

Zi-Gang Ge

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4886116/publications.pdf>

Version: 2024-02-01

62
papers

3,014
citations

186209

28
h-index

161767

54
g-index

65
all docs

65
docs citations

65
times ranked

5004
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication, Mechanical Properties, and Biocompatibility of Graphene-Reinforced Chitosan Composites. <i>Biomacromolecules</i> , 2010, 11, 2345-2351.	2.6	514
2	Repair of Large Articular Osteochondral Defects Using Hybrid Scaffolds and Bone Marrow-Derived Mesenchymal Stem Cells in a Rabbit Model. <i>Tissue Engineering</i> , 2006, 12, 1539-1551.	4.9	181
3	Hydroxyapatite-chitin materials as potential tissue engineered bone substitutes. <i>Biomaterials</i> , 2004, 25, 1049-1058.	5.7	141
4	Biomaterials and scaffolds for ligament tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 639-652.	2.1	123
5	Efficacy of Bone Marrow-Derived Stem Cells in Strengthening Osteoporotic Bone in a Rabbit Model. <i>Tissue Engineering</i> , 2006, 12, 1753-1761.	4.9	119
6	Loss of viability during freeze-thaw of intact and adherent human embryonic stem cells with conventional slow-cooling protocols is predominantly due to apoptosis rather than cellular necrosis. <i>Journal of Biomedical Science</i> , 2006, 13, 433-445.	2.6	108
7	Modified hyaluronic acid hydrogels with chemical groups that facilitate adhesion to host tissues enhance cartilage regeneration. <i>Bioactive Materials</i> , 2021, 6, 1689-1698.	8.6	107
8	Selection of Cell Source for Ligament Tissue Engineering. <i>Cell Transplantation</i> , 2005, 14, 573-583.	1.2	103
9	Osteoarthritis and therapy. <i>Arthritis and Rheumatism</i> , 2006, 55, 493-500.	6.7	98
10	Cross-talk between TGF-beta/SMAD and integrin signaling pathways in regulating hypertrophy of mesenchymal stem cell chondrogenesis under deferral dynamic compression. <i>Biomaterials</i> , 2015, 38, 72-85.	5.7	96
11	Comparison of osteogenesis of human embryonic stem cells within 2D and 3D culture systems. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2008, 68, 58-67.	0.6	88
12	Modification of sericin-free silk fibers for ligament tissue engineering application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 82B, 129-138.	1.6	85
13	Histological evaluation of osteogenesis of 3D-printed poly-lactic-co-glycolic acid (PLGA) scaffolds in a rabbit model. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 021001.	1.7	85
14	Functional biomaterials for cartilage regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2526-2536.	2.1	79
15	Improved Mesenchymal Stem Cells Attachment and <i>In Vitro</i> Cartilage Tissue Formation on Chitosan-Modified Poly(L-Lactide-co-L-Epsilon-Caprolactone) Scaffold. <i>Tissue Engineering - Part A</i> , 2012, 18, 242-251.	1.6	79
16	Orchestrated biomechanical, structural, and biochemical stimuli for engineering anisotropic meniscus. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	79
17	Manufacture of degradable polymeric scaffolds for bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 022001.	1.7	67
18	The Effects of Bone Marrow-Derived Mesenchymal Stem Cells and Fascia Wrap Application to Anterior Cruciate Ligament Tissue Engineering. <i>Cell Transplantation</i> , 2005, 14, 763-773.	1.2	65

#	ARTICLE	IF	CITATIONS
19	Proliferation and Differentiation of Human Osteoblasts within 3D printed Poly-Lactic-co-Glycolic Acid Scaffolds. <i>Journal of Biomaterials Applications</i> , 2009, 23, 533-547.	1.2	62
20	A Viscoelastic Chitosan-Modified Three-Dimensional Porous Poly(L-Lactide-co- $\hat{\mu}$ -Caprolactone) Scaffold for Cartilage Tissue Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 405-424.	1.9	55
21	High-throughput immunoassay through in-channel microfluidic patterning. <i>Lab on A Chip</i> , 2012, 12, 2487.	3.1	47
22	Developing Fe ₃ O ₄ nanoparticles into an efficient multimodality imaging and therapeutic probe. <i>Nanoscale</i> , 2013, 5, 11954.	2.8	45
23	Cells Behave Distinctly Within Sponges and Hydrogels Due to Differences of Internal Structure. <i>Tissue Engineering - Part A</i> , 2013, 19, 2166-2175.	1.6	37
24	Characterization of knitted polymeric scaffolds for potential use in ligament tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 1179-1192.	1.9	36
25	The influence of scaffold microstructure on chondrogenic differentiation of mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 035011.	1.7	36
26	ORIGINAL ARTICLE: Solubilization of vorinostat by cyclodextrins. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2010, 35, 521-526.	0.7	33
27	Nanosecond Pulsed Electric Fields (nsPEFs) Regulate Phenotypes of Chondrocytes through Wnt/ $\hat{\beta}$ -catenin Signaling Pathway. <i>Scientific Reports</i> , 2014, 4, 5836.	1.6	32
28	Poly (l-lactide-co-caprolactone) scaffolds enhanced with poly ($\hat{\beta}$ -hydroxybutyrate-co- $\hat{\beta}$ -hydroxyvalerate) microspheres for cartilage regeneration. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 025005.	1.7	28
29	TGF- $\hat{\beta}$ 1 affinity peptides incorporated within a chitosan sponge scaffold can significantly enhance cartilage regeneration. <i>Journal of Materials Chemistry B</i> , 2018, 6, 675-687.	2.9	28
30	Key considerations on the development of biodegradable biomaterials for clinical translation of medical devices: With cartilage repair products as an example. <i>Bioactive Materials</i> , 2022, 9, 332-342.	8.6	27
31	Nanosecond pulsed electric fields enhanced chondrogenic potential of mesenchymal stem cells via JNK/CREB-STAT3 signaling pathway. <i>Stem Cell Research and Therapy</i> , 2019, 10, 45.	2.4	26
32	Rational design of electrically conductive biomaterials toward excitable tissues regeneration. <i>Progress in Polymer Science</i> , 2022, 131, 101573.	11.8	21
33	Mechanical dissociation of human embryonic stem cell colonies by manual scraping after collagenase treatment is much more detrimental to cellular viability than is trypsinization with gentle pipetting. <i>Biotechnology and Applied Biochemistry</i> , 2007, 47, 33.	1.4	20
34	Plasma and synovial fluid programmed cell death 5 (PDCD5) levels are inversely associated with TNF- $\hat{\alpha}$ and disease activity in patients with rheumatoid arthritis. <i>Biomarkers</i> , 2013, 18, 155-159.	0.9	20
35	Macroporous interpenetrating network of polyethylene glycol (PEG) and gelatin for cartilage regeneration. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 035014.	1.7	20
36	Diverse effects of pulsed electrical stimulation on cells - with a focus on chondrocytes and cartilage regeneration. , 2019, 38, 79-93.		20

#	ARTICLE	IF	CITATIONS
37	Probing cellâ€‘matrix interactions in RGD-decorated macroporous poly (ethylene glycol) hydrogels for 3D chondrocyte culture. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 035016.	1.7	19
38	Enhancement of the chondrogenic differentiation of mesenchymal stem cells and cartilage repair by ghrelin. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1387-1397.	1.2	18
39	Preconditioning of mesenchymal stromal cells toward nucleus pulposus-like cells by microcryogels-based 3D cell culture and syringe-based pressure loading system. , 2017, 105, 507-520.		17
40	Nanosecond pulsed electric fields enhance mesenchymal stem cells differentiation via DNMT1-regulated OCT4/NANOG gene expression. <i>Stem Cell Research and Therapy</i> , 2020, 11, 308.	2.4	17
41	Effects of fluctuant magnesium concentration on phenotype of the primary chondrocytes. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	2.1	13
42	A Biocompatible Chitosan Composite Containing Phosphotungstic Acid Modified Single-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7126-7129.	0.9	10
43	Optimization and characterization of chemically modified polymer microspheres and their effect on cell behavior. <i>Materials Letters</i> , 2015, 154, 68-72.	1.3	10
44	Perspectives on Animal Models Utilized for the Research and Development of Regenerative Therapies for Articular Cartilage. <i>Current Molecular Biology Reports</i> , 2016, 2, 90-100.	0.8	10
45	Proteomic profile of mouse fibroblasts exposed to pure magnesium extract. <i>Materials Science and Engineering C</i> , 2016, 69, 522-531.	3.8	9
46	Biological effect and molecular mechanism study of biomaterials based on proteomic research. <i>Journal of Materials Science and Technology</i> , 2017, 33, 607-615.	5.6	9
47	Macrophages promote cartilage regeneration in a timeâ€‘and phenotypeâ€‘dependent manner. <i>Journal of Cellular Physiology</i> , 2022, 237, 2258-2270.	2.0	9
48	Characterization of human primary chondrocytes of osteoarthritic cartilage at varying severity. <i>Chinese Medical Journal</i> , 2011, 124, 4245-53.	0.9	9
49	Induced adult stem (IAS) cells and induced transit amplifying progenitor (iTAP) cells-a possible alternative to induced pluripotent stem (iPS) cells?. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 159-162.	1.3	7
50	Nanosecond pulsed electric fields prime mesenchymal stem cells to peptide ghrelin and enhance chondrogenesis and osteochondral defect repair in vivo. <i>Science China Life Sciences</i> , 2022, 65, 927-939.	2.3	7
51	RELATIONSHIP BETWEEN CELL FUNCTION AND INITIAL CELL SEEDING DENSITY OF PRIMARY PORCINE CHONDROCYTES <i>IN VITRO</i>. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2013, 25, 1340001.	0.3	6
52	Physically entrapped gelatin in polyethylene glycol scaffolds for three-dimensional chondrocyte culture. <i>Journal of Bioactive and Compatible Polymers</i> , 2016, 31, 513-530.	0.8	6
53	Multiple nanosecond pulsed electric fields stimulation with conductive poly(<sc>l</sc> â€‘lactic) Tj ETQq1 1 0.784314 rgBT /Overl prolonged in vitro culture. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1136-1148.	1.3	6
54	Cytotoxicity of core-shell polystyrene magnetic beads and related mechanisms. <i>Molecular and Cellular Toxicology</i> , 2012, 8, 217-227.	0.8	5

#	ARTICLE	IF	CITATIONS
55	Biomaterials for Cartilage Regeneration. Journal of the American Academy of Orthopaedic Surgeons, The, 2014, 22, 674-676.	1.1	4
56	Title is missing!. Journal of Medical and Biological Engineering, 2013, 33, 518.	1.0	4
57	Can Upregulation of Pluripotency Genes Enhance Stemness of Mesenchymal Stem Cells?. Stem Cell Reviews and Reports, 2021, 17, 1505-1507.	1.7	3
58	Optimization of dual effects of Mg ²⁺ /Ca alloys on the behavior of chondrocytes and osteoblasts in vitro. Progress in Natural Science: Materials International, 2014, 24, 433-440.	1.8	2
59	Title is missing!. Journal of Medical and Biological Engineering, 2014, 34, 130.	1.0	2
60	Title is missing!. Journal of Medical and Biological Engineering, 2013, 33, 449.	1.0	1
61	A simple magnetic force-based cell patterning method using soft lithography. Science China Life Sciences, 2015, 58, 400-402.	2.3	0
62	Protocol of Chondrogenesis of BMSC to Chondrocyte Using Chitosan-Modified Poly(L-Lactide-co- ϵ -Caprolactone) Scaffolds. Manuals in Biomedical Research, 2014, , 49-58.	0.0	0