

Peter M Loskill

List of Publications by Year in descending order

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62
papers

3,542
citations

147726

31
h-index

143943

57
g-index

71
all docs

71
docs citations

71
times ranked

4958
citing authors

#	ARTICLE	IF	CITATIONS
1	Human iPSC-based Cardiac Microphysiological System For Drug Screening Applications. Scientific Reports, 2015, 5, 8883.	1.6	411
2	Merging organoid and organ-on-a-chip technology to generate complex multi-layer tissue models in a human retina-on-a-chip platform. ELife, 2019, 8, .	2.8	256
3	Automated Video-Based Analysis of Contractility and Calcium Flux in Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes Cultured over Different Spatial Scales. Tissue Engineering - Part C: Methods, 2015, 21, 467-479.	1.1	232
4	Miniaturized iPS-Cell-Derived Cardiac Muscles for Physiologically Relevant Drug Response Analyses. Scientific Reports, 2016, 6, 24726.	1.6	191
5	Self-organizing human cardiac microchambers mediated by geometric confinement. Nature Communications, 2015, 6, 7413.	5.8	167
6	Directing cell migration and organization via nanocrater-patterned cell-repellent interfaces. Nature Materials, 2015, 14, 918-923.	13.3	159
7	In vitro cardiac tissue models: Current status and future prospects. Advanced Drug Delivery Reviews, 2016, 96, 203-213.	6.6	150
8	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394.	0.9	123
9	High-throughput organ-on-a-chip systems: Current status and remaining challenges. Current Opinion in Biomedical Engineering, 2018, 6, 33-41.	1.8	113
10	Impact of organ-on-a-chip technology on pharmaceutical R&D costs. Drug Discovery Today, 2019, 24, 1720-1724.	3.2	105
11	Three-dimensional filamentous human diseased cardiac tissue model. Biomaterials, 2014, 35, 1367-1377.	5.7	102
12	¼Organo: A Lego®-Like Plug & Play System for Modular Multi-Organ-Chips. PLoS ONE, 2015, 10, e0139587.	1.1	94
13	WAT-on-a-chip: a physiologically relevant microfluidic system incorporating white adipose tissue. Lab on A Chip, 2017, 17, 1645-1654.	3.1	93
14	Reduction of the Peptidoglycan Crosslinking Causes a Decrease in Stiffness of the Staphylococcus aureus Cell Envelope. Biophysical Journal, 2014, 107, 1082-1089.	0.2	83
15	Non-invasive marker-independent high content analysis of a microphysiological human pancreas-on-a-chip model. Matrix Biology, 2020, 85-86, 205-220.	1.5	72
16	Integration concepts for multi-organ chips: how to maintain flexibility?!. Future Science OA, 2017, 3, FSO180.	0.9	60
17	WAT-on-a-chip integrating human mature white adipocytes for mechanistic research and pharmaceutical applications. Scientific Reports, 2020, 10, 6666.	1.6	58
18	Stem-cell based organ-on-a-chip models for diabetes research. Advanced Drug Delivery Reviews, 2019, 140, 101-128.	6.6	55

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19	User-Friendly and Parallelized Generation of Human Induced Pluripotent Stem Cell-Derived Microtissues in a Centrifugal Heart-on-a-Chip. <i>Tissue Engineering - Part A</i> , 2019, 25, 786-798.	1.6	53
20	Impact of van der Waals Interactions on Single Asperity Friction. <i>Physical Review Letters</i> , 2013, 111, 035502.	2.9	50
21	Human induced pluripotent stem cell-based microphysiological tissue models of myocardium and liver for drug development. <i>Stem Cell Research and Therapy</i> , 2013, 4, S14.	2.4	48
22	Hydrophobic interaction governs unspecific adhesion of staphylococci: a single cell force spectroscopy study. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1501-1512.	1.5	47
23	Subsurface Influence on the Structure of Protein Adsorbates as Revealed by in Situ X-ray Reflectivity. <i>Langmuir</i> , 2012, 28, 7747-7756.	1.6	45
24	Macroscale adhesion of gecko setae reflects nanoscale differences in subsurface composition. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120587.	1.5	42
25	Building blocks for a European Organ-on-Chip roadmap. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 481-492.	0.9	41
26	Organ-on-a-chip technologies that can transform ophthalmic drug discovery and disease modeling. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 47-57.	2.5	40
27	Membrane integration into PDMS-free microfluidic platforms for organ-on-chip and analytical chemistry applications. <i>Lab on A Chip</i> , 2021, 21, 1866-1885.	3.1	39
28	Reduced Adhesion of Oral Bacteria on Hydroxyapatite by Fluoride Treatment. <i>Langmuir</i> , 2013, 29, 5528-5533.	1.6	38
29	Immunocompetent cancer-on-chip models to assess immuno-oncology therapy. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 281-305.	6.6	38
30	Is adhesion superficial? Silicon wafers as a model system to study van der Waals interactions. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 107-113.	7.0	36
31	Dose-Dependent Tissue-Level Characterization of a Medical Atmospheric Pressure Argon Plasma Jet. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19841-19853.	4.0	36
32	Stochastic binding of <i>Staphylococcus aureus</i> to hydrophobic surfaces. <i>Soft Matter</i> , 2015, 11, 8913-8919.	1.2	35
33	Influence of the Subsurface Composition of a Material on the Adhesion of Staphylococci. <i>Langmuir</i> , 2012, 28, 7242-7248.	1.6	32
34	Organ-on-a-Chip Systems for Women's Health Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700550.	3.9	31
35	A detailed guideline for the fabrication of single bacterial probes used for atomic force spectroscopy. <i>European Physical Journal E</i> , 2015, 38, 140.	0.7	27
36	Human stem cell-based retina on chip as new translational model for validation of AAV retinal gene therapy vectors. <i>Stem Cell Reports</i> , 2021, 16, 2242-2256.	2.3	27

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37	Multivalent hyaluronic acid bioconjugates improve sFlt-1 activity in vitro. <i>Biomaterials</i> , 2016, 93, 95-105.	5.7	25
38	The Inflammatory Profile of Obesity and the Role on Pulmonary Bacterial and Viral Infections. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3456.	1.8	24
39	Beyond PDMS and Membranes: New Materials for Organ-on-a-Chip Devices. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2861-2863.	2.6	23
40	Facile Patterning of Thermoplastic Elastomers and Robust Bonding to Glass and Thermoplastics for Microfluidic Cell Culture and Organ-on-Chip. <i>Micromachines</i> , 2021, 12, 575.	1.4	21
41	Noninvasive Physical Plasma as Innovative and Tissue-Preserving Therapy for Women Positive for Cervical Intraepithelial Neoplasia. <i>Cancers</i> , 2022, 14, 1933.	1.7	20
42	Autologous Human Immunocompetent White Adipose Tissue-on-Chip. <i>Advanced Science</i> , 2022, 9, e2104451.	5.6	18
43	Peristaltic on-chip pump for tunable media circulation and whole blood perfusion in PDMS-free organ-on-chip and Organ-Disc systems. <i>Lab on A Chip</i> , 2021, 21, 3963-3978.	3.1	17
44	Collagen and Endothelial Cell Coculture Improves Î²-Cell Functionality and Rescues Pancreatic Extracellular Matrix. <i>Tissue Engineering - Part A</i> , 2021, 27, 977-991.	1.6	15
45	Integration of Electrospun Membranes into Low-Absorption Thermoplastic Organ-on-Chip. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3006-3017.	2.6	15
46	Fusing spheroids to aligned Î¼-tissues in a heart-on-chip featuring oxygen sensing and electrical pacing capabilities. <i>Materials Today Bio</i> , 2022, 15, 100280.	2.6	15
47	Human immunocompetent choroid-on-chip: a novel tool for studying ocular effects of biological drugs. <i>Communications Biology</i> , 2022, 5, 52.	2.0	14
48	Organ-on-a-disc: A platform technology for the centrifugal generation and culture of microphysiological 3D cell constructs amenable for automation and parallelization. <i>APL Bioengineering</i> , 2020, 4, 046101.	3.3	12
49	Facile Macrocyclic Polyphenol Barrier Coatings for PDMS Microfluidic Devices. <i>Advanced Functional Materials</i> , 2020, 30, 2001274.	7.8	12
50	Studying metabolism with multi-organ chips: new tools for disease modelling, pharmacokinetics and pharmacodynamics. <i>Open Biology</i> , 2022, 12, 210333.	1.5	12
51	Developer's Guide to an Organ-on-Chip Model. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 4643-4647.	2.6	12
52	Engineering Tissues from Induced Pluripotent Stem Cells. <i>Tissue Engineering - Part A</i> , 2019, 25, 707-710.	1.6	11
53	How Can Microfluidic and Microfabrication Approaches Make Experiments More Physiologically Relevant?. <i>Cell Systems</i> , 2020, 11, 209-211.	2.9	11
54	Fluorescence lifetime metabolic mapping of hypoxia-induced damage in pancreatic pseudo-islets. <i>Journal of Biophotonics</i> , 2020, 13, e202000375.	1.1	8

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55	Challenging the pipeline. <i>Stem Cell Reports</i> , 2021, 16, 2033-2037.	2.3	8
56	Development of a bi-layered cryogenic electrospun polylactic acid scaffold to study calcific aortic valve disease in a 3D co-culture model. <i>Acta Biomaterialia</i> , 2022, 140, 364-378.	4.1	7
57	Microphysiological stem cell models of the human heart. <i>Materials Today Bio</i> , 2022, 14, 100259.	2.6	4
58	Stem cell based human organ-on-a-chip models for drug discovery and development. <i>Advanced Drug Delivery Reviews</i> , 2019, 140, 1-2.	6.6	3
59	Isolation, Integration, and Culture of Human Mature Adipocytes Leveraging Organ-on-Chip Technology. <i>Methods in Molecular Biology</i> , 2022, 2373, 297-313.	0.4	0
60	Technische Heimaten für menschliche Zellen. , 2019, , 67-94.		0
61	Organ-on-Chip: Playing LEGO® With Mini-Organs to Reduce Animal Testing and Make Medicines Safer. <i>Frontiers for Young Minds</i> , 0, 8, .	0.8	0
62	Organ-on-Chip. , 2022, , 1127-1144.		0