

Dai Fei Elmer Ker

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

859
citations

566801

15
h-index

580395

25
g-index

27
all docs

27
docs citations

27
times ranked

1348
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioprinting of growth factors onto aligned sub-micron fibrous scaffolds for simultaneous control of cell differentiation and alignment. <i>Biomaterials</i> , 2011, 32, 8097-8107.	5.7	179
2	Engineering spatial control of multiple differentiation fates within a stem cell population. <i>Biomaterials</i> , 2011, 32, 3413-3422.	5.7	99
3	Automated Mitosis Detection of Stem Cell Populations in Phase-Contrast Microscopy Images. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 586-596.	5.4	96
4	Role of RhoA-Specific Guanine Exchange Factors in Regulation of Endomitosis in Megakaryocytes. <i>Developmental Cell</i> , 2012, 22, 573-584.	3.1	77
5	Functionally Graded, Bone- and Tendon-Like Polyurethane for Rotator Cuff Repair. <i>Advanced Functional Materials</i> , 2018, 28, 1707107.	7.8	43
6	Calvarial Versus Long Bone: Implications for Tailoring Skeletal Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 46-63.	2.5	42
7	Phase contrast time-lapse microscopy datasets with automated and manual cell tracking annotations. <i>Scientific Data</i> , 2018, 5, 180237.	2.4	33
8	Engineering multi-tissue units for regenerative Medicine: Bone-tendon-muscle units of the rotator cuff. <i>Biomaterials</i> , 2021, 272, 120789.	5.7	32
9	Precise Control of Osteogenesis for Craniofacial Defect Repair. <i>Annals of Plastic Surgery</i> , 2012, 69, 485-488.	0.5	28
10	Endothelial pattern formation in hybrid constructs of additive manufactured porous rigid scaffolds and cell-laden hydrogels for orthopedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 356-372.	1.5	27
11	Weakly Supervised Cell Instance Segmentation by Propagating from Detection Response. <i>Lecture Notes in Computer Science</i> , 2019, , 649-657.	1.0	25
12	An Engineered Approach to Stem Cell Culture: Automating the Decision Process for Real-Time Adaptive Subculture of Stem Cells. <i>PLoS ONE</i> , 2011, 6, e27672.	1.1	23
13	Synthesis and characterization of novel elastomeric poly(D,L-lactide urethane) maleate composites for bone tissue engineering. <i>European Polymer Journal</i> , 2013, 49, 3337-3349.	2.6	20
14	Identifying deer antler uhrf1 proliferation and s100a10 mineralization genes using comparative RNA-seq. <i>Stem Cell Research and Therapy</i> , 2018, 9, 292.	2.4	17
15	Weakly supervised cell instance segmentation under various conditions. <i>Medical Image Analysis</i> , 2021, 73, 102182.	7.0	17
16	Apoptosis Detection for Adherent Cell Populations in Time-Lapse Phase-Contrast Microscopy Images. <i>Lecture Notes in Computer Science</i> , 2012, 15, 331-339.	1.0	16
17	Weakly-Supervised Cell Tracking via Backward-and-Forward Propagation. <i>Lecture Notes in Computer Science</i> , 2020, , 104-121.	1.0	15
18	Hyaluronic acid drives mesenchymal stromal cell-derived extracellular matrix assembly by promoting fibronectin fibrillogenesis. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7205-7215.	2.9	12

#	ARTICLE	IF	CITATIONS
19	Combinatorial mechanical gradation and growth factor biopatterning strategy for spatially controlled bone-tendon-like cell differentiation and tissue formation. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	12
20	Cell-sensitive phase contrast microscopy imaging by multiple exposures. <i>Medical Image Analysis</i> , 2015, 25, 111-121.	7.0	10
21	Hemocompatibility evaluation of small elastomeric hollow fiber membranes as vascular substitutes. <i>Journal of Biomaterials Applications</i> , 2014, 29, 557-565.	1.2	7
22	Acoustic Patterning of Growth Factor for Three-Dimensional Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2020, 26, 602-612.	1.6	7
23	Engineering Musculoskeletal Grafts for Multi-Tissue Unit Repair: Lessons From Developmental Biology and Wound Healing. <i>Frontiers in Physiology</i> , 2021, 12, 691954.	1.3	7
24	Development of mRuby2-Transfected C3H10T1/2 Fibroblasts for Musculoskeletal Tissue Engineering. <i>PLoS ONE</i> , 2015, 10, e0139054.	1.1	6
25	Mitosis detection of hematopoietic stem cell populations in time-lapse phase-contrast microscopy images. , 2012, , .		5
26	Ruminants: Evolutionary past and future impact. <i>Science</i> , 2019, 364, 1130-1131.	6.0	3
27	Data-driven prediction of stem cell expansion cultures. , 2011, 2011, 3577-80.		1