

Daniel R Einstein

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

1,068
citations

20
h-index

32
g-index

44
ext. papers

1,153
ext. citations

3.3
avg, IF

3.92
L-index

#	Paper	IF	Citations
44	Fluid-Structure Interaction Analysis of Subject-Specific Mitral Valve Regurgitation Treatment with an Intra-Valvular Spacer. <i>Prosthesis</i> , 2020 , 2, 65-75	4.7	7
43	Effect of Edge-to-Edge Mitral Valve Repair on Chordal Strain: Fluid-Structure Interaction Simulations. <i>Biology</i> , 2020 , 9,	4.9	8
42	Fluid-structure interaction and structural analyses using a comprehensive mitral valve model with 3D chordal structure. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017 , 33, e2815	2.6	28
41	Fluid-Structure Interaction Analysis of Ruptured Mitral Chordae Tendineae. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 619-631	4.7	16
40	Fluid-Structure Interaction Analysis of Papillary Muscle Forces Using a Comprehensive Mitral Valve Model with 3D Chordal Structure. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 942-53	4.7	43
39	Comparison of realistic and idealized breathing patterns in computational models of airflow and vapor dosimetry in the rodent upper respiratory tract. <i>Inhalation Toxicology</i> , 2016 , 28, 192-202	2.7	3
38	Development of a Zealand white rabbit deposition model to study inhalation anthrax. <i>Inhalation Toxicology</i> , 2016 , 28, 80-8	2.7	6
37	Modeling particle deposition in the pig respiratory tract. <i>Journal of Aerosol Science</i> , 2016 , 99, 107-124	4.3	11
36	High-resolution subject-specific mitral valve imaging and modeling: experimental and computational methods. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 1619-1630	3.8	22
35	Comparison of CT-derived ventilation maps with deposition patterns of inhaled microspheres in rats. <i>Experimental Lung Research</i> , 2015 , 41, 135-45	2.3	8
34	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	4.4	36
33	Surface remeshing with robust high-order reconstruction. <i>Engineering With Computers</i> , 2014 , 30, 487-502.	2.5	5
32	Respiratory tract lung geometry and dosimetry model for male Sprague-Dawley rats. <i>Inhalation Toxicology</i> , 2014 , 26, 524-44	2.7	15
31	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	2.6	1
30	In situ casting and imaging of the rat airway tree for accurate 3D reconstruction. <i>Experimental Lung Research</i> , 2013 , 39, 249-57	2.3	8
29	An Implicit Elastic Theory for Lung Parenchyma. <i>International Journal of Engineering Science</i> , 2013 , 62, 31-47	5.7	35
28	Dynamic multiscale boundary conditions for 4D CT of healthy and emphysematous rats. <i>PLoS ONE</i> , 2013 , 8, e65874	3.7	11

27	Phase-contrast MRI and CFD modeling of apparent \square He gas flow in rat pulmonary airways. <i>Journal of Magnetic Resonance</i> , 2012 , 221, 129-38	3	21
26	Branch-based model for the diameters of the pulmonary airways: accounting for departures from self-consistency and registration errors. <i>Anatomical Record</i> , 2012 , 295, 1027-44	2.1	2
25	Hypo-elastic model for lung parenchyma. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 557-73.8	3.8	16
24	Development of a rhesus monkey lung geometry model and application to particle deposition in comparison to humans. <i>Inhalation Toxicology</i> , 2012 , 24, 869-99	2.7	31
23	Comparative computational modeling of airflows and vapor dosimetry in the respiratory tracts of rat, monkey, and human. <i>Toxicological Sciences</i> , 2012 , 128, 500-16	4.4	110
22	A multiscale bidirectional coupling framework. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2414-7	0.9	1
21	LOCAL ORTHOGONAL CUTTING METHOD FOR COMPUTING MEDIAL CURVES AND ITS BIOMEDICAL APPLICATIONS. <i>SIAM Journal of Scientific Computing</i> , 2010 , 32, 947-969	2.6	6
20	Adaptive generation of multimaterial grids from imaging data for biomedical Lagrangian fluid-structure simulations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010 , 9, 187-201	3.8	13
19	Hypoelastic Soft Tissues: Part II: In-Plane Biaxial Experiments. <i>Acta Mechanica</i> , 2010 , 213, 205-222	2.1	16
18	Fluid-Structure Interactions of the Mitral Valve and Left Heart: Comprehensive Strategies, Past, Present and Future. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010 , 26, 348-380	2.6	53
17	High resolution lung airway cast segmentation with proper topology suitable for computational fluid dynamic simulations. <i>Computerized Medical Imaging and Graphics</i> , 2010 , 34, 572-8	7.6	28
16	Vascular Geometry Reconstruction and Grid Generation 2010 , 103-119		
15	A computationally efficient formal optimization of regional myocardial contractility in a sheep with left ventricular aneurysm. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 111001	2.1	68
14	Variational Generation of Prismatic Boundary-Layer Meshes for Biomedical Computing. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 79, 907-945	2.4	32
13	Automatic identification and truncation of boundary outlets in complex imaging-derived biomedical geometries. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 989-99	3.1	10
12	An anisotropic scale-invariant unstructured mesh generator suitable for volumetric imaging data. <i>Journal of Computational Physics</i> , 2009 , 228, 619-640	4.1	27
11	Percutaneous mitral valve dilatation: single balloon versus double balloon. A finite element study. <i>Journal of Heart Valve Disease</i> , 2009 , 18, 28-34		15
10	Characterization of the highly nonlinear and anisotropic vascular tissues from experimental inflation data: a validation study toward the use of clinical data for in-vivo modeling and analysis. <i>Annals of Biomedical Engineering</i> , 2008 , 36, 1668-80	4.7	10

9	An automated self-similarity analysis of the pulmonary tree of the Sprague-Dawley rat. <i>Anatomical Record</i> , 2008 , 291, 1628-48	2.1	17
8	MR imaging of apparent ³ He gas transport in narrow pipes and rodent airways. <i>Journal of Magnetic Resonance</i> , 2008 , 194, 182-91	3	8
7	Three-dimensional mapping of ozone-induced injury in the nasal airways of monkeys using magnetic resonance imaging and morphometric techniques. <i>Toxicologic Pathology</i> , 2007 , 35, 27-40	2.1	26
6	Application of magnetic resonance (MR) imaging for the development and validation of computational fluid dynamic (CFD) models of the rat respiratory system. <i>Inhalation Toxicology</i> , 2006 , 18, 787-94	2.7	32
5	The relationship of normal and abnormal microstructural proliferation to the mitral valve closure sound. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 134-47	2.1	34
4	Inverse parameter fitting of biological tissues: a response surface approach. <i>Annals of Biomedical Engineering</i> , 2005 , 33, 1819-30	4.7	22
3	Invariant formulation for dispersed transverse isotropy in aortic heart valves: an efficient means for modeling fiber splay. <i>Biomechanics and Modeling in Mechanobiology</i> , 2005 , 4, 100-17	3.8	106
2	Non-linear fluid-coupled computational model of the mitral valve. <i>Journal of Heart Valve Disease</i> , 2005 , 14, 376-85		42
1	A coupled fluid-structure finite element model of the aortic valve and root. <i>Journal of Heart Valve Disease</i> , 2003 , 12, 781-9		59