

# Daniel B Ennis

## List of Publications by Year in descending order

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89  
papers

2,005  
citations

361413

20  
h-index

276875

41  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2841  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orthogonal tensor invariants and the analysis of diffusion tensor magnetic resonance images. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 136-146.	3.0	242
2	Assessment of Myocardial Microstructural Dynamics by In-Vivo Diffusion Tensor Cardiac Magnetic Resonance. <i>Journal of the American College of Cardiology</i> , 2017, 69, 661-676.	2.8	171
3	Modelling passive diastolic mechanics with quantitative MRI of cardiac structure and function. <i>Medical Image Analysis</i> , 2009, 13, 773-784.	11.6	155
4	Pacemaker lead tip heating in abandoned and pacemaker-attached leads at 1.5 tesla MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 426-431.	3.4	123
5	Device artifact reduction for magnetic resonance imaging of patients with implantable cardioverter-defibrillators and ventricular tachycardia: Late gadolinium enhancement correlation with electroanatomic mapping. <i>Heart Rhythm</i> , 2014, 11, 289-298.	0.7	86
6	Convex optimized diffusion encoding (CODE) gradient waveforms for minimum echo time and bulk motion-compensated diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 717-729.	3.0	82
7	The presence of two local myocardial sheet populations confirmed by diffusion tensor MRI and histological validation. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1080-1091.	3.4	69
8	Diffusion Tensor Analysis With Invariant Gradients and Rotation Tangents. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1483-1499.	8.9	63
9	Visualization of tensor fields using superquadric glyphs. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 169-176.	3.0	60
10	Construction and Validation of Subject-Specific Biventricular Finite-Element Models of Healthy and Failing Swine Hearts From High-Resolution DT-MRI. <i>Frontiers in Physiology</i> , 2018, 9, 539.	2.8	56
11	Simulation Methods and Validation Criteria for Modeling Cardiac Ventricular Electrophysiology. <i>PLoS ONE</i> , 2014, 9, e114494.	2.5	48
12	Scar voltage threshold determination using ex vivo magnetic resonance imaging integration in a porcine infarct model: Influence of interelectrode distances and three-dimensional spatial effects of scar. <i>Heart Rhythm</i> , 2016, 13, 1993-2002.	0.7	39
13	Eddy current-nulled convex optimized diffusion encoding (ENCODE) for distortion-free diffusion tensor imaging with short echo times. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 663-672.	3.0	30
14	Noninvasive measurement of myocardial tissue volume change during systolic contraction and diastolic relaxation in the canine left ventricle. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 484-490.	3.0	27
15	Myofiber angle distributions in the ovine left ventricle do not conform to computationally optimized predictions. <i>Journal of Biomechanics</i> , 2008, 41, 3219-3224.	2.1	27
16	Probing dynamic myocardial microstructure with cardiac magnetic resonance diffusion tensor imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 89.	3.3	27
17	Endocardial versus epicardial electrical synchrony during LV free-wall pacing. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1864-H1870.	3.2	26
18	Testing Foundations of Biological Scaling Theory Using Automated Measurements of Vascular Networks. <i>PLoS Computational Biology</i> , 2015, 11, e1004455.	3.2	24

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19	Cardiac MRI biomarkers for Duchenne muscular dystrophy. <i>Biomarkers in Medicine</i> , 2018, 12, 1271-1289.	1.4	24
20	Terahertz Imaging of Cutaneous Edema: Correlation With Magnetic Resonance Imaging in Burn Wounds. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2682-2694.	4.2	22
21	Microstructural Infarct Border Zone Remodeling in the Post-infarct Swine Heart Measured by Diffusion Tensor MRI. <i>Frontiers in Physiology</i> , 2018, 9, 826.	2.8	22
22	Highly accelerated, model-free diffusion tensor MRI reconstruction using neural networks. <i>Medical Physics</i> , 2019, 46, 1581-1591.	3.0	22
23	Intra-myocardial alginate hydrogel injection acts as a left ventricular mid-wall constraint in swine. <i>Acta Biomaterialia</i> , 2020, 111, 170-180.	8.3	22
24	Fully-automated global and segmental strain analysis of DENSE cardiovascular magnetic resonance using deep learning for segmentation and phase unwrapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 20.	3.3	21
25	Quantifying precision in cardiac diffusion tensor imaging with second-order motion-compensated convex optimized diffusion encoding. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1074-1087.	3.0	20
26	Changes in Mitral Annular Geometry and Dynamics With $\beta$ -Blockade in Patients With Degenerative Mitral Valve Disease. <i>Circulation: Cardiovascular Imaging</i> , 2010, 3, 687-693.	2.6	19
27	Electrophysiology of Heart Failure Using a Rabbit Model: From the Failing Myocyte to Ventricular Fibrillation. <i>PLoS Computational Biology</i> , 2016, 12, e1004968.	3.2	19
28	Effect of flow-encoding strength on intravoxel incoherent motion in the liver. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1521-1533.	3.0	19
29	Evaluation of the impact of strain correction on the orientation of cardiac diffusion tensors with in vivo and ex vivo porcine hearts. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2205-2215.	3.0	18
30	Cardiac MRI: a Translational Imaging Tool for Characterizing Anthracycline-Induced Myocardial Remodeling. <i>Current Oncology Reports</i> , 2016, 18, 48.	4.0	17
31	Method for the unique identification of hyperelastic material properties using full-field measures. Application to the passive myocardium material response. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2866.	2.1	17
32	The dependence of radiofrequency induced pacemaker lead tip heating on the electrical conductivity of the medium at the lead tip. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 606-613.	3.0	16
33	Using synthetic data generation to train a cardiac motion tag tracking neural network. <i>Medical Image Analysis</i> , 2021, 74, 102223.	11.6	16
34	Fourier analysis of STimulated echoes (FAST) for the quantitative analysis of left ventricular twist. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 587-593.	3.4	15
35	Optimal flip angle for high contrast balanced SSFP cardiac cine imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1095-1103.	3.0	14
36	Estimating Aggregate Cardiomyocyte Strain Using <i>In-Vivo</i> Diffusion and Displacement Encoded MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 656-667.	8.9	14

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37	The effects of noise over the complete space of diffusion tensor shape. <i>Medical Image Analysis</i> , 2014, 18, 197-210.	11.6	13
38	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. <i>PLoS ONE</i> , 2020, 15, e0241996.	2.5	13
39	Reproducibility of global and segmental myocardial strain using cine DENSE at 3T: a multicenter cardiovascular magnetic resonance study in healthy subjects and patients with heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, 23.	3.3	13
40	Chemical shift-induced phase errors in phase-contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 391-401.	3.0	11
41	Variable flip angle balanced steady-state free precession for lower SAR or higher contrast cardiac cine imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1035-1043.	3.0	11
42	Estimating cardiomyofiber strain in vivo by solving a computational model. <i>Medical Image Analysis</i> , 2021, 68, 101932.	11.6	11
43	Microstructurally Anchored Cardiac Kinematics by Combining In Vivo DENSE MRI and cDTI. <i>Lecture Notes in Computer Science</i> , 2017, 10263, 381-391.	1.3	11
44	Left ventricular twist and shear in patients with primary mitral regurgitation. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 400-406.	3.4	10
45	Time-optimized 4D phase contrast MRI with real-time convex optimization of gradient waveforms and fast excitation methods. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 213-224.	3.0	10
46	Optimization methods for magnetic resonance imaging gradient waveform design. <i>NMR in Biomedicine</i> , 2020, 33, e4308.	2.8	10
47	Myofiber strain in healthy humans using DENSE and cDTI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 277-292.	3.0	10
48	On the impact of vessel wall stiffness on quantitative flow dynamics in a synthetic model of the thoracic aorta. <i>Scientific Reports</i> , 2021, 11, 6703.	3.3	10
49	Linear Invariant Tensor Interpolation Applied to Cardiac Diffusion Tensor MRI. <i>Lecture Notes in Computer Science</i> , 2012, 15, 494-501.	1.3	10
50	Convex gradient optimization for increased spatiotemporal resolution and improved accuracy in phase contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1552-1564.	3.0	9
51	Effect of free-breathing on left ventricular rotational mechanics in healthy subjects and patients with duchenne muscular dystrophy. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 864-869.	3.0	9
52	T1-Mapping and extracellular volume estimates in pediatric subjects with Duchenne muscular dystrophy and healthy controls at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 85.	3.3	9
53	Myocardial mesostructure and mesofunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 323, H257-H275.	3.2	9
54	Velocity reconstruction with nonconvex optimization for low-velocity encoding phase-contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 42-52.	3.0	8



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73	4D Flow MR Imaging to Improve Microwave Ablation Prediction Models: A Feasibility Study in an In Vivo Porcine Liver. <i>Journal of Vascular and Interventional Radiology</i> , 2020, 31, 1691-1696.e1.	0.5	4
74	Phase contrast MRI with flow compensation view sharing. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 505-513.	3.0	3
75	Free-breathing variable flip angle balanced SSFP cardiac cine imaging with reduced SAR at 3T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1210-1216.	3.0	3
76	Time resolved displacement-based registration of in vivo cDTI cardiomyocyte orientations. , 2018, 2018, 474-478.		3
77	Diffusion Biomarkers in Chronic Myocardial Infarction. <i>Lecture Notes in Computer Science</i> , 2021, 12738, 137-147.	1.3	3
78	Injection of gadolinium contrast through pediatric central venous catheters: a safety study. <i>Pediatric Radiology</i> , 2012, 42, 1064-1069.	2.0	2
79	Complementary radial tagging for improved myocardial tagging contrast. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1432-1440.	3.0	2
80	Analysis of Location-Dependent Cardiomyocyte Branching. <i>Lecture Notes in Computer Science</i> , 2021, , 189-199.	1.3	2
81	A Framework for Evaluating Myocardial Stiffness Using 3D-Printed Heart Phantoms. <i>Lecture Notes in Computer Science</i> , 2021, , 305-314.	1.3	2
82	Validation of cardiac diffusion tensor imaging sequences: A multicentre test-retest phantom study. <i>NMR in Biomedicine</i> , 2022, 35, e4685.	2.8	2
83	In Vivo Super-Resolution Cardiac Diffusion Tensor MRI: A Feasibility Study. <i>Diagnostics</i> , 2022, 12, 877.	2.6	2
84	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. , 2020, 15, e0241996.		0
85	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. , 2020, 15, e0241996.		0
86	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. , 2020, 15, e0241996.		0
87	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. , 2020, 15, e0241996.		0
88	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. , 2020, 15, e0241996.		0
89	Probing cardiomyocyte mobility with multi-phase cardiac diffusion tensor MRI. , 2020, 15, e0241996.		0