Edward V R Dibella

List of Publications by Year
in descending order

117 papers	5,614 citations	136950 32 h-index	82547 72 g-index
121 all docs	121 docs citations	121 times ranked	5473 citing authors

#	Article	IF	Citations
1	Detection and Quantification of Left Atrial Structural Remodeling With Delayed-Enhancement Magnetic Resonance Imaging in Patients With Atrial Fibrillation. Circulation, 2009, 119, 1758-1767.	1.6	960
2	Left Atrial Strain and Strain Rate in Patients With Paroxysmal and Persistent Atrial Fibrillation. Circulation: Cardiovascular Imaging, 2010, 3, 231-239.	2.6	550
3	Accelerated Dynamic MRI Exploiting Sparsity and Low-Rank Structure: k-t SLR. IEEE Transactions on Medical Imaging, 2011, 30, 1042-1054.	8.9	510
4	Atrial Fibrillation Ablation Outcome Is Predicted by Left Atrial Remodeling on MRI. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 23-30.	4.8	316
5	New Magnetic Resonance Imaging-Based Method for Defining the Extent of Left Atrial Wall Injury After the Ablation of Atrial Fibrillation. Journal of the American College of Cardiology, 2008, 52, 1263-1271.	2.8	313
6	Highly accelerated realâ€time cardiac cine MRI using kâ€“t SPARSEâ€SENSE. Magnetic Resonance in Medicine, 2013, 70, 64-74.	3.0	176
7	Acquisition and reconstruction of undersampled radial data for myocardial perfusion magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 466-473.	3.4	129
8	Late gadolinium enhancement: precursor to cardiomyopathy in Duchenne muscular dystrophy?. International Journal of Cardiovascular Imaging, 2009, 25, 57-63.	1.5	126
9	Dark Regions of No-Reflow on Late Gadolinium Enhancement Magnetic Resonance Imaging Result in Scar Formation After Atrial Fibrillation Ablation. Journal of the American College of Cardiology, 2011, 58, 177-185.	2.8	102
10	Magnetic Resonance Imagingâ€Confirmed Ablative Debulking of the Left Atrial Posterior Wall and Septum for Treatment of Persistent Atrial Fibrillation: Rationale and Initial Experience. Journal of Cardiovascular Electrophysiology, 2010, 21, 126-132.	1.7	95
11	Temporal left atrial lesion formation after ablation of atrial fibrillation. Heart Rhythm, 2009, 6, 161-168.	0.7	94
12	Temporally constrained reconstruction of dynamic cardiac perfusion MRI. Magnetic Resonance in Medicine, 2007, 57, 1027-1036.	3.0	91
13	kâ€“t ISD: Dynamic cardiac MR imaging using compressed sensing with iterative support detection. Magnetic Resonance in Medicine, 2012, 68, 41-53.	3.0	82
14	Sparse Reconstruction Challenge for diffusion MRI: Validation on a physical phantom to determine which acquisition scheme and analysis method to use?. Medical Image Analysis, 2015, 26, 316-331.	11.6	78
15	Deformation Corrected Compressed Sensing (DC-CS): A Novel Framework for Accelerated Dynamic MRI. IEEE Transactions on Medical Imaging, 2015, 34, 72-85.	8.9	71
16	Comparison of myocardial perfusion estimates from dynamic contrastâ€enhanced magnetic resonance imaging with four quantitative analysis methods. Magnetic Resonance in Medicine, 2010, 64, 125-137.	3.0	69
17	Model-based registration for dynamic cardiac perfusion MRI. Journal of Magnetic Resonance Imaging, 2006, 24, 1062-1070.	3.4	62
18	Modelâ€based blind estimation of kinetic parameters in dynamic contrast enhanced (DCE)â€MRI. Magnetic Resonance in Medicine, 2009, 62, 1477-1486.	3.0	61

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19	Strain measurement in the left ventricle during systole with deformable image registration. Medical Image Analysis, 2009, 13, 354-361.	11.6	59
20	Higher-Order Motion-Compensation for In Vivo Cardiac Diffusion Tensor Imaging in Rats. IEEE Transactions on Medical Imaging, 2015, 34, 1843-1853.	8.9	59
21	Estimation of kinetic parameters without input functions: analysis of three methods for multichannel blind identification. IEEE Transactions on Biomedical Engineering, 2002, 49, 1318-1327.	4.2	54
22	Reconstruction of dynamic contrast enhanced magnetic resonance imaging of the breast with temporal constraints. Magnetic Resonance Imaging, 2010, 28, 637-645.	1.8	54
23	Simultaneous NODDI and GFA parameter map generation from subsampled qâ€space imaging using deep learning. Magnetic Resonance in Medicine, 2019, 81, 2399-2411.	3.0	51
24	Factor analysis witha prioriknowledge - application in dynamic cardiac SPECT. Physics in Medicine and Biology, 2000, 45, 2619-2638.	3.0	50
25	Estimating myocardial perfusion from dynamic contrast-enhanced CMR with a model-independent deconvolution method. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 52.	3.3	46
26	Assessment of white matter microstructure in stroke patients using NODDI. , 2014, 2014, 742-5.		46
27	Temporally constrained reconstruction applied to MRI temperature data. Magnetic Resonance in Medicine, 2009, 62, 406-419.	3.0	43
28	A review of 3D first-pass, whole-heart, myocardial perfusion cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 68.	3.3	43
29	Reconstruction of 3D dynamic contrastâ€enhanced magnetic resonance imaging using nonlocal means. Journal of Magnetic Resonance Imaging, 2010, 32, 1217-1227.	3.4	40
30	Modelâ€based reconstruction of undersampled diffusion tensor kâ€space data. Magnetic Resonance in Medicine, 2013, 70, 429-440.	3.0	40
31	A model-constrained Monte Carlo method for blind arterial input function estimation in dynamic contrast-enhanced MRI: II.In vivoresults. Physics in Medicine and Biology, 2010, 55, 4807-4823.	3.0	39
32	Validation of highly accelerated realâ€time cardiac cine MRI with radial kâ€space sampling and compressed sensing in patients at 1.5T and 3T. Magnetic Resonance in Medicine, 2018, 79, 2745-2751.	3.0	39
33	A model-constrained Monte Carlo method for blind arterial input function estimation in dynamic contrast-enhanced MRI: I. Simulations. Physics in Medicine and Biology, 2010, 55, 4783-4806.	3.0	37
34	Accelerated dynamic MRI using patch regularization for implicit motion compensation. Magnetic Resonance in Medicine, 2017, 77, 1238-1248.	3.0	33
35	Compartmental Modeling of Technetium-99mâ€“Labeled Teboroxime with Dynamic Single-Photon Emission Computed Tomography. Investigative Radiology, 2001, 36, 178-185.	6.2	31
36	Reordering for Improved Constrained Reconstruction from Undersampled k-Space Data. International Journal of Biomedical Imaging, 2008, 2008, 1-12.	3.9	31

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37	Threeâ€dimensional late gadolinium enhancement imaging of the left atrium with a hybrid radial acquisition and compressed sensing. Journal of Magnetic Resonance Imaging, 2011, 34, 1465-1471.	3.4	31
38	Myocardial perfusion MRI with an undersampled 3D stackâ€ofâ€stars sequence. Medical Physics, 2012, 39, 5204-5211.	3.0	31
39	Blind estimation of compartmental model parameters. Physics in Medicine and Biology, 1999, 44, 765-780.	3.0	30
40	The effect of obesity on regadenoson-induced myocardial hyperemia: a quantitative magnetic resonance imaging study. International Journal of Cardiovascular Imaging, 2012, 28, 1435-1444.	1.5	30
41	Rapid ungated myocardial perfusion cardiovascular magnetic resonance: preliminary diagnostic accuracy. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 26.	3.3	29
42	Analytical propagation of errors in dynamic SPECT: estimators, degrading factors, bias and noise. Physics in Medicine and Biology, 1999, 44, 1997-2014.	3.0	28
43	Perfusion MRI with radial acquisition for arterial input function assessment. Magnetic Resonance in Medicine, 2007, 57, 821-827.	3.0	28
44	Optimization and validation of accelerated goldenâ€angle radial sparse MRI reconstruction with selfâ€calibrating GRAPPA operator gridding. Magnetic Resonance in Medicine, 2018, 80, 286-293.	3.0	28
45	Predicting Motor Outcomes in Stroke Patients Using Diffusion Spectrum MRI Microstructural Measures. Frontiers in Neurology, 2019, 10, 72.	2.4	28
46	Sparse BLIP: BLind Iterative Parallel imaging reconstruction using compressed sensing. Magnetic Resonance in Medicine, 2014, 71, 645-660.	3.0	26
47	Radial simultaneous multi-slice CAIPI for ungated myocardial perfusion. Magnetic Resonance Imaging, 2016, 34, 1329-1336.	1.8	26
48	Accelerating free breathing myocardial perfusion MRI using multi coil radialkâ^’tSLR. Physics in Medicine and Biology, 2013, 58, 7309-7327.	3.0	25
49	Quantification of myocardial perfusion using CMR with a radial data acquisition: comparison with a dual-bolus method. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 45.	3.3	24
50	Spatiotemporal dictionary learning for undersampled dynamic MRI reconstruction via joint frame-based and dictionary-based sparsity. , 2012, , .		24
51	Toward local arterial input functions in dynamic contrastâ€enhanced MRI. Journal of Magnetic Resonance Imaging, 2010, 32, 924-934.	3.4	23
52	Quantitative myocardial distribution volume from dynamic contrast-enhanced MRI. Magnetic Resonance Imaging, 2008, 26, 532-542.	1.8	21
53	Myocardial perfusion acquisition without magnetization preparation or gating. Magnetic Resonance in Medicine, 2012, 67, 609-613.	3.0	20
54	Compressed sensing for rapid late gadolinium enhanced imaging of the left atrium: A preliminary study. Magnetic Resonance Imaging, 2016, 34, 846-854.	1.8	20

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55	Estimation of coronary flow reserve: Can SPECT compete with other modalities?. Journal of Nuclear Cardiology, 2001, 8, 620-625.	2.1	18
56	Evaluation of highly accelerated realâ€time cardiac cine MRI in tachycardia. NMR in Biomedicine, 2014, 27, 175-182.	2.8	18
57	An Open Benchmark Challenge for Motion Correction of Myocardial Perfusion MRI. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1315-1326.	6.3	18
58	Removal of liver activity contamination in teboroxime dynamic cardiac SPECT imaging with the use of factor analysis. Journal of Nuclear Cardiology, 2002, 9, 197-205.	2.1	17
59	Blind identification of the kinetic parameters in three-compartment models. Physics in Medicine and Biology, 2004, 49, 639-664.	3.0	17
60	Automated region selection for analysis of dynamic cardiac SPECT data. IEEE Transactions on Nuclear Science, 1997, 44, 1355-1361.	2.0	16
61	Feasibility of multiple-view myocardial perfusion MRI using radial simultaneous multi-slice acquisitions. PLoS ONE, 2019, 14, e0211738.	2.5	16
62	Parallelized formulation of the maximum likelihood-expectation maximization algorithm for fine-grain message-passing architectures. IEEE Transactions on Medical Imaging, 1995, 14, 758-762.	8.9	15
63	Technical Note: Evaluation of preâ€reconstruction interpolation methods for iterative reconstruction of radial kâ€space data. Medical Physics, 2017, 44, 4025-4034.	3.0	15
64	SPATIO-TEMPORAL CONSTRAINED RECONSTRUCTION OF SPARSE DYNAMIC CONTRAST ENHANCED RADIAL MRI DATA. , 2007, , .		14
65	Quantification of myocardial perfusion with self-gated cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 14.	3.3	14
66	Quantitative 3D myocardial perfusion with an efficient arterial input function. Magnetic Resonance in Medicine, 2020, 83, 1949-1963.	3.0	14
67	The effect of temporal sampling on quantitative pharmacokinetic and three-time-point analysis of breast DCE-MRI. Magnetic Resonance Imaging, 2012, 30, 934-943.	1.8	13
68	Wholeâ€heart, ungated, freeâ€breathing, cardiacâ€phaseâ€resolved myocardial perfusion MRI by using Continuous Radial Interleaved simultaneous Multiâ€slice acquisitions at sPoiled steadyâ€state (CRIMP). Magnetic Resonance in Medicine, 2020, 84, 3071-3087.	3.0	12
69	Comparison of static and dynamic cardiac perfusion thallium-201 SPECT. IEEE Transactions on Nuclear Science, 2001, 48, 774-779.	2.0	11
70	Compressed sensing HARDI via rotation-invariant concise dictionaries, flexible K-space undersampling, and multiscale spatial regularity. , 2013, , .		11
71	Beyond Diffusion Tensor MRI Methods for Improved Characterization of the Brain after Ischemic Stroke: A Review. American Journal of Neuroradiology, 2022, 43, 661-669.	2.4	11
72	Constrained estimation of the arterial input function for myocardial perfusion cardiovascular magnetic resonance. Magnetic Resonance in Medicine, 2011, 66, 419-427.	3.0	10

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73	Interstudy repeatability of selfâ€gated quantitative myocardial perfusion MRI. Journal of Magnetic Resonance Imaging, 2016, 43, 1369-1378.	3.4	10
74	Distance between the left atrium and the vertebral body is predictive of esophageal movement in serial MR imaging. Journal of Interventional Cardiac Electrophysiology, 2018, 52, 149-156.	1.3	10
75	Simultaneous multi-slice image reconstruction using regularized image domain split slice-GRAPPA for diffusion MRI. Medical Image Analysis, 2021, 70, 102000.	11.6	10
76	Static versus dynamic teboroxime myocardial perfusion SPECT in canines. IEEE Transactions on Nuclear Science, 2000, 47, 1112-1117.	2.0	9
77	Flow measurement in MRI using arterial spin labeling with cumulative readout pulsesâ€"Theory and validation. Medical Physics, 2010, 37, 5801-5810.	3.0	9
78	Split Bregman multicoil accelerated reconstruction technique: A new framework for rapid reconstruction of cardiac perfusion MRI. Medical Physics, 2016, 43, 1969-1981.	3.0	9
79	Deep learning for radial SMS myocardial perfusion reconstruction using the 3D residual booster U-net. Magnetic Resonance Imaging, 2021, 83, 178-188.	1.8	9
80	Parametric image formation using clustering for dynamic cardiac SPECT. IEEE Transactions on Nuclear Science, 2003, 50, 1584-1589.	2.0	8
81	Cardiac Imaging Using a Four-Segment Slant-Hole Collimator. IEEE Transactions on Nuclear Science, 2006, 53, 2619-2627.	2.0	8
82	Model-Based Image Reconstruction for Dynamic Cardiac Perfusion MRI from Sparse Data. , 2006, 2006, 936-41.		8
83	Comparison of centric and reverseâ€centric trajectories for highly accelerated threeâ€dimensional saturation recovery cardiac perfusion imaging. Magnetic Resonance in Medicine, 2015, 74, 1070-1076.	3.0	8
84	Correlation of myocardial p-(123)I-iodophenylpentadecanoic acid retention with (18)F-FDG accumulation during experimental low-flow ischemia. Journal of Nuclear Medicine, 2002, 43, 421-31.	5.0	8
85	Compression2: compressed sensing with compressed coil arrays. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	7
86	Alterations in atrial perfusion during atrial fibrillation. Experimental Physiology, 2014, 99, 1267-1272.	2.0	7
87	Reproducibility of clinical late gadolinium enhancement magnetic resonance imaging in detecting left atrial scar after atrial fibrillation ablation. Journal of Cardiovascular Electrophysiology, 2020, 31, 2824-2832.	1.7	7
88	Accelerated first pass cardiac perfusion MRI using improved k − t SLR. , 2011, , .		6
89	Edge-enhanced spatiotemporal constrained reconstruction of undersampled dynamic contrast-enhanced radial MRI. Magnetic Resonance Imaging, 2012, 30, 610-619.	1.8	6
90	Nonâ€iterative reconstruction with a prior for undersampled radial MRI data. International Journal of Imaging Systems and Technology, 2013, 23, 53-58.	4.1	6

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91	Rapid rest/stress regadenoson ungated perfusion CMR for detection of coronary artery disease in patients with atrial fibrillation. International Journal of Cardiovascular Imaging, 2017, 33, 1781-1788.	1.5	6
92	Coil-combined split slice-GRAPPA for simultaneous multi-slice diffusion MRI. Magnetic Resonance Imaging, 2020, 66, 9-21.	1.8	6
93	A Framework for generalized reference image reconstruction methods including HYPRâ€LR, PRâ€FOCUSS, and kâ€t FOCUSS. Journal of Magnetic Resonance Imaging, 2011, 34, 403-412.	3.4	5
94	Magnetic resonance imaging (MRI) assessment of ventricular remodeling after myocardial infarction in rabbits. Comparative Medicine, 2012, 62, 116-23.	1.0	5
95	Improving Undersampled MRI Reconstruction Using Non-local Means. , 2010, , .		4
96	Estimating extraction fraction and blood flow by combining first-pass myocardial perfusion and T1 mapping results. Quantitative Imaging in Medicine and Surgery, 2017, 7, 480-495.	2.0	4
97	K-T ISD: Compressed sensing with iterative support detection for dynamic MRI. , 2011, , .		3
98	Effect of slice excitation profile on ungated steady state cardiac perfusion imaging. Biomedical Physics and Engineering Express, 2017, 3, 027001.	1.2	3
99	Level sets and shape models for segmentation of cardiac perfusion MRI. , 2006, , .		2
100	MRI reconstruction of multiâ€image acquisitions using a rank regularizer with data reordering. Medical Physics, 2015, 42, 4734-4744.	3.0	2
101	Deformable and Rigid Model-Based Image Registration for Quantitative Cardiac Perfusion. Lecture Notes in Computer Science, 2015, , 41-50.	1.3	2
102	Initial investigation of free-breathing 3D whole-heart stress myocardial perfusion MRI. Global Cardiology Science & Practice, 2020, 2020, e202038.	0.4	2
103	Jointly estimating parametric maps of multiple diffusion models from undersampled qâ€space data: A comparison of three deep learning approaches. Magnetic Resonance in Medicine, 2022, 87, 2957-2971.	3.0	2
104	Heterogeneity of SPECT bull's-eyes in normal dogs: comparison of attenuation compensation algorithms. IEEE Transactions on Nuclear Science, 1995, 42, 1290-1296.	2.0	1
105	Gamma camera PET with low energy collimators: characterization and correction of scatter. IEEE Transactions on Nuclear Science, 2002, 49, 2067-2073.	2.0	1
106	Model-based reconstruction for undersampled dynamic contrast-enhanced MRI. Proceedings of SPIE, 2009, , .	0.8	1
107	Late Gadolinium Enhancement imaging using stack of stars and compressed sensing. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	1
108	Direct reconstruction of T 1 from k-space using a radial saturation-recovery sequence. , 2011, , .		1

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109	Simultaneous image reconstruction and sensitivity estimation in parallel MRI using blind compressed sensing. , 2012, , .		1
110	Improving image reconstructions for simultaneous multi-slice readout-segmented diffusion MRI data with phase errors. , 2018, , .		1
111	Comparison of Prospective and Retrospective Gated 4D Flow Cardiac MR Image Acquisitions in the Carotid Bifurcation. Cardiovascular Engineering and Technology, 0, , .	1.6	1
112	1102 Data acquisition and reconstruction of undersampled radial MR myocardial perfusion. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	3.3	0
113	Quantification of myocardial perfusion MRI using radial data acquisition: comparison of Ktrans from dual-bolus and T1 estimation methods. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0
114	A direct comparison of adenosine and regadenoson myocardial perfusion reserves measured by MRI. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0
115	Highly accelerated dynamic contrast-enhanced MRI with temporal constrained reconstruction. , 2014, 2014, 2408-11.		0
116	B-PO05-139 CHANGES IN FLOW DYNAMICS DUE TO PERSISTENT ATRIAL FIBRILLATION IN A CHRONICALLY PACED CANINE MODEL. Heart Rhythm, 2021, 18, S428-S429.	0.7	0
117	Model-Based Image Reconstruction for Dynamic Cardiac Perfusion MRI from Sparse Data. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0