

Darcy E Wagner

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,845
citations

117619

34
h-index

138468

58
g-index

108
all docs

108
docs citations

108
times ranked

5555
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased expression of ORMDL3 in allergic asthma: a case control and in vitro study. Journal of Asthma, 2023, 60, 458-467.	1.7	3
2	Bioengineering Approaches for the Distal Lung. , 2022, , 788-795.		0
3	KRAS signaling in malignant pleural mesothelioma. EMBO Molecular Medicine, 2022, 14, e13631.	6.9	12
4	Allergic inflammation in lungs and nasal epithelium of rat model is regulated by tissue-specific miRNA expression. Molecular Immunology, 2022, 147, 115-125.	2.2	4
5	Corticotropin releasing hormone as an identifier of bronchiolitis obliterans syndrome. Scientific Reports, 2022, 12, 8413.	3.3	2
6	A Biomimetic, Copolymeric Membrane for Cell Stretch Experiments with Pulmonary Epithelial Cells at the Air-Liquid Interface. Advanced Functional Materials, 2021, 31, 2004707.	14.9	28
7	Extracellular Matrix-Reinforced Bioinks for 3D Bioprinting Human Tissue. Advanced Materials, 2021, 33, e2005476.	21.0	142
8	Isolation of high-yield and -quality RNA from human precision-cut lung slices for RNA-sequencing and computational integration with larger patient cohorts. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L232-L240.	2.9	16
9	Toxicological effects of zinc oxide nanoparticle exposure: an in vitro comparison between dry aerosol air-liquid interface and submerged exposure systems. Nanotoxicology, 2021, 15, 494-510.	3.0	11
10	Lung tissue bioengineering for transplantation and modelling of development, disease and regeneration. , 2021, , 248-272.		2
11	Monitoring lung injury with particle flow rate in LPS and COVID-19 induced ARDS. Physiological Reports, 2021, 9, e14802.	1.7	6
12	The dawn of the omics era in human precision-cut lung slices. European Respiratory Journal, 2021, 58, 2100203.	6.7	4
13	A drug screen with approved compounds identifies amlexanox as a novel Wnt/ β -catenin activator inducing lung epithelial organoid formation. British Journal of Pharmacology, 2021, 178, 4026-4041.	5.4	10
14	Lung transplant after 6 months on ECMO support for SARS-CoV-2-induced ARDS complicated by severe antibody-mediated rejection. BMJ Open Respiratory Research, 2021, 8, e001036.	3.0	11
15	Targeting Alveolar Repair in Idiopathic Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 347-365.	2.9	29
16	LSC - 2021 - 3D printing aids simultaneous isolation of proximal and distal lung epithelial progenitors from individual mice. , 2021, , .		0
17	LSC - 2021 - Modeling idiopathic pulmonary fibrosis using induced pluripotent stem cell-derived alveolar epithelial organoids. , 2021, , .		0
18	LSC - 2021 - Lung-on-a-chip device for modelling of ventilator induced lung injury. , 2021, , .		0

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19	LSC - 2021 - Decellularized extracellular matrix hydrogels for human airway organoid culture. , 2021, , .		0
20	Lung regeneration: implications of the diseased niche and ageing. European Respiratory Review, 2020, 29, 200222.	7.1	18
21	Organâ€Restricted Vascular Delivery: Organâ€Restricted Vascular Delivery of Nanoparticles for Lung Cancer Therapy (Adv. Therap. 7/2020). Advanced Therapeutics, 2020, 3, 2070016.	3.2	0
22	Mechanically ventilated patients exhibit decreased particle flow in exhaled breath as compared to normal breathing patients. ERJ Open Research, 2020, 6, 00198-2019.	2.6	6
23	Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Disease 2019. ERJ Open Research, 2020, 6, 00123-2020.	2.6	2
24	Fostering the integration of basic respiratory science and translational pulmonary medicine for the future. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L538-L540.	2.9	3
25	Inhibition of LTÎ²R signalling activates WNT-induced regeneration in lung. Nature, 2020, 588, 151-156.	27.8	81
26	Organâ€Restricted Vascular Delivery of Nanoparticles for Lung Cancer Therapy. Advanced Therapeutics, 2020, 3, 2000017.	3.2	7
27	Collagen IV: a critical new starting point for engineering upper airways. European Respiratory Journal, 2020, 55, 2001130.	6.7	3
28	Increased particle flow rate from airways precedes clinical signs of ARDS in a porcine model of LPS-induced acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L510-L517.	2.9	16
29	Applications and Approaches for Three-Dimensional Precision-Cut Lung Slices. Disease Modeling and Drug Discovery. American Journal of Respiratory Cell and Molecular Biology, 2020, 62, 681-691.	2.9	79
30	Clickable decellularized extracellular matrix as a new tool for building hybrid-hydrogels to model chronic fibrotic diseases <i>in vitro</i>. Journal of Materials Chemistry B, 2020, 8, 6814-6826.	5.8	64
31	Technological advances in study of lung regenerative medicine:perspective from the 2019 Vermont lung stem cell conference. Cytotherapy, 2020, 22, 519-520.	0.7	6
32	ECM-alginate microcarriers for alveolar regeneration in COPD. , 2020, , .		0
33	Exhaled breath particles - a potential noninvasive method to detect and monitor chronic allograft dysfunction in lung transplant recipients. , 2020, , .		0
34	Evolution of Bioengineered Lung Models: Recent Advances and Challenges in Tissue Mimicry for Studying the Role of Mechanical Forces in Cell Biology. Advanced Functional Materials, 2019, 29, 1903114.	14.9	40
35	The Oncogene ECT2 Contributes to a Hyperplastic, Proliferative Lung Epithelial Cell Phenotype in Idiopathic Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 713-726.	2.9	15
36	Translating Basic Research into Safe and Effective Cell-based Treatments for Respiratory Diseases. Annals of the American Thoracic Society, 2019, 16, 657-668.	3.2	23

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37	Generation of Human 3D Lung Tissue Cultures (3D-LTCs) for Disease Modeling. Journal of Visualized Experiments, 2019, , .	0.3	24
38	The Preparation of Decellularized Mouse Lung Matrix Scaffolds for Analysis of Lung Regenerative Cell Potential. Methods in Molecular Biology, 2019, 1940, 275-295.	0.9	12
39	Preclinical Evidence for the Role of Stem/Stromal Cells in COPD. , 2019, , 73-96.		1
40	Particle Flow Profiles From the Airways Measured by PExA Differ in Lung Transplant Recipients Who Develop Primary Graft Dysfunction. Experimental and Clinical Transplantation, 2019, 17, 803-818.	0.5	6
41	Club cells form lung adenocarcinomas and maintain the alveoli of adult mice. ELife, 2019, 8, .	6.0	46
42	High-Throughput Drug Screening of ECM Deposition Inhibitors for Antifibrotic Drug Discovery. Pneumologie, 2019, 73, .	0.1	0
43	Late Breaking Abstract - 3D Bioprinting of Decellularised Porcine Lung ECM. , 2019, , .		1
44	Two succeeding fibroblastic lineages drive dermal development and the transition from regeneration to scarring. Nature Cell Biology, 2018, 20, 422-431.	10.3	119
45	A new way of monitoring mechanical ventilation by measurement of particle flow from the airways using Pexa method in vivo and during ex vivo lung perfusion in DCD lung transplantation. Intensive Care Medicine Experimental, 2018, 6, 18.	1.9	11
46	Differential effects of Nintedanib and Pirfenidone on lung alveolar epithelial cell function in ex vivo murine and human lung tissue cultures of pulmonary fibrosis. Respiratory Research, 2018, 19, 175.	3.6	90
47	Co-opting of ClinicalTrials.gov by patient-funded studies. Lancet Respiratory Medicine,the, 2018, 6, 579-581.	10.7	21
48	Avian lungs: A novel scaffold for lung bioengineering. PLoS ONE, 2018, 13, e0198956.	2.5	5
49	Increased Extracellular Vesicles Mediate WNT5A Signaling in Idiopathic Pulmonary Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1527-1538.	5.6	127
50	S100a4 Is Secreted by Alternatively Activated Alveolar Macrophages and Promotes Activation of Lung Fibroblasts in Pulmonary Fibrosis. Frontiers in Immunology, 2018, 9, 1216.	4.8	64
51	Dynamic expression of HOPX in alveolar epithelial cells reflects injury and repair during the progression of pulmonary fibrosis. Scientific Reports, 2018, 8, 12983.	3.3	38
52	TGF- β 1-induced deposition of provisional extracellular matrix by tracheal basal cells promotes epithelial-to-mesenchymal transition in a c-Jun NH ₂ -terminal kinase-1-dependent manner. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 314, L984-L997.	2.9	25
53	How to build a lung: latest advances and emerging themes in lung bioengineering. European Respiratory Journal, 2018, 52, 1601355.	6.7	51
54	Acellular human lung scaffolds to model lung disease and tissue regeneration. European Respiratory Review, 2018, 27, 180021.	7.1	66

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55	Human Pulmonary 3D Models For Translational Research. Biotechnology Journal, 2018, 13, 1700341.	3.5	50
56	Development of a hybrid alginate-ECM hydrogel as a potential bioink for 3D bioprinting. , 2018, , .		3
57	Novel compounds for WNT/Ā-catenin induced lung repair in chronic obstructive pulmonary disease. , 2018, , .		0
58	Reduced Frizzled Receptor 4 Expression Prevents WNT/Ā-CateninĀ-driven Alveolar Lung Repair in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 172-185.	5.6	85
59	Unproven Stem Cell Treatments for Lung DiseaseĀAn Emerging Public Health Problem. American Journal of Respiratory and Critical Care Medicine, 2017, 195, P13-P14.	5.6	15
60	An ex vivo model to induce early fibrosis-like changes in human precision-cut lung slices. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L896-L902.	2.9	144
61	Heterozygous <i>Vangl2</i> <i>Looptail</i> mice reveal novel roles for the planar cell polarity pathway in adult lung homeostasis and repair. DMM Disease Models and Mechanisms, 2017, 10, 409-423.	2.4	31
62	Noncanonical WNT-5A signaling impairs endogenous lung repair in COPD. Journal of Experimental Medicine, 2017, 214, 143-163.	8.5	122
63	Preparation of Decellularized Lung Matrices for Cell Culture and Protein Analysis. Methods in Molecular Biology, 2017, 1627, 253-283.	0.9	29
64	Senolytic drugs targetĀalveolar epithelial cell function and attenuate experimental lung fibrosis<i>ex vivo</i>. European Respiratory Journal, 2017, 50, 1602367.	6.7	267
65	Early Career Members at the ERS LSC 2017: mechanistic overlap between chronic lung injury and cancer. Breathe, 2017, 13, 323-326.	1.3	1
66	LSC - 2017 - Hippo-YAP/TAZ signaling is deranged in IPF. , 2017, , .		0
67	Decreased Laminin Expression by Human Lung Epithelial Cells and Fibroblasts Cultured in Acellular Lung Scaffolds from Aged Mice. PLoS ONE, 2016, 11, e0150966.	2.5	56
68	WISP1 mediates IL-6-dependent proliferation in primary human lung fibroblasts. Scientific Reports, 2016, 6, 20547.	3.3	50
69	A Computational Model of Cellular Engraftment on Lung Scaffolds. BioResearch Open Access, 2016, 5, 308-319.	2.6	6
70	Residual Detergent Detection Method for Nondestructive Cytocompatibility Evaluation of Decellularized Whole Lung Scaffolds. Tissue Engineering - Part C: Methods, 2016, 22, 418-428.	2.1	58
71	CD11b+ and Sca-1+ Cells Exert the Main Beneficial Effects of Systemically Administered Bone Marrow-Derived Mononuclear Cells in a Murine Model of Mixed Th2/Th17 Allergic Airway Inflammation. Stem Cells Translational Medicine, 2016, 5, 488-499.	3.3	27
72	Linking bronchopulmonary dysplasia to adult chronic lung diseases: role of WNT signaling. Molecular and Cellular Pediatrics, 2016, 3, 34.	1.8	39

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73	The Global Emergence of Unregulated Stem Cell Treatments for Respiratory Diseases. Professional Societies Need to Act. <i>Annals of the American Thoracic Society</i> , 2016, 13, 1205-1207.	3.2	28
74	Comparative Decellularization and Recellularization of Wild-Type and Alpha 1,3 Galactosyltransferase Knockout Pig Lungs: A Model for <i>Ex Vivo</i> Xenogeneic Lung Bioengineering and Transplantation. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 725-739.	2.1	40
75	Impairment of Immunoproteasome Function by Cigarette Smoke and in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 1230-1241.	5.6	42
76	Freshly Thawed and Continuously Cultured Human Bone Marrow-Derived Mesenchymal Stromal Cells Comparably Ameliorate Allergic Airways Inflammation in Immunocompetent Mice. <i>Stem Cells Translational Medicine</i> , 2015, 4, 615-624.	3.3	71
77	Systemic Administration of Human Bone Marrow-Derived Mesenchymal Stromal Cell Extracellular Vesicles Ameliorates <i>Aspergillus</i> Hyphal Extract-Induced Allergic Airway Inflammation in Immunocompetent Mice. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1302-1316.	3.3	191
78	Preclinical validation and imaging of Wnt-induced repair in human 3D lung tissue cultures. <i>European Respiratory Journal</i> , 2015, 46, 1150-1166.	6.7	132
79	<i>Ex Vivo</i> Lung Bioengineering. <i>Pancreatic Islet Biology</i> , 2015, , 145-180.	0.3	2
80	Acellular Lung Scaffolds in Lung Bioengineering. <i>Pancreatic Islet Biology</i> , 2015, , 309-347.	0.3	1
81	Tumor-propagating cells and Yap/Taz activity contribute to lung tumor progression and metastasis. <i>EMBO Journal</i> , 2014, 33, 468-481.	7.8	181
82	Tumor-propagating cells and Yap/Taz activity contribute to lung tumor progression and metastasis. <i>EMBO Journal</i> , 2014, 33, 1502-1502.	7.8	4
83	Design and Synthesis of an Artificial Pulmonary Pleura for High Throughput Studies in Acellular Human Lungs. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 184-195.	2.1	34
84	Comparative decellularization and recellularization of normal versus emphysematous human lungs. <i>Biomaterials</i> , 2014, 35, 3281-3297.	11.4	149
85	Three-dimensional scaffolds of acellular human and porcine lungs for high throughput studies of lung disease and regeneration. <i>Biomaterials</i> , 2014, 35, 2664-2679.	11.4	137
86	Cytocompatibility evaluation of microwave sintered biphasic calcium phosphate scaffolds synthesized using pH control. <i>Materials Science and Engineering C</i> , 2013, 33, 1710-1719.	7.3	20
87	The effects of storage and sterilization on de-cellularized and re-cellularized whole lung. <i>Biomaterials</i> , 2013, 34, 3231-3245.	11.4	79
88	A microwave-assisted solution combustion synthesis to produce europium-doped calcium phosphate nanowhiskers for bioimaging applications. <i>Acta Biomaterialia</i> , 2013, 9, 8422-8432.	8.3	64
89	The effect of age and emphysematous and fibrotic injury on the re-cellularization of de-cellularized lungs. <i>Biomaterials</i> , 2013, 34, 3256-3269.	11.4	93
90	Can stem cells be used to generate new lungs? <i>Ex vivo</i> lung bioengineering with decellularized whole lung scaffolds. <i>Respirology</i> , 2013, 18, 895-911.	2.3	103

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91	Microwave-assisted solution combustion synthesis of high aspect ratio calcium phosphate nanoparticles. Journal of Materials Research, 2013, 28, 3119-3129.	2.6	7
92	Progress and Outlook of Inorganic Nanoparticles for Delivery of Nucleic Acid Sequences Related to Orthopedic Pathologies: A Review. Tissue Engineering - Part B: Reviews, 2012, 18, 1-14.	4.8	19
93	Heat transfer in laminar flows of extended modified power law fluids in rectangular ducts. International Journal of Heat and Mass Transfer, 2010, 53, 558-563.	4.8	14