunoisolative Device for Bioartificial Pancreas. <i>Pancreas</i> , 2010, 39, 444-451.	0.5	5
77	Intramedullary Cavity as an Implant Site for Bioartificial Pancreas: An In Vivo Study on Diabetic Canine. <i>Transplantation</i> , 2010, 90, 604-611.	0.5	6
78	Comparison of Bioartificial Pancreas Performance in the Bone Marrow Cavity and Intramuscular Space. <i>Archives of Medical Research</i> , 2010, 41, 151-153.	1.5	12
79	GELATIN-CHONDROITIN-HYALURONAN TRI-COPOLYMER SCAFFOLD SEEDED WITH DENTAL BUD CELLS FOR ODONTOGENESIS: AN <i>EX VIVO</i> STUDY ON NUDE MICE. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2010, 22, 535-547.	0.3	2
80	ACUTE AND SUBACUTE ORAL TOXICITY TESTS OF SINTERED DICALCIUM PYROPHOSPHATE ON OVARECTOMIZED RATS FOR OSTEOPOROSIS TREATMENT. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2010, 22, 169-176.	0.3	6
81	Thermosensitive Chitosan-Gelatin-Glycerol Phosphate Hydrogels as a Cell Carrier for Nucleus Pulposus Regeneration: An <i>In Vitro</i> Study. <i>Tissue Engineering - Part A</i> , 2010, 16, 695-703.	1.6	111
82	The in vivo performance of bioartificial pancreas in bone marrow cavity: A case report of a spontaneous diabetic feline. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 362-364.	1.0	3
83	The cytoprotection of chitosan based hydrogels in xenogeneic islet transplantation: An in vivo study in streptozotocin-induced diabetic mouse. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 818-823.	1.0	37
84	Chitosan/gelatin hydrogel as immunoisolative matrix for injectable bioartificial pancreas. <i>Xenotransplantation</i> , 2008, 15, 407-416.	1.6	42