

# Jan Hansmann

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,361  
citations

394421

19  
h-index

345221

36  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2072  
citing authors

#	ARTICLE	IF	CITATIONS
1	State-of-the-art of 3D cultures (organs-on-a-chip) in safety testing and pathophysiology. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 441-477.	1.5	166
2	Generation and Transplantation of an Autologous Vascularized Bioartificial Human Tissue. Transplantation, 2009, 88, 203-210.	1.0	105
3	Development of an Advanced Primary Human <i>In Vitro</i> Model of the Small Intestine. Tissue Engineering - Part C: Methods, 2016, 22, 873-883.	2.1	103
4	Bioreactors in tissue engineering—principles, applications and commercial constraints. Biotechnology Journal, 2013, 8, 298-307.	3.5	87
5	A first vascularized skin equivalent for as an alternative to animal experimentation. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 415-422.	1.5	77
6	Engineered Liver-Like Tissue on a Capillarized Matrix for Applied Research. Tissue Engineering, 2007, 13, 2699-2707.	4.6	76
7	3D models of the hematopoietic stem cell niche under steady-state and active conditions. Scientific Reports, 2017, 7, 4625.	3.3	66
8	Impedance Spectroscopy for the Non-Destructive Evaluation of In Vitro Epidermal Models. Pharmaceutical Research, 2015, 32, 1845-1854.	3.5	45
9	A perfusion bioreactor system efficiently generates cell-loaded bone substitute materials for addressing critical size bone defects. Biotechnology Journal, 2015, 10, 1727-1738.	3.5	44
10	Mimicking Metastases Including Tumor Stroma: A New Technique to Generate a Three-Dimensional Colorectal Cancer Model Based on a Biological Decellularized Intestinal Scaffold. Tissue Engineering - Part C: Methods, 2016, 22, 621-635.	2.1	42
11	Development and Characterization of a Parallelizable Perfusion Bioreactor for 3D Cell Culture. Bioengineering, 2017, 4, 51.	3.5	38
12	A multilayered electrospun graft as vascular access for hemodialysis. PLoS ONE, 2017, 12, e0185916.	2.5	33
13	Automated real-time monitoring of human pluripotent stem cell aggregation in stirred tank reactors. Scientific Reports, 2019, 9, 12297.	3.3	30
14	Development and application of three-dimensional skin equivalents for the investigation of percutaneous worm invasion. Experimental Parasitology, 2015, 150, 22-30.	1.2	29
15	Hypoxic Three-Dimensional Scaffold-Free Aggregate Cultivation of Mesenchymal Stem Cells in a Stirred Tank Reactor. Bioengineering, 2017, 4, 47.	3.5	28
16	A comparative multi-parametric in vitro model identifies the power of test conditions to predict the fibrotic tendency of a biomaterial. Scientific Reports, 2017, 7, 1689.	3.3	23
17	A versatile modular bioreactor platform for Tissue Engineering. Biotechnology Journal, 2017, 12, 1600326.	3.5	23
18	A bioreactor system for interfacial culture and physiological perfusion of vascularized tissue equivalents. Biotechnology Journal, 2013, 8, 308-316.	3.5	20

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19	Multifunctional Thioredoxin-Like Protein from the Gastrointestinal Parasitic Nematodes <i>Strongyloides ratti</i> and <i>Trichuris suis</i> Affects Mucosal Homeostasis. <i>Journal of Parasitology Research</i> , 2016, 2016, 1-17.	1.2	20
20	Feasibility Study on a Microwave-Based Sensor for Measuring Hydration Level Using Human Skin Models. <i>PLoS ONE</i> , 2016, 11, e0153145.	2.5	19
21	A three-dimensional hybrid pacemaker electrode seamlessly integrates into engineered, functional human cardiac tissue in vitro. <i>Scientific Reports</i> , 2018, 8, 14545.	3.3	17
22	Modeling of the Human Bone Environment: Mechanical Stimuli Guide Mesenchymal Stem Cell Extracellular Matrix Interactions. <i>Materials</i> , 2021, 14, 4431.	2.9	15
23	Generation of a Human Cardiac Patch Based on a Reendothelialized Biological Scaffold (BioVaSc). <i>Advanced Biology</i> , 2017, 1, 1600005.	3.0	14
24	Replacing the Draize eye test: Impedance spectroscopy as a 3R method to discriminate between all GHS categories for eye irritation. <i>Scientific Reports</i> , 2018, 8, 15049.	3.3	14
25	In vitro chemotaxis and tissue remodeling assays quantitatively characterize foreign body reaction. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017, 34, 253-266.	1.5	14
26	Deformation strain is the main physical driver for skeletal precursors to undergo osteogenesis in earlier stages of osteogenic cell maturation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1474-e1479.	2.7	13
27	An in vitro model mimics the contact of biomaterials to blood components and the reaction of surrounding soft tissue. <i>Acta Biomaterialia</i> , 2019, 89, 227-241.	8.3	12
28	Optimization and Validation of a Custom-Designed Perfusion Bioreactor for Bone Tissue Engineering: Flow Assessment and Optimal Culture Environmental Conditions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 811942.	4.1	12
29	SPARC (secreted protein acidic and rich in cysteine) of the intestinal nematode <i>Strongyloides ratti</i> is involved in mucosa-associated parasite-host interaction. <i>Molecular and Biochemical Parasitology</i> , 2016, 207, 75-83.	1.1	10
30	Nanostructured TiN-Coated Electrodes for High-Sensitivity Noninvasive Characterization of in Vitro Tissue Models. <i>ACS Applied Nano Materials</i> , 2018, 1, 2284-2293.	5.0	10
31	A Mouse Bone Marrow Stromal Cell Line with Skeletal Stem Cell Characteristics to Study Osteogenesis In Vitro and In Vivo. <i>Stem Cells and Development</i> , 2014, 23, 1097-1108.	2.1	9
32	Biomimetic in vitro test system for evaluation of dental implant materials. <i>Dental Materials</i> , 2020, 36, 1059-1070.	3.5	9
33	Biomimetic Mineralization Promotes Viability and Differentiation of Human Mesenchymal Stem Cells in a Perfusion Bioreactor. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1447.	4.1	9
34	Fully Synthetic 3D Fibrous Scaffolds for Stromal Tissues Replace Replacement of Animal-Derived Scaffold Materials Demonstrated by Multilayered Skin. <i>Advanced Materials</i> , 2022, 34, e2106780.	21.0	9
35	Nanotopographical Coatings Induce an Early Phenotype-Specific Response of Primary Material-Resident M1 and M2 Macrophages. <i>Materials</i> , 2020, 13, 1142.	2.9	8
36	Comparative characterization of two galectins excreted-secreted from intestine-dwelling parasitic versus free-living females of the soil-transmitted nematode <i>Strongyloides</i> . <i>Molecular and Biochemical Parasitology</i> , 2018, 225, 73-83.	1.1	7

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37	Online Measurement System for Dynamic Flow Bioreactors to Study Barrier Integrity of hiPSC-Based Bloodâ€‘Brain Barrier In Vitro Models. <i>Bioengineering</i> , 2022, 9, 39.	3.5	7
38	In Vivoâ€‘Like Culture Conditions in a Bioreactor Facilitate Improved Tissue Quality in Corneal Storage. <i>Biotechnology Journal</i> , 2018, 13, 1700344.	3.5	6
39	Preliminary evaluations of 3-dimensional human skin models for their ability to facilitate in vitro the long-term development of the debilitating obligatory human parasite <i>Onchocerca volvulus</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008503.	3.0	6
40	Toward allogeneizing a xenograft: Xenogeneic cardiac scaffolds recellularized with humanâ€‘induced pluripotent stem cells do not activate human naïve neutrophils. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 691-701.	3.4	6
41	Flexible tissue-like electrode as a seamless tissue-electronic interface. <i>BioNanoMaterials</i> , 2017, 18, .	1.4	5
42	Decellularization of Full Heartâ€‘Optimizing the Classical Sodium-Dodecyl-Sulfate-Based Decellularization Protocol. <i>Bioengineering</i> , 2022, 9, 147.	3.5	3
43	Improvement of the Electronicâ€‘Neuronal Interface by Natural Deposition of ECM. <i>Materials</i> , 2021, 14, 1378.	2.9	2
44	Evaluation of various bioreactor process systems for the production of induced pluripotent stem cells. <i>Journal of Translational Science</i> , 2016, 2, 277-285.	0.2	2
45	Automation of Cell Culture Processes. <i>Learning Materials in Biosciences</i> , 2018, , 155-168.	0.4	0
46	Title is missing!. , 2020, 14, e0008503.		0
47	Title is missing!. , 2020, 14, e0008503.		0
48	Title is missing!. , 2020, 14, e0008503.		0
49	Title is missing!. , 2020, 14, e0008503.		0