Harald C Ott

List of Publications by Year
in descending order

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72 papers	7,436 citations	186265 28 h-index	102487 66 g-index
72 all docs	72 docs citations	72 times ranked	7070 citing authors

#	Article	IF	Citations
1	Perfusion-decellularized matrix: using nature's platform to engineer a bioartificial heart. Nature Medicine, 2008, 14, 213-221.	30.7	2,385
2	Regeneration and orthotopic transplantation of a bioartificial lung. Nature Medicine, 2010, 16, 927-933.	30.7	980
3	Regeneration and experimental orthotopic transplantation of a bioengineered kidney. Nature Medicine, 2013, 19, 646-651.	30.7	682
4	Organ engineering based on decellularized matrix scaffolds. Trends in Molecular Medicine, 2011, 17, 424-432.	6.7	442
5	Bioengineering Human Myocardium on Native Extracellular Matrix. Circulation Research, 2016, 118, 56-72.	4.5	280
6	Perfusion decellularization of human and porcine lungs: Bringing the matrix to clinical scale. Journal of Heart and Lung Transplantation, 2014, 33, 298-308.	0.6	229
7	Perfusion decellularization of whole organs. Nature Protocols, 2014, 9, 1451-1468.	12.0	220
8	Engineering pulmonary vasculature in decellularized rat and human lungs. Nature Biotechnology, 2015, 33, 1097-1102.	17.5	199
9	Enhanced In Vivo Function of Bioartificial Lungs in Rats. Annals of Thoracic Surgery, 2011, 92, 998-1006.	1.3	168
10	Enhanced Lung Epithelial Specification of Human Induced Pluripotent Stem Cells on Decellularized Lung Matrix. Annals of Thoracic Surgery, 2014, 98, 1721-1729.	1.3	117
11	The adult human heart as a source for stem cells: repair strategies with embryonic-like progenitor cells. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S27-S39.	3.3	115
12	Proteomic analysis of naturally-sourced biological scaffolds. Biomaterials, 2016, 75, 37-46.	11.4	115
13	Decellularized scaffolds as a platform for bioengineered organs. Current Opinion in Organ Transplantation, 2014, 19, 145-152.	1.6	109
14	Perspectives on whole-organ assembly: moving toward transplantation on demand. Journal of Clinical Investigation, 2012, 122, 3817-3823.	8.2	102
15	Engineered composite tissue as a bioartificial limb graft. Biomaterials, 2015, 61, 246-256.	11.4	99
16	Bioengineering of functional human induced pluripotent stem cell-derived intestinal grafts. Nature Communications, 2017, 8, 765.	12.8	91
17	Bioengineering Human Lung Grafts on Porcine Matrix. Annals of Surgery, 2018, 267, 590-598.	4.2	80
18	Direct Reprogramming of Mouse Fibroblasts into Functional Skeletal Muscle Progenitors. Stem Cell Reports, 2018, 10, 1505-1521.	4.8	74

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19	Human Lung Cancer Cells Grown on Acellular Rat Lung Matrix Create Perfusable Tumor Nodules. Annals of Thoracic Surgery, 2012, 93, 1075-1081.	1.3	72
20	Regenerative potential of human airway stem cells in lung epithelial engineering. Biomaterials, 2016, 108, 111-119.	11.4	66
21	Biofabrication of a vascularized islet organ for type 1 diabetes. Biomaterials, 2019, 199, 40-51.	11.4	59
22	Fibrillin-2 and Tenascin-C bridge the age gap in lung epithelial regeneration. Biomaterials, 2017, 140, 212-219.	11.4	54
23	Idiopathic Subglottic Stenosis: Factors Affecting Outcome After Single-Stage Repair. Annals of Thoracic Surgery, 2015, 100, 1804-1811.	1.3	51
24	A reassessment of tracheal substitutesâ€"a systematic review. Annals of Cardiothoracic Surgery, 2018, 7, 175-182.	1.7	50
25	ExÂvivo non-invasive assessment of cell viability and proliferation in bio-engineered whole organ constructs. Biomaterials, 2015, 52, 103-112.	11.4	46
26	Postintubation Tracheal Stenosis: Management and Results 1993 to 2017. Annals of Thoracic Surgery, 2019, 108, 1471-1477.	1.3	41
27	Design and validation of a clinical-scale bioreactor for long-term isolated lung culture. Biomaterials, 2015, 52, 79-87.	11.4	38
28	Human-scale lung regeneration based on decellularized matrix scaffolds as a biologic platform. Surgery Today, 2020, 50, 633-643.	1.5	35
29	Bioengineering Lungs for Transplantation. Thoracic Surgery Clinics, 2016, 26, 163-171.	1.0	32
30	Creation of a Bioengineered Skin Flap Scaffold with a Perfusable Vascular Pedicle. Tissue Engineering - Part A, 2017, 23, 696-707.	3.1	32
31	Image-guided Preoperative Localization of Pulmonary Nodules for Video-assisted and Robotically Assisted Surgery. Radiographics, 2019, 39, 1264-1279.	3.3	32
32	Complications Following Carinal Resections and Sleeve Resections. Thoracic Surgery Clinics, 2015, 25, 435-447.	1.0	31
33	Carinal surgery: A single-institution experience spanning 2Âdecades. Journal of Thoracic and Cardiovascular Surgery, 2019, 157, 2073-2083.e1.	0.8	29
34	Assessment of Proliferation and Cytotoxicity in a Biomimetic Three-Dimensional Model of Lung Cancer. Annals of Thoracic Surgery, 2015, 100, 414-421.	1.3	25
35	Human iPS-derived pre-epicardial cells direct cardiomyocyte aggregation expansion and organization in vitro. Nature Communications, 2021, 12, 4997.	12.8	21
36	Spray Delivery of Intestinal Organoids to Reconstitute Epithelium on Decellularized Native Extracellular Matrix. Tissue Engineering - Part C: Methods, 2017, 23, 565-573.	2.1	19

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37	Metabolic glycan labeling and chemoselective functionalization of native biomaterials. Biomaterials, 2018, 182, 127-134.	11.4	19
38	Management and outcomes of esophageal perforation. Ecological Management and Restoration, 2022, 35, .	0.4	19
39	Bioengineering Kidneys for Transplantation. Seminars in Nephrology, 2014, 34, 384-393.	1.6	17
40	Creation of Laryngeal Grafts from Primary Human Cells and Decellularized Laryngeal Scaffolds. Tissue Engineering - Part A, 2020, 26, 543-555.	3.1	14
41	From cardiac repair to cardiac regeneration â€“ ready to translate?. Expert Opinion on Biological Therapy, 2006, 6, 867-878.	3.1	13
42	A Fully Automated High-Throughput Bioreactor System for Lung Regeneration. Tissue Engineering - Part C: Methods, 2018, 24, 671-678.	2.1	12
43	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.	1.4	12
44	Preclinical quantification of air leaks in a physiologic lung model: effects of ventilation modality and staple design. Medical Devices: Evidence and Research, 2018, Volume 11, 433-442.	0.8	11
45	E-Cigarette Use, Small Airway Fibrosis, and Constrictive Bronchiolitis. , 2022, 1, .		11
46	Can We Re-Engineer the Endocrine Pancreas?. Current Diabetes Reports, 2018, 18, 122.	4.2	10
47	Feasibility of Perioperative Microâ€“Computed Tomography of Human Lung Cancer Specimens: A Pilot Study. Archives of Pathology and Laboratory Medicine, 2019, 143, 319-325.	2.5	10
48	Orthotopic Transplantation of Human Bioartificial Lung Grafts in a Porcine Model: A Feasibility Study. Seminars in Thoracic and Cardiovascular Surgery, 2022, 34, 752-759.	0.6	10
49	Engineering tissues for children: building grafts that grow. Lancet, The, 2012, 380, 957-958.	13.7	9
50	Bioartificial tissues and organs: are we ready to translate?. Lancet, The, 2011, 378, 1977-1978.	13.7	8
51	Pulmonary Artery Resection During Lung Resection for Malignancy. Annals of Thoracic Surgery, 2019, 108, 1692-1700.	1.3	5
52	Bioprosthetics and repair of complex aerodigestive defects. Annals of Cardiothoracic Surgery, 2018, 7, 284-292.	1.7	4
53	Evaluation of Release Maneuvers After Airway Reconstruction. Annals of Thoracic Surgery, 2022, 113, 406-412.	1.3	4
54	Preoperative CT-guided Fiducial Marker Placement for Surgical Localization of Pulmonary Nodules. Radiology: Cardiothoracic Imaging, 2022, 4, .	2.5	4

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55	CTâ€“Guided Thoracic Duct Embolization. Journal of Vascular and Interventional Radiology, 2016, 27, 1753-1755.	0.5	3
56	Engineering Bioartificial Lungs for Transplantation. Current Stem Cell Reports, 2017, 3, 55-67.	1.6	3
57	Bioprinting Organsâ€”Progress Toward a Moonshot Idea. Transplantation, 2020, 104, 1310-1311.	1.0	3
58	Protease inhibitor Camostat Mesyalte blocks wild type SARS-CoV-2 and D614G viral entry in human engineered miniature lungs. Biomaterials, 2022, 285, 121509.	11.4	3
59	High-Throughput Culture Method of Induced Pluripotent Stem Cell-Derived Alveolar Epithelial Cells. Tissue Engineering - Part C: Methods, 2021, 27, 639-648.	2.1	2
60	Reply to: Endobronchial Optical Coherence Tomography: Shining New Light on Diagnosing UIP?. American Journal of Respiratory and Critical Care Medicine, 2022, , .	5.6	2
61	Regenerative Medicine of the Respiratory Tract. , 2019, , 1059-1072.		1
62	Intralipid improves oxygenation after orthotopic rat lung transplantation. Journal of Heart and Lung Transplantation, 2019, 38, 225-227.	0.6	1
63	Characterization of an elastase-induced emphysema model in immune-deficient rats. European Journal of Cardio-thoracic Surgery, 2021, 59, 309-315.	1.4	1
64	Invited Commentary. Annals of Surgery, 2021, Publish Ahead of Print, .	4.2	1
65	Programmed Death Ligand 1 and Immune Cell Infiltrates in Solitary Fibrous Tumors of the Pleura. Annals of Thoracic Surgery, 2020, 112, 1862-1869.	1.3	1
66	Angiotensin system inhibitors during induction chemotherapy for esophageal adenocarcinoma: Analysis of survival.. Journal of Clinical Oncology, 2018, 36, e16066-e16066.	1.6	1
67	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.	1.6	1
68	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.	1.6	1
69	Invited commentary. Annals of Thoracic Surgery, 2007, 84, 1727-1728.	1.3	0
70	Invited Commentary. Annals of Thoracic Surgery, 2013, 96, 1056.	1.3	0
71	Organ transplantation: Lung repair via cross-circulation. Nature Biomedical Engineering, 2017, 1, .	22.5	0
72	Extended Biomimetic Culture and Functional Assessment of Recellularized Human Lungs. FASEB Journal, 2015, 29, 1029.18.	0.5	0