

Steven C George

List of Publications by Year in descending order

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145
papers

9,990
citations

36303

51
h-index

38395

95
g-index

159
all docs

159
docs citations

159
times ranked

11105
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-compartment model of pulmonary nitric oxide exchange dynamics. <i>Journal of Applied Physiology</i> , 1998, 85, 653-666.	2.5	425
2	Exhaled Nitric Oxide in Pulmonary Diseases. <i>Chest</i> , 2010, 138, 682-692.	0.8	347
3	<i>In Vitro</i> Perfused Human Capillary Networks. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 730-737.	2.1	337
4	Noninvasive Assessment of Collagen Gel Microstructure and Mechanics Using Multiphoton Microscopy. <i>Biophysical Journal</i> , 2007, 92, 2212-2222.	0.5	321
5	Diffusion Limits of an <i>In Vitro</i> Thick Prevascularized Tissue. <i>Tissue Engineering</i> , 2005, 11, 257-266.	4.6	314
6	3D microtumors in vitro supported by perfused vascular networks. <i>Scientific Reports</i> , 2016, 6, 31589.	3.3	301
7	Concise Review: Maturation Phases of Human Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Stem Cells</i> , 2013, 31, 829-837.	3.2	290
8	Prevascularization of a Fibrin-Based Tissue Construct Accelerates the Formation of Functional Anastomosis with Host Vasculature. <i>Tissue Engineering - Part A</i> , 2009, 15, 1363-1371.	3.1	270
9	A vascularized and perfused organ-on-a-chip platform for large-scale drug screening applications. <i>Lab on A Chip</i> , 2017, 17, 511-520.	6.0	250
10	The Effect of Matrix Density on the Regulation of 3-D Capillary Morphogenesis. <i>Biophysical Journal</i> , 2008, 94, 1930-1941.	0.5	234
11	Modeling pulmonary nitric oxide exchange. <i>Journal of Applied Physiology</i> , 2004, 96, 831-839.	2.5	227
12	Personal and Ambient Air Pollution is Associated with Increased Exhaled Nitric Oxide in Children with Asthma. <i>Environmental Health Perspectives</i> , 2006, 114, 1736-1743.	6.0	209
13	Mesenchymal Stem Cells Enhance Angiogenesis in Mechanically Viable Prevascularized Tissues via Early Matrix Metalloproteinase Upregulation. <i>Tissue Engineering</i> , 2006, 12, 2875-2888.	4.6	204
14	Engineering anastomosis between living capillary networks and endothelial cell-lined microfluidic channels. <i>Lab on A Chip</i> , 2016, 16, 282-290.	6.0	197
15	Tumor-on-a-chip platform to investigate progression and drug sensitivity in cell lines and patient-derived organoids. <i>Lab on A Chip</i> , 2018, 18, 3687-3702.	6.0	193
16	Relating small airways to asthma control by using impulse oscillometry in children. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 129, 671-678.	2.9	181
17	Rapid Anastomosis of Endothelial Progenitor Cell-Derived Vessels with Host Vasculature Is Promoted by a High Density of Cotransplanted Fibroblasts. <i>Tissue Engineering - Part A</i> , 2010, 16, 585-594.	3.1	178
18	A microfluidic platform for generating large-scale nearly identical human microphysiological vascularized tissue arrays. <i>Lab on A Chip</i> , 2013, 13, 2990.	6.0	175

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19	A three-dimensional in vitro model of tumor cell intravasation. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 603.	1.3	172
20	Image Correlation Spectroscopy of Multiphoton Images Correlates with Collagen Mechanical Properties. <i>Biophysical Journal</i> , 2008, 94, 2361-2373.	0.5	168
21	Associations of Primary and Secondary Organic Aerosols With Airway and Systemic Inflammation in an Elderly Panel Cohort. <i>Epidemiology</i> , 2010, 21, 892-902.	2.7	160
22	A simple technique to characterize proximal and peripheral nitric oxide exchange using constant flow exhalations and an axial diffusion model. <i>Journal of Applied Physiology</i> , 2007, 102, 417-425.	2.5	156
23	Mesenchymal cells stimulate capillary morphogenesis via distinct proteolytic mechanisms. <i>Experimental Cell Research</i> , 2010, 316, 813-825.	2.6	151
24	Peripheral airway impairment measured by oscillometry predicts loss of asthma control in children. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 131, 718-723.	2.9	135
25	Predicting bulk mechanical properties of cellularized collagen gels using multiphoton microscopy. <i>Acta Biomaterialia</i> , 2010, 6, 4657-4665.	8.3	120
26	Full range physiological mass transport control in 3D tissue cultures. <i>Lab on A Chip</i> , 2013, 13, 81-89.	6.0	112
27	Single-exhalation profiles of NO and CO ₂ in humans: effect of dynamically changing flow rate. <i>Journal of Applied Physiology</i> , 1998, 85, 642-652.	2.5	109
28	Three-Dimensional Adult Cardiac Extracellular Matrix Promotes Maturation of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Tissue Engineering - Part A</i> , 2016, 22, 1016-1025.	3.1	109
29	ATS Workshop Proceedings: Exhaled Nitric Oxide and Nitric Oxide Oxidative Metabolism in Exhaled Breath Condensate. <i>Proceedings of the American Thoracic Society</i> , 2006, 3, 131-145.	3.5	104
30	Matrix Metalloproteinase Control of Capillary Morphogenesis. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2008, 18, 251-278.	0.9	104
31	Blood-brain barrier-on-a-chip: Microphysiological systems that capture the complexity of the blood-central nervous system interface. <i>Experimental Biology and Medicine</i> , 2017, 242, 1669-1678.	2.4	92
32	A single-breath technique with variable flow rate to characterize nitric oxide exchange dynamics in the lungs. <i>Journal of Applied Physiology</i> , 2001, 91, 477-487.	2.5	89
33	Measurement of IL-13-Induced iNOS-Derived Gas Phase Nitric Oxide in Human Bronchial Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 97-104.	2.9	87
34	Angiogenic sprouting is regulated by endothelial cell expression of Slug (Snai2). <i>Journal of Cell Science</i> , 2014, 127, 2017-28.	2.0	85
35	Low levels of physiological interstitial flow eliminate morphogen gradients and guide angiogenesis. <i>Angiogenesis</i> , 2017, 20, 493-504.	7.2	81
36	Cancer-associated fibroblasts support vascular growth through mechanical force. <i>Scientific Reports</i> , 2017, 7, 12574.	3.3	80

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37	In Vivo Control of Soluble Guanylate Cyclase Activation by Nitric Oxide: A Kinetic Analysis. <i>Biophysical Journal</i> , 2001, 80, 2110-2119.	0.5	79
38	Human Induced Pluripotent Stem Cell-Derived Endothelial Cells for Three-Dimensional Microphysiological Systems. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 474-484.	2.1	75
39	Epithelial-derived TGF- β 2 modulates basal and wound-healing subepithelial matrix homeostasis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 291, L1277-L1285.	2.9	69
40	Airway Epithelium Stimulates Smooth Muscle Proliferation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 297-304.	2.9	69
41	Engineering Vascularized Organoid-on-a-Chip Models. <i>Annual Review of Biomedical Engineering</i> , 2021, 23, 141-167.	12.3	67
42	Synergistic Cytokine-Induced Nitric Oxide Production in Human Alveolar Epithelial Cells. <i>Nitric Oxide - Biology and Chemistry</i> , 1999, 3, 348-357.	2.7	65
43	Two-Photon Laser Scanning Microscopy of Epithelial Cell-Modulated Collagen Density in Engineered Human Lung Tissue. <i>Tissue Engineering</i> , 2001, 7, 191-202.	4.6	64
44	Impact of axial diffusion on nitric oxide exchange in the lungs. <i>Journal of Applied Physiology</i> , 2002, 93, 2070-2080.	2.5	62
45	High-resolution transcriptional and morphogenetic profiling of cells from micropatterned human ESC gastruloid cultures. <i>ELife</i> , 2020, 9, .	6.0	62
46	Evaluation of Different Decellularization Protocols on the Generation of Pancreas-Derived Hydrogels. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 697-708.	2.1	60
47	Biomaterials to Prevascularize Engineered Tissues. <i>Journal of Cardiovascular Translational Research</i> , 2011, 4, 685-698.	2.4	59
48	Clinical patterns in asthma based on proximal and distal airway nitric oxide categories. <i>Respiratory Research</i> , 2010, 11, 47.	3.6	57
49	Tumor-on-chip modeling of organ-specific cancer and metastasis. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113798.	13.7	57
50	Microfluidic device to control interstitial flow-mediated homotypic and heterotypic cellular communication. <i>Lab on A Chip</i> , 2015, 15, 3521-3529.	6.0	56
51	Tissue engineering the cardiac microenvironment: Multicellular microphysiological systems for drug screening. <i>Advanced Drug Delivery Reviews</i> , 2016, 96, 225-233.	13.7	56
52	Partitioned exhaled nitric oxide to non-invasively assess asthma. <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 166-177.	1.6	55
53	Theory and practical recommendations for autocorrelation-based image correlation spectroscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 080801.	2.6	54
54	BMP9 induces EphrinB2 expression in endothelial cells through an Alk1-BMPRII/ActRII-ID1/ID3-dependent pathway: implications for hereditary hemorrhagic telangiectasia type II. <i>Angiogenesis</i> , 2012, 15, 497-509.	7.2	54

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55	An integrated in vitro model of perfused tumor and cardiac tissue. <i>Stem Cell Research and Therapy</i> , 2013, 4, S15.	5.5	54
56	Human Induced Pluripotent Stem-Cardiac-Endothelial-Tumor-on-a-Chip to Assess Anticancer Efficacy and Cardiotoxicity. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 44-55.	2.1	54
57	Developing a tissue-engineered model of the human bronchiole. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 619-627.	2.7	52
58	IL-13 induces a bronchial epithelial phenotype that is profibrotic. <i>Respiratory Research</i> , 2008, 9, 27.	3.6	51
59	Tissue Engineering the Vascular Tree. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 505-514.	4.8	49
60	Longitudinal In Vivo Imaging to Assess Blood Flow and Oxygenation in Implantable Engineered Tissues. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 697-709.	2.1	46
61	Optical Imaging Predicts Mechanical Properties During Decellularization of Cardiac Tissue. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 802-809.	2.1	46
62	Nitric oxide gas phase release in human small airway epithelial cells. <i>Respiratory Research</i> , 2009, 10, 3.	3.6	45
63	A strategy for integrating essential three-dimensional microphysiological systems of human organs for realistic anticancer drug screening. <i>Experimental Biology and Medicine</i> , 2014, 239, 1240-1254.	2.4	45
64	Microfluidic device to attain high spatial and temporal control of oxygen. <i>PLoS ONE</i> , 2018, 13, e0209574.	2.5	43
65	Randomly Distributed K14+ Breast Tumor Cells Polarize to the Leading Edge and Guide Collective Migration in Response to Chemical and Mechanical Environmental Cues. <i>Cancer Research</i> , 2019, 79, 1899-1912.	0.9	43
66	Grand Challenges in Interfacing Engineering With Life Sciences and Medicine. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 589-598.	4.2	42
67	Label-free imaging of metabolism and oxidative stress in human induced pluripotent stem cell-derived cardiomyocytes. <i>Biomedical Optics Express</i> , 2016, 7, 1690.	2.9	41
68	A combined hiPSC-derived endothelial cell and in vitro microfluidic platform for assessing biomaterial-based angiogenesis. <i>Biomaterials</i> , 2019, 194, 73-83.	11.4	41
69	Airway diffusing capacity of nitric oxide and steroid therapy in asthma. <i>Journal of Applied Physiology</i> , 2004, 96, 65-75.	2.5	41
70	Flow-independent Nitric Oxide Exchange Parameters in Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 349-357.	5.6	39
71	Modeling trastuzumab-related cardiotoxicity in vitro using human stem cell-derived cardiomyocytes. <i>Toxicology Letters</i> , 2018, 285, 74-80.	0.8	39
72	Implanted Cell-Dense Prevascularized Tissues Develop Functional Vasculature That Supports Reoxygenation After Thrombosis. <i>Tissue Engineering - Part A</i> , 2014, 20, 2316-2328.	3.1	38

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73	The Effect of Hypoxia on <i>In Vitro</i> Prevascularization of a Thick Soft Tissue. <i>Tissue Engineering - Part A</i> , 2009, 15, 2423-2434.	3.1	37
74	An on-chip microfluidic pressure regulator that facilitates reproducible loading of cells and hydrogels into microphysiological system platforms. <i>Lab on A Chip</i> , 2016, 16, 868-876.	6.0	37
75	Tumor-on-a-chip platform to interrogate the role of macrophages in tumor progression. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 221-232.	1.3	37
76	Organ-on-a-chip model of vascularized human bone marrow niches. <i>Biomaterials</i> , 2022, 280, 121245.	11.4	37
77	Nonsteady State Oxygen Transport in Engineered Tissue: Implications for Design. <i>Tissue Engineering - Part A</i> , 2013, 19, 1433-1442.	3.1	36
78	Modeling bronchial circulation with application to soluble gas exchange: description and sensitivity analysis. <i>Journal of Applied Physiology</i> , 1998, 84, 2070-2088.	2.5	33
79	Mechanisms of Synergistic Cytokine-Induced Nitric Oxide Production in Human Alveolar Epithelial Cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2001, 5, 534-546.	2.7	32
80	Increased Nitric Oxide Concentrations in the Small Airway of Older Normal Subjects. <i>Chest</i> , 2011, 139, 368-375.	0.8	32
81	Machine learning plus optical flow: a simple and sensitive method to detect cardioactive drugs. <i>Scientific Reports</i> , 2015, 5, 11817.	3.3	32
82	Probing the impact of axial diffusion on nitric oxide exchange dynamics with heliox. <i>Journal of Applied Physiology</i> , 2004, 97, 874-882.	2.5	31
83	Peripheral nitric oxide is increased in rhinitic patients with asthma compared to bronchial hyperresponsiveness. <i>Respiratory Medicine</i> , 2007, 101, 2321-2326.	2.9	30
84	Central and peripheral airway/alveolar sites of exhaled nitric oxide in acute asthma. <i>Thorax</i> , 2010, 65, 619-625.	5.6	29
85	Patient-derived small intestinal myofibroblasts direct perfused, physiologically responsive capillary development in a microfluidic Gut-on-a-Chip Model. <i>Scientific Reports</i> , 2020, 10, 3842.	3.3	29
86	Automated computation of functional vascular density using laser speckle imaging in a rodent window chamber model. <i>Microvascular Research</i> , 2011, 82, 92-95.	2.5	28
87	Supervised Machine Learning for Classification of the Electrophysiological Effects of Chronotropic Drugs on Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2015, 10, e0144572.	2.5	28
88	Flow-independent nitric oxide exchange parameters in healthy adults. <i>Journal of Applied Physiology</i> , 2001, 91, 2173-2181.	2.5	27
89	Microscopic modeling of NO and <i>S</i> -nitrosoglutathione kinetics and transport in human airways. <i>Journal of Applied Physiology</i> , 2001, 90, 777-788.	2.5	27
90	Effect of heterogeneous ventilation and nitric oxide production on exhaled nitric oxide profiles. <i>Journal of Applied Physiology</i> , 2008, 104, 1743-1752.	2.5	27

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91	Airway nitric oxide release is reduced after PBS inhalation in asthma. <i>Journal of Applied Physiology</i> , 2007, 102, 1028-1033.	2.5	26
92	A novel three-dimensional model to quantify metastatic melanoma invasion. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 552-561.	4.1	25
93	An elevated bronchodilator response predicts large airway inflammation in mild asthma. <i>Pediatric Pulmonology</i> , 2010, 45, 174-181.	2.0	25
94	Examining axial diffusion of nitric oxide in the lungs using heliox and breath hold. <i>Journal of Applied Physiology</i> , 2006, 100, 623-630.	2.5	24
95	Modeling the concentration of ethanol in the exhaled breath following pretest breathing maneuvers. <i>Annals of Biomedical Engineering</i> , 1995, 23, 48-60.	2.5	23
96	Linking optics and mechanics in an in vivo model of airway fibrosis and epithelial injury. <i>Journal of Biomedical Optics</i> , 2010, 15, 015004.	2.6	23
97	Effect of alveolar volume and sequential filling on the diffusing capacity of the lungs: II. Experiment. <i>Respiration Physiology</i> , 2000, 120, 251-271.	2.7	22
98	Characterizing airway and alveolar nitric oxide exchange during tidal breathing using a three-compartment model. <i>Journal of Applied Physiology</i> , 2004, 96, 1832-1842.	2.5	22
99	Inhaled mannitol shifts exhaled nitric oxide in opposite directions in asthmatics and healthy subjects. <i>Respiration Physiology</i> , 2001, 124, 141-150.	2.7	21
100	Impact of High-Intensity Exercise on Nitric Oxide Exchange in Healthy Adults. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 995-1003.	0.4	21
101	A new and more accurate technique to characterize airway nitric oxide using different breath-hold times. <i>Journal of Applied Physiology</i> , 2005, 98, 1869-1877.	2.5	21
102	Review of exhaled nitric oxide in chronic obstructive pulmonary disease. <i>Journal of Breath Research</i> , 2012, 6, 047101.	3.0	21
103	In moderate-to-severe asthma patients monitoring exhaled nitric oxide during exacerbation is not a good predictor of spirometric response to oral corticosteroid. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 129, 1491-1498.	2.9	20
104	A three-dimensional in vitro model of angiogenesis in the airway mucosa. <i>Pulmonary Pharmacology and Therapeutics</i> , 2007, 20, 141-148.	2.6	19
105	Micro-strains in the extracellular matrix induce angiogenesis. <i>Lab on A Chip</i> , 2020, 20, 2776-2787.	6.0	19
106	Exercise-induced bronchoconstriction alters airway nitric oxide exchange in a pattern distinct from spirometry. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R1741-R1748.	1.8	18
107	Investigating in vivo airway wall mechanics during tidal breathing with optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2011, 16, 1.	2.6	18
108	Microfluidic Device to Culture 3D In Vitro Human Capillary Networks. <i>Methods in Molecular Biology</i> , 2013, 1202, 21-27.	0.9	18

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109	Differential \hat{I}^2 Integrin Expression Regulates the Response of Human Lung and Cardiac Fibroblasts to Extracellular Matrix and Its Components. <i>Tissue Engineering - Part A</i> , 2015, 21, 2195-2205.	3.1	18
110	Effect of alveolar volume and sequential filling on the diffusing capacity of the lungs: I. Theory. <i>Respiration Physiology</i> , 2000, 120, 231-249.	2.7	16
111	How accurately should we estimate the anatomical source of exhaled nitric oxide?. <i>Journal of Applied Physiology</i> , 2008, 104, 909-911.	2.5	16
112	TGF- \hat{I}^2 reduces nitric oxide synthase mRNA through a ROCK-dependent pathway in airway epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L361-L367.	2.9	16
113	Local small airway epithelial injury induces global smooth muscle contraction and airway constriction. <i>Journal of Applied Physiology</i> , 2012, 112, 627-637.	2.5	16
114	Vessel network formation in response to intermittent hypoxia is frequency dependent. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 347-350.	2.2	16
115	Quantitative design strategies for fine control of oxygen in microfluidic systems. <i>Lab on A Chip</i> , 2020, 20, 3036-3050.	6.0	16
116	Advances in Modeling the Immune Microenvironment of Colorectal Cancer. <i>Frontiers in Immunology</i> , 2020, 11, 614300.	4.8	16
117	Expression of matrix proteins in an in vitro model of airway remodeling in asthma. <i>Allergy and Asthma Proceedings</i> , 2003, 24, 35-42.	2.2	15
118	Theoretical Gas Phase Mass Transfer Coefficients for Endogenous Gases in the Lungs. <i>Annals of Biomedical Engineering</i> , 1999, 27, 326-339.	2.5	14
119	Impact of analysis interval on the multiple exhalation flow technique to partition exhaled nitric oxide. <i>Pediatric Pulmonology</i> , 2010, 45, 182-191.	2.0	14
120	Airway Gas Exchange and Exhaled Biomarkers. , 2011, 1, 1837-1859.		14
121	Bronchial and alveolar components of exhaled nitric oxide and their relationship. <i>European Respiratory Journal</i> , 2012, 39, 1258-1261.	6.7	12
122	Multiscale analysis of collagen microstructure with generalized image correlation spectroscopy and the detection of tissue prestress. <i>Biomaterials</i> , 2013, 34, 6127-6132.	11.4	12
123	Impact of Volume-Dependent Alveolar Diffusing Capacity on Exhaled Nitric Oxide Concentration. <i>Annals of Biomedical Engineering</i> , 2001, 29, 731-739.	2.5	11
124	Free nitric oxide diffusion in the bronchial microcirculation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2660-H2670.	3.2	11
125	Cut points for Asthma Control Tests in Mexican children in Orange County, California. <i>Annals of Allergy, Asthma and Immunology</i> , 2012, 109, 108-113.	1.0	11
126	Integrating in vitro organ-specific function with the microcirculation. <i>Current Opinion in Chemical Engineering</i> , 2014, 3, 102-111.	7.8	11

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127	3D Anastomosed Microvascular Network Model with Living Capillary Networks and Endothelial Cell-Lined Microfluidic Channels. <i>Methods in Molecular Biology</i> , 2017, 1612, 325-344.	0.9	11
128	Quantifying proximal and distal sources of NO in asthma using a multicompartiment model. <i>Journal of Applied Physiology</i> , 2010, 108, 821-829.	2.5	10
129	Adenosine A ₁ and Prostaglandin E Receptor 3 Receptors Mediate Global Airway Contraction after Local Epithelial Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 48, 299-305.	2.9	7
130	Detection and monitoring of early airway injury effects of half-mustard (2-chloroethylethylsulfide) exposure using high-resolution optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2009, 14, 044037.	2.6	6
131	Mechanical compression attenuates normal human bronchial epithelial wound healing. <i>Respiratory Research</i> , 2009, 10, 9.	3.6	6
132	Modeling gas phase nitric oxide release in lung epithelial cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2011, 25, 275-281.	2.7	6
133	Dynamic Modeling and Simulation of Nitric Oxide Gas Delivery to Pulmonary Arterioles. <i>Annals of Biomedical Engineering</i> , 2002, 30, 946-960.	2.5	4
134	Mechanical analysis of arterial plaques in native geometry with OCT wall motion analysis. <i>Journal of Biomechanics</i> , 2014, 47, 755-758.	2.1	4
135	Mechanical compression attenuates normal human bronchial epithelial wound healing. <i>Respiratory Research</i> , 2009, 10, 5.	3.6	4
136	Building Better Tumor Models: Organoid Systems to Investigate Angiogenesis. <i>Cancer Drug Discovery and Development</i> , 2018, , 117-148.	0.4	2
137	Correlations between second harmonic signal, microstructure, and mechanics of contracting collagen gels. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
138	Age-stratified comparison of large and peripheral airway/alveolar nitric oxide levels in children and young adults. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 132, 1222-1224.	2.9	1
139	Ensemble clustering of phosphoproteomic data identifies differences in protein interactions and cell-cell junction integrity of HER2-overexpressing cells. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 539-547.	1.3	1
140	Angiogenic sprouting is regulated by endothelial cell expression of Slug. <i>Development (Cambridge)</i> , 2014, 141, e1105-e1105.	2.5	1
141	A computational algorithm to assess the physiochemical determinants of T cell receptor dissociation kinetics. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 3473-3481.	4.1	1
142	A molecular dynamics investigation of N-glycosylation effects on T-cell receptor kinetics. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 5614-5623.	3.5	1
143	In silico modeling of nitric oxide production, transport and consumption in the lungs. <i>Drug Discovery Today: Disease Models</i> , 2007, 4, 147-153.	1.2	0
144	In silico modeling of respiratory structure, function, and disease. <i>Drug Discovery Today: Disease Models</i> , 2007, 4, 123-124.	1.2	0

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145	Mesenchymal Stem Cells Enhance Angiogenesis in Mechanically Viable Prevascularized Tissues via Early Matrix Metalloproteinase Upregulation. <i>Tissue Engineering</i> , 2006, .	4.6	0