

James P Carson

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,597
citations

430874

18
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

2590
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial distribution of marker gene activity in the mouse lung during alveolarization. <i>Data in Brief</i> , 2019, 22, 365-372.	1.0	6
2	Towards High-Resolution Tissue Imaging Using Nanospray Desorption Electrospray Ionization Mass Spectrometry Coupled to Shear Force Microscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 316-322.	2.8	61
3	Multifunctional Activity-Based Protein Profiling of the Developing Lung. <i>Journal of Proteome Research</i> , 2018, 17, 2623-2634.	3.7	9
4	LungMAP: The Molecular Atlas of Lung Development Program. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L733-L740.	2.9	162
5	Lipidomics reveals dramatic lipid compositional changes in the maturing postnatal lung. <i>Scientific Reports</i> , 2017, 7, 40555.	3.3	67
6	Spatially-Resolved Proteomics: Rapid Quantitative Analysis of Laser Capture Microdissected Alveolar Tissue Samples. <i>Scientific Reports</i> , 2016, 6, 39223.	3.3	69
7	A chicken embryo cardiac outflow tract atlas for registering changes due to abnormal blood flow. , 2016, 2016, 1236-1239.		3
8	Comparative Risks of Aldehyde Constituents in Cigarette Smoke Using Transient Computational Fluid Dynamics/Physiologically Based Pharmacokinetic Models of the Rat and Human Respiratory Tracts. <i>Toxicological Sciences</i> , 2015, 146, 65-88.	3.1	45
9	Automated measurement of heterogeneity in CT images of healthy and diseased rat lungs using variogram analysis of an octree decomposition. <i>BMC Medical Imaging</i> , 2014, 14, 1.	2.7	18
10	Wellbore cement fracture evolution at the cement–basalt caprock interface during geologic carbon sequestration. <i>Applied Geochemistry</i> , 2014, 47, 1-16.	3.0	50
11	An efficient algorithm for mapping imaging data to 3D unstructured grids in computational biomechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 1-16.	2.1	1
12	High-Speed Tandem Mass Spectrometric in Situ Imaging by Nanospray Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 9596-9603.	6.5	69
13	Automated, Foot-Bone Registration Using Subdivision-Embedded Atlases for Spatial Mapping of Bone Mineral Density. <i>Journal of Digital Imaging</i> , 2013, 26, 554-562.	2.9	5
14	In situ casting and imaging of the rat airway tree for accurate 3D reconstruction. <i>Experimental Lung Research</i> , 2013, 39, 249-257.	1.2	10
15	Imaging Nicotine in Rat Brain Tissue by Use of Nanospray Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 882-889.	6.5	108
16	Detecting Radiation-Induced Injury Using Rapid 3D Variogram Analysis of CT Images of Rat Lungs. <i>Academic Radiology</i> , 2013, 20, 1264-1271.	2.5	5
17	Dynamic Multiscale Boundary Conditions for 4D CT of Healthy and Emphysematous Rats. <i>PLoS ONE</i> , 2013, 8, e65874.	2.5	12
18	Comparative Computational Modeling of Airflows and Vapor Dosimetry in the Respiratory Tracts of Rat, Monkey, and Human. <i>Toxicological Sciences</i> , 2012, 128, 500-516.	3.1	141

#	ARTICLE	IF	CITATIONS
19	Visualization of high resolution spatial mass spectrometric data during acquisition. , 2012, 2012, 5545-8.		20
20	Automated Platform for High-Resolution Tissue Imaging Using Nanospray Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2012, 84, 8351-8356.	6.5	120
21	Phase-contrast MRI and CFD modeling of apparent ³ He gas flow in rat pulmonary airways. Journal of Magnetic Resonance, 2012, 221, 129-138.	2.1	23
22	Branch-Based Model for the Diameters of the Pulmonary Airways: Accounting for Departures From Self-Consistency and Registration Errors. Anatomical Record, 2012, 295, 1027-1044.	1.4	2
23	Landmark/image-based deformable registration of gene expression data. , 2011, , 1089-1096.		14
24	Markov Random Field-based fitting of a subdivision-based geometric atlas. , 2011, 2011, 2540-2547.		7
25	Lossless 3-D reconstruction and registration of semi-quantitative gene expression data in the mouse brain. , 2011, 2011, 8086-9.		2
26	Adaptive generation of multimaterial grids from imaging data for biomedical Lagrangian fluid-structure simulations. Biomechanics and Modeling in Mechanobiology, 2010, 9, 187-201.	2.8	15
27	Fluid-structure interactions of the mitral valve and left heart: Comprehensive strategies, past, present and future. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 348-380.	2.1	58
28	High resolution lung airway cast segmentation with proper topology suitable for computational fluid dynamic simulations. Computerized Medical Imaging and Graphics, 2010, 34, 572-578.	5.8	32
29	Comparison of Two Quantitative Methods of Discerning Airspace Enlargement in Smoke-Exposed Mice. PLoS ONE, 2009, 4, e6670.	2.5	35
30	Variational generation of prismatic boundary-layer meshes for biomedical computing. International Journal for Numerical Methods in Engineering, 2009, 79, 907-945.	2.8	40
31	Automatic identification and truncation of boundary outlets in complex imaging-derived biomedical geometries. Medical and Biological Engineering and Computing, 2009, 47, 989-999.	2.8	10
32	An Automated Self-Similarity Analysis of the Pulmonary Tree of the Sprague-Dawley Rat. Anatomical Record, 2008, 291, 1628-1648.	1.4	19
33	Enhanced anxiety and stress-induced corticosterone release are associated with increased <i>Crh</i> expression in a mouse model of Rett syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18267-18272.	7.1	225
34	A Digital Atlas to Characterize the Mouse Brain Transcriptome. PLoS Computational Biology, 2005, 1, e41.	3.2	56
35	A Digital Atlas to Characterize the Mouse Brain Transcriptome. PLoS Computational Biology, 2005, preprint, e41.	3.2	0
36	A transcriptome atlas of the mouse brain at cellular resolution. Current Opinion in Neurobiology, 2002, 12, 562-565.	4.2	78