

Jeroen Leijten

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6253969/jeroen-leijten-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,828
citations

33
h-index

52
g-index

80
ext. papers

3,420
ext. citations

9.1
avg. IF

5.19
L-index

#	Paper	IF	Citations
70	Trophic effects of mesenchymal stem cells increase chondrocyte proliferation and matrix formation. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1425-36	3.9	212
69	Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. <i>Advanced Functional Materials</i> , 2017 , 27, 1605352	15.6	173
68	Trophic Effects of Mesenchymal Stem Cells in Tissue Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 515-528	7.9	142
67	Gene expression profiling of dedifferentiated human articular chondrocytes in monolayer culture. <i>Osteoarthritis and Cartilage</i> , 2013 , 21, 599-603	6.2	122
66	Spatially and Temporally Controlled Hydrogels for Tissue Engineering. <i>Materials Science and Engineering Reports</i> , 2017 , 119, 1-35	30.9	115
65	Integrin-Mediated Interactions Control Macrophage Polarization in 3D Hydrogels. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700289	10.1	101
64	Gremlin 1, frizzled-related protein, and Dkk-1 are key regulators of human articular cartilage homeostasis. <i>Arthritis and Rheumatism</i> , 2012 , 64, 3302-12		101
63	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. <i>Biomaterials</i> , 2017 , 139, 163-171	15.6	96
62	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 82-96	1.3	95
61	Metabolic programming of mesenchymal stromal cells by oxygen tension directs chondrogenic cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13954-9	11.5	85
60	Optimizing cell viability in droplet-based cell deposition. <i>Scientific Reports</i> , 2015 , 5, 11304	4.9	72
59	High throughput generated micro-aggregates of chondrocytes stimulate cartilage formation in vitro and in vivo. <i>European Cells and Materials</i> , 2012 , 23, 387-99	4.3	70
58	The effect of platelet lysate supplementation of a dextran-based hydrogel on cartilage formation. <i>Biomaterials</i> , 2012 , 33, 3651-61	15.6	64
57	Cell sources for articular cartilage repair strategies: shifting from monocultures to cocultures. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 31-40	7.9	61
56	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. <i>Nano Letters</i> , 2017 , 17, 6235-6240	11.5	60
55	Platelet-Rich Blood Derivatives for Stem Cell-Based Tissue Engineering and Regeneration. <i>Current Stem Cell Reports</i> , 2016 , 2, 33-42	1.8	55
54	Fibroblast growth factor-1 is a mesenchymal stromal cell-secreted factor stimulating proliferation of osteoarthritic chondrocytes in co-culture. <i>Stem Cells and Development</i> , 2013 , 22, 2356-67	4.4	54

53	Oxygen-Generating Photo-Cross-Linkable Hydrogels Support Cardiac Progenitor Cell Survival by Reducing Hypoxia-Induced Necrosis. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1964-1971	5.5	51
52	Single Cell Microgel Based Modular Bioinks for Uncoupled Cellular Micro- and Macroenvironments. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600913	10.1	51
51	GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors. <i>Arthritis Research and Therapy</i> , 2013 , 15, R126	5.7	51
50	Advancing Tissue Engineering: A Tale of Nano-, Micro-, and Macroscale Integration. <i>Small</i> , 2016 , 12, 2130-2145	11.4	49
49	Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model. <i>Small</i> , 2017 , 13, 1603737-11	11.1	48
48	Single-Cell Microgels: Technology, Challenges, and Applications. <i>Trends in Biotechnology</i> , 2018 , 36, 850-865	11.1	43
47	Concise Review: Organ Engineering: Design, Technology, and Integration. <i>Stem Cells</i> , 2017 , 35, 51-60	5.8	43
46	Ocular adhesives: Design, chemistry, crosslinking mechanisms, and applications. <i>Biomaterials</i> , 2019 , 197, 345-367	15.6	42
45	Centering Single Cells in Microgels via Delayed Crosslinking Supports Long-Term 3D Culture by Preventing Cell Escape. <i>Small</i> , 2017 , 13, 1603711	11	36
44	High-throughput approaches for screening and analysis of cell behaviors. <i>Biomaterials</i> , 2018 , 153, 85-101	15.6	35
43	Cartilage tissue engineering. <i>Endocrine Development</i> , 2011 , 21, 102-115		34
42	Recognizing different tissues in human fetal femur cartilage by label-free Raman microspectroscopy. <i>Journal of Biomedical Optics</i> , 2012 , 17, 116012	3.5	34
41	From Nano to Macro: Multiscale Materials for Improved Stem Cell Culturing and Analysis. <i>Cell Stem Cell</i> , 2016 , 18, 20-4	18	33
40	3D Printed Cartilage-Like Tissue Constructs with Spatially Controlled Mechanical Properties. <i>Advanced Functional Materials</i> , 2019 , 29, 1906330	15.6	33
39	Cell based advanced therapeutic medicinal products for bone repair: Keep it simple?. <i>Advanced Drug Delivery Reviews</i> , 2015 , 84, 30-44	18.5	33
38	Hypoxia inhibits hypertrophic differentiation and endochondral ossification in explanted tibiae. <i>PLoS ONE</i> , 2012 , 7, e49896	3.7	33
37	Healing of a Large Long-Bone Defect through Serum-Free In Vitro Priming of Human Periosteum-Derived Cells. <i>Stem Cell Reports</i> , 2017 , 8, 758-772	8	32
36	The matrix reloaded: the evolution of regenerative hydrogels. <i>Materials Today</i> , 2016 , 19, 190-196	21.8	31

35	Ultrahigh-Throughput Production of Monodisperse and Multifunctional Janus Microparticles Using in-Air Microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23433-23438	9.5	31
34	Bioinspired seeding of biomaterials using three dimensional microtissues induces chondrogenic stem cell differentiation and cartilage formation under growth factor free conditions. <i>Scientific Reports</i> , 2016 , 6, 36011	4.9	27
33	In vivo screening of extracellular matrix components produced under multiple experimental conditions implanted in one animal. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 889-98	3.7	27
32	A dual flow bioreactor with controlled mechanical stimulation for cartilage tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 774-83	2.9	26
31	Interconnectable Dynamic Compression Bioreactors for Combinatorial Screening of Cell Mechanobiology in Three Dimensions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13293-13303	9.5	25
30	Nitric Oxide Mediates Crosstalk between Interleukin 1 β and WNT Signaling in Primary Human Chondrocytes by Reducing DKK1 and FRZB Expression. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	24
29	Immune Organs and Immune Cells on a Chip: An Overview of Biomedical Applications. <i>Micromachines</i> , 2020 , 11,	3.3	21
28	Bioionic Liquid Conjugation as Universal Approach To Engineer Hemostatic Bioadhesives. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38373-38384	9.5	20
27	Mimicking the Articular Joint with In Vitro Models. <i>Trends in Biotechnology</i> , 2019 , 37, 1063-1077	15.1	20
26	Enzymatic Crosslinking of Polymer Conjugates is Superior over Ionic or UV Crosslinking for the On-Chip Production of Cell-Laden Microgels. <i>Macromolecular Bioscience</i> , 2016 , 16, 1524-1532	5.5	20
25	Chondrocytes Cocultured with Stromal Vascular Fraction of Adipose Tissue Present More Intense Chondrogenic Characteristics Than with Adipose Stem Cells. <i>Tissue Engineering - Part A</i> , 2016 , 22, 336-48 ^{3.9}	3.9	19
24	Nanoemulsion-induced enzymatic crosslinking of tyramine-functionalized polymer droplets. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4835-4844	7.3	17
23	Engineering 3D parallelized microfluidic droplet generators with equal flow profiles by computational fluid dynamics and stereolithographic printing. <i>Lab on A Chip</i> , 2020 , 20, 490-495	7.2	14
22	Rapid and cytocompatible cell-laden silk hydrogel formation riboflavin-mediated crosslinking. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9566-9575	7.3	14
21	Boosting angiogenesis and functional vascularization in injectable dextran-hyaluronic acid hydrogels by endothelial-like mesenchymal stromal cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 819-29	3.9	13
20	Fetal mesenchymal stromal cells differentiating towards chondrocytes acquire a gene expression profile resembling human growth plate cartilage. <i>PLoS ONE</i> , 2012 , 7, e44561	3.7	13
19	Nanomaterials for the Local and Targeted Delivery of Osteoarthritis Drugs. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-13	3.2	12
18	A Qualitative Model of the Differentiation Network in Chondrocyte Maturation: A Holistic View of Chondrocyte Hypertrophy. <i>PLoS ONE</i> , 2016 , 11, e0162052	3.7	12

17	Oxygen-Releasing Biomaterials: Current Challenges and Future Applications. <i>Trends in Biotechnology</i> , 2021 , 39, 1144-1159	15.1	12
16	Spatiotemporal material functionalization via competitive supramolecular complexation of avidin and biotin analogs. <i>Nature Communications</i> , 2019 , 10, 4347	17.4	11
15	Microwell Scaffolds Using Collagen-IV and Laminin-111 Lead to Improved Insulin Secretion of Human Islets. <i>Tissue Engineering - Part C: Methods</i> , 2019 , 25, 71-81	2.9	10
14	Monolithic microfluidic platform for exerting gradients of compression on cell-laden hydrogels, and application to a model of the articular cartilage. <i>Sensors and Actuators B: Chemical</i> , 2020 , 315, 127917	8.5	9
13	Dickkopf-related protein 1 and gremlin 1 show different response than frizzled-related protein in human synovial fluid following knee injury and in patients with osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018 , 26, 834-843	6.2	8
12	On-the-fly exchangeable microfluidic nozzles for facile production of various monodisperse micromaterials. <i>Lab on A Chip</i> , 2019 , 19, 1977-1984	7.2	6
11	Enzymatic outside-in cross-linking enables single-step microcapsule production for high-throughput three-dimensional cell microaggregate formation. <i>Materials Today Bio</i> , 2020 , 6, 100047	9.9	6
10	Fibronectin and Collagen IV Microcontact Printing Improves Insulin Secretion by INS1E Cells. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 628-636	2.9	5
9	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non-Cell-Adhesive Materials. <i>Advanced Materials</i> , 2021 , 33, e2102660	24	3
8	Tissue Engineering: Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs (Adv. Funct. Mater. 12/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2
7	Self-Oxygenation of Tissues Orchestrates Full-Thickness Vascularization of Living Implants.. <i>Advanced Functional Materials</i> , 2021 , 31, 2100850	15.6	2
6	In vitro degradation profiles and in vivo biomaterial-tissue interactions of microwell array delivery devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 117-127	3.5	2
5	Organ-On-A-Chip: Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model (Small 15/2017). <i>Small</i> , 2017 , 13,	11	1
4	3D Printed Tissues: 3D Printed Cartilage-Like Tissue Constructs with Spatially Controlled Mechanical Properties (Adv. Funct. Mater. 51/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970350	15.6	1
3	Enzyme-mediated Alleviation of Peroxide Toxicity in Self-oxygenating Biomaterials.. <i>Advanced Healthcare Materials</i> , 2022 , e2102697	10.1	0
2	Scalable fabrication, compartmentalization and applications of living microtissues.. <i>Bioactive Materials</i> , 2023 , 19, 392-405	16.7	0
1	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non-Cell-Adhesive Materials (Adv. Mater. 42/2021). <i>Advanced Materials</i> , 2021 , 33, 2170333	24	