Harald C Ott

List of Publications by Citations

64 papers	6,018 citations	26 h-index	72 g-index
72 ext. papers	6,868 ext. citations	9.7 avg, IF	5.69 L-index

#	Paper	IF	Citations
64	Perfusion-decellularized matrix: using nature's platform to engineer a bioartificial heart. *Nature Medicine*, **2008**, 14, 213-21	50.5	2047
63	Regeneration and orthotopic transplantation of a bioartificial lung. *Nature Medicine*, **2010**, 16, 927-33	50.5	838
62	Regeneration and experimental orthotopic transplantation of a bioengineered kidney. *Nature Medicine*, **2013**, 19, 646-51	50.5	579
61	Organ engineering based on decellularized matrix scaffolds. *Trends in Molecular Medicine*, **2011**, 17, 424-32	12.5	386
60	Bioengineering Human Myocardium on Native Extracellular Matrix. *Circulation Research*, **2016**, 118, 56-72	15.7	213
59	Perfusion decellularization of human and porcine lungs: bringing the matrix to clinical scale. *Journal of Heart and Lung Transplantation*, **2014**, 33, 298-308	5.8	189
58	Perfusion decellularization of whole organs. *Nature Protocols*, **2014**, 9, 1451-68	18.8	160
57	Engineering pulmonary vasculature in decellularized rat and human lungs. *Nature Biotechnology*, **2015**, 33, 1097-102	44.5	154
56	Enhanced in vivo function of bioartificial lungs in rats. *Annals of Thoracic Surgery*, **2011**, 92, 998-1005; discussion 1005-6	2.7	150
55	The adult human heart as a source for stem cells: repair strategies with embryonic-like progenitor cells. *Nature Clinical Practice Cardiovascular Medicine*, **2007**, 4 Suppl 1, S27-39		103
54	Enhanced lung epithelial specification of human induced pluripotent stem cells on decellularized lung matrix. *Annals of Thoracic Surgery*, **2014**, 98, 1721-9; discussion 1729	2.7	100
53	Perspectives on whole-organ assembly: moving toward transplantation on demand. *Journal of Clinical Investigation*, **2012**, 122, 3817-23	15.9	96
52	Decellularized scaffolds as a platform for bioengineered organs. *Current Opinion in Organ Transplantation*, **2014**, 19, 145-52	2.5	88
51	Proteomic analysis of naturally-sourced biological scaffolds. *Biomaterials*, **2016**, 75, 37-46	15.6	85
50	Engineered composite tissue as a bioartificial limb graft. *Biomaterials*, **2015**, 61, 246-56	15.6	74
49	Human lung cancer cells grown on acellular rat lung matrix create perfusable tumor nodules. *Annals of Thoracic Surgery*, **2012**, 93, 1075-81	2.7	67
48	Bioengineering of functional human induced pluripotent stem cell-derived intestinal grafts. *Nature Communications*, **2017**, 8, 765	17.4	63

47	Bioengineering Human Lung Grafts on Porcine Matrix. *Annals of Surgery*, **2018**, 267, 590-598	7.8	53
46	Regenerative potential of human airway stem cells in lung epithelial engineering. *Biomaterials*, **2016**, 108, 111-9	15.6	52
45	Direct Reprogramming of Mouse Fibroblasts into Functional Skeletal Muscle Progenitors. *Stem Cell Reports*, **2018**, 10, 1505-1521	8	45
44	Ex vivo non-invasive assessment of cell viability and proliferation in bio-engineered whole organ constructs. *Biomaterials*, **2015**, 52, 103-12	15.6	43
43	Idiopathic Subglottic Stenosis: Factors Affecting Outcome After Single-Stage Repair. *Annals of Thoracic Surgery*, **2015**, 100, 1804-11	2.7	40
42	Design and validation of a clinical-scale bioreactor for long-term isolated lung culture. *Biomaterials*, **2015**, 52, 79-87	15.6	33
41	Fibrillin-2 and Tenascin-C bridge the age gap in lung epithelial regeneration. *Biomaterials*, **2017**, 140, 212-219	15.6	32
40	Biofabrication of a vascularized islet organ for type 1 diabetes. *Biomaterials*, **2019**, 199, 40-51	15.6	31
39	A reassessment of tracheal substitutes-a systematic review. *Annals of Cardiothoracic Surgery*, **2018**, 7, 175-182	4.7	26
38	Bioengineering Lungs for Transplantation. *Thoracic Surgery Clinics*, **2016**, 26, 163-71	3.1	25
37	Complications Following Carinal Resections and Sleeve Resections. *Thoracic Surgery Clinics*, **2015**, 25, 435-47	3.1	20
36	Creation of a Bioengineered Skin Flap Scaffold with a Perfusable Vascular Pedicle. *Tissue Engineering - Part A*, **2017**, 23, 696-707	3.9	19
35	Assessment of Proliferation and Cytotoxicity in a Biomimetic Three-Dimensional Model of Lung Cancer. *Annals of Thoracic Surgery*, **2015**, 100, 414-21	2.7	19
34	Image-guided Preoperative Localization of Pulmonary Nodules for Video-assisted and Robotically Assisted Surgery. *Radiographics*, **2019**, 39, 1264-1279	5.4	18
33	Postintubation Tracheal Stenosis: Management and Results 1993 to 2017. *Annals of Thoracic Surgery*, **2019**, 108, 1471-1477	2.7	18
32	Carinal surgery: A single-institution experience spanning 2 decades. *Journal of Thoracic and Cardiovascular Surgery*, **2019**, 157, 2073-2083.e1	1.5	14
31	Human-scale lung regeneration based on decellularized matrix scaffolds as a biologic platform. *Surgery Today*, **2020**, 50, 633-643	3	13
30	Bioengineering kidneys for transplantation. *Seminars in Nephrology*, **2014**, 34, 384-93	4.8	13

29	Spray Delivery of Intestinal Organoids to Reconstitute Epithelium on Decellularized Native Extracellular Matrix. *Tissue Engineering - Part C: Methods*, **2017**, 23, 565-573	2.9	13
28	Metabolic glycan labeling and chemoselective functionalization of native biomaterials. *Biomaterials*, **2018**, 182, 127-134	15.6	12
27	From cardiac repair to cardiac regeneration--ready to translate?. *Expert Opinion on Biological Therapy*, **2006**, 6, 867-78	5.4	12
26	Creation of Laryngeal Grafts from Primary Human Cells and Decellularized Laryngeal Scaffolds. *Tissue Engineering - Part A*, **2020**, 26, 543-555	3.9	9
25	Programmed death ligand 1 and CD8+ immune cell infiltrates in resected primary tracheal malignant neoplasms. *European Journal of Cardio-thoracic Surgery*, **2019**, 55, 691-698	3	9
24	Engineering tissues for children: building grafts that grow. *Lancet, The*, **2012**, 380, 957-8	40	8
23	A Fully Automated High-Throughput Bioreactor System for Lung Regeneration. *Tissue Engineering - Part C: Methods*, **2018**, 24, 671-678	2.9	7
22	Bioartificial tissues and organs: are we ready to translate?. *Lancet, The*, **2011**, 378, 1977-1978	40	6
21	Human iPS-derived pre-epicardial cells direct cardiomyocyte aggregation expansion and organization in vitro. *Nature Communications*, **2021**, 12, 4997	17.4	6
20	Feasibility of Perioperative Micro-Computed Tomography of Human Lung Cancer Specimens: A Pilot Study. *Archives of Pathology and Laboratory Medicine*, **2019**, 143, 319-325	5	4
19	Preclinical quantification of air leaks in a physiologic lung model: effects of ventilation modality and staple design. *Medical Devices: Evidence and Research*, **2018**, 11, 433-442	1.5	4
18	Can We Re-Engineer the Endocrine Pancreas?. *Current Diabetes Reports*, **2018**, 18, 122	5.6	4
17	Pulmonary Artery Resection During Lung Resection for Malignancy. *Annals of Thoracic Surgery*, **2019**, 108, 1692-1700	2.7	3
16	Orthotopic Transplantation of Human Bioartificial Lung Grafts in a Porcine Model: A Feasibility Study. *Seminars in Thoracic and Cardiovascular Surgery*, **2021**,	1.7	3
15	Engineering Bioartificial Lungs for Transplantation. *Current Stem Cell Reports*, **2017**, 3, 55-67	1.8	2
14	CT-Guided Thoracic Duct Embolization. *Journal of Vascular and Interventional Radiology*, **2016**, 27, 1753-1755	2.4	2
13	Bioprosthetics and repair of complex aerodigestive defects. *Annals of Cardiothoracic Surgery*, **2018**, 7, 284-292	4.7	2
12	Bioprinting Organs-Progress Toward a Moonshot Idea. *Transplantation*, **2020**, 104, 1310-1311	1.8	1

List of Publications

11	Management and outcomes of esophageal perforation. *Ecological Management and Restoration*, **2021**,	3	1
10	Intralipid improves oxygenation after orthotopic rat lung transplantation. *Journal of Heart and Lung Transplantation*, **2019**, 38, 225-227	5.8	1
9	Preliminary analysis of total neoadjuvant therapy for patients with locally advanced gastric (G) and gastroesophageal (GE) adenocarcinoma.. *Journal of Clinical Oncology*, **2020**, 38, 393-393	2.2	0
8	Non-small cell lung cancer: Analysis using mass cytometry and next generation sequencing reveals new opportunities for the development of personalized therapies.. *Journal of Clinical Oncology*, **2020**, 38, e21026-e21026	2.2	0
7	Programmed Death Ligand 1 and Immune Cell Infiltrates in Solitary Fibrous Tumors of the Pleura. *Annals of Thoracic Surgery*, **2021**, 112, 1862-1869	2.7	0
6	Protease inhibitor Camostat Mesyalte blocks wild type SARS-CoV-2 and D614G viral entry in human engineered miniature lungs.. *Biomaterials*, **2022**, 285, 121509	15.6	0
5	Regenerative Medicine of the Respiratory Tract **2019**, 1059-1072		
4	Invited commentary. *Annals of Thoracic Surgery*, **2013**, 96, 1056	2.7	
3	Invited commentary. *Annals of Thoracic Surgery*, **2007**, 84, 1727-8	2.7	
2	Angiotensin system inhibitors during induction chemotherapy for esophageal adenocarcinoma: Analysis of survival.. *Journal of Clinical Oncology*, **2018**, 36, e16066-e16066	2.2	
1	Extended Biomimetic Culture and Functional Assessment of Recellularized Human Lungs. *FASEB Journal*, **2015**, 29, 1029.18	0.9	