

John M Pauly

List of Publications by Year in descending order

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113
papers

13,519
citations

50276

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all docs

114
docs citations

114
times ranked

9656
citing authors

#	ARTICLE	IF	CITATIONS
1	NeRP: Implicit Neural Representation Learning With Prior Embedding for Sparsely Sampled Image Reconstruction. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 770-782.	11.3	36
2	Attention-guided deep learning for gestational age prediction using fetal brain MRI. Scientific Reports, 2022, 12, 1408.	3.3	15
3	Novel-view X-ray projection synthesis through geometry-integrated deep learning. Medical Image Analysis, 2022, 77, 102372.	11.6	3
4	Artifact- and content-specific quality assessment for MRI with image rulers. Medical Image Analysis, 2022, 77, 102344.	11.6	14
5	Fast variable density Poisson-disc sample generation with directional variation for compressed sensing in MRI. Magnetic Resonance Imaging, 2021, 77, 186-193.	1.8	11
6	Uncertainty Quantification in Deep MRI Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 239-250.	8.9	54
7	Wasserstein GANs for MR Imaging: From Paired to Unpaired Training. IEEE Transactions on Medical Imaging, 2021, 40, 105-115.	8.9	36
8	Analysis of deep complex-valued convolutional neural networks for MRI reconstruction and phase-focused applications. Magnetic Resonance in Medicine, 2021, 86, 1093-1109.	3.0	58
9	Utilizing the wavelet transform's structure in compressed sensing. Signal, Image and Video Processing, 2021, 15, 1407-1414.	2.7	3
10	Multi-Domain Image Completion for Random Missing Input Data. IEEE Transactions on Medical Imaging, 2021, 40, 1113-1122.	8.9	43
11	Biopsy marker localization with thermoacoustic ultrasound for lumpectomy guidance. Medical Physics, 2021, 48, 6069-6079.	3.0	0
12	Fast Unsupervised MRI Reconstruction Without Fully-Sampled Ground Truth Data Using Generative Adversarial Networks. , 2021, , .		5
13	Data-driven self-calibration and reconstruction for noncartesian wave-encoded single-shot fast spin echo using deep learning. Journal of Magnetic Resonance Imaging, 2020, 51, 841-853.	3.4	20
14	Thermoacoustic ultrasound for noninvasive temperature monitoring at lead tips during MRI. Magnetic Resonance in Medicine, 2020, 84, 1035-1047.	3.0	4
15	Two-dimensional UTE overview imaging for dental application. Magnetic Resonance in Medicine, 2020, 84, 2616-2624.	3.0	11
16	Rosette Trajectories Enable Ungated, Motion-Robust, Simultaneous Cardiac and Liver T2* Iron Assessment. Journal of Magnetic Resonance Imaging, 2020, 52, 1688-1698.	3.4	6
17	Diagnostic Image Quality Assessment and Classification in Medical Imaging: Opportunities and Challenges. , 2020, 2020, 337-340.		15
18	Compressed Sensing: From Research to Clinical Practice With Deep Neural Networks: Shortening Scan Times for Magnetic Resonance Imaging. IEEE Signal Processing Magazine, 2020, 37, 117-127.	5.6	121

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19	Synthesize High-Quality Multi-Contrast Magnetic Resonance Imaging From Multi-Echo Acquisition Using Multi-Task Deep Generative Model. IEEE Transactions on Medical Imaging, 2020, 39, 3089-3099.	8.9	31
20	Automatically Determining the Confocal Parameters From OCT B-Scans for Quantification of the Attenuation Coefficients. IEEE Transactions on Medical Imaging, 2019, 38, 261-268.	8.9	16
21	Deep Generative Adversarial Neural Networks for Compressive Sensing MRI. IEEE Transactions on Medical Imaging, 2019, 38, 167-179.	8.9	373
22	Ultra-low-dose PET reconstruction using generative adversarial network with feature matching and task-specific perceptual loss. Medical Physics, 2019, 46, 3555-3564.	3.0	121
23	Deep residual network for off-resonance artifact correction with application to pediatric body MRA with 3D cones. Magnetic Resonance in Medicine, 2019, 82, 1398-1411.	3.0	16
24	Evaluation of a Flexible 12-Channel Screen-printed Pediatric MRI Coil. Radiology, 2019, 291, 180-185.	7.3	35
25	An MRI Compatible RF MEMs Controlled Wireless Power Transfer System. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1717-1726.	4.6	15
26	Hyperpolarized ¹³ C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	5.3	316
27	Ultra-low-Dose ¹⁸ F-Fluorbetaben Amyloid PET Imaging Using Deep Learning with Multi-Contrast MRI Inputs. Radiology, 2019, 290, 649-656.	7.3	182
28	Accelerated MRI Reconstruction with Dual-Domain Generative Adversarial Network. Lecture Notes in Computer Science, 2019, , 47-57.	1.3	5
29	Task-GAN: Improving Generative Adversarial Network for Image Reconstruction. Lecture Notes in Computer Science, 2019, , 193-204.	1.3	2
30	Technique development of 3D dynamic CS-EPSI for hyperpolarized ¹³ C pyruvate MR molecular imaging of human prostate cancer. Magnetic Resonance in Medicine, 2018, 80, 2062-2072.	3.0	47
31	Deep learning enables reduced gadolinium dose for contrast-enhanced brain MRI. Journal of Magnetic Resonance Imaging, 2018, 48, 330-340.	3.4	220
32	Slice profile effects on nCPMG SS-FSE. Magnetic Resonance in Medicine, 2018, 79, 430-438.	3.0	3
33	Body diffusion-weighted imaging using magnetization prepared single-shot fast spin echo and extended parallel imaging signal averaging. Magnetic Resonance in Medicine, 2018, 79, 3032-3044.	3.0	6
34	Rapid compressed sensing reconstruction of 3D non-Cartesian MRI. Magnetic Resonance in Medicine, 2018, 79, 2685-2692.	3.0	42
35	Self-Calibrating Wave-Encoded Variable-Density Single-Shot Fast Spin Echo Imaging. Journal of Magnetic Resonance Imaging, 2018, 47, 954-966.	3.4	13
36	ISLES 2016 and 2017-Benchmarking Ischemic Stroke Lesion Outcome Prediction Based on Multispectral MRI. Frontiers in Neurology, 2018, 9, 679.	2.4	117

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37	Quantitative susceptibility mapping using deep neural network: QSMnet. <i>NeuroImage</i> , 2018, 179, 199-206.	4.2	115
38	Variable-Density Single-Shot Fast Spin-Echo MRI with Deep Learning Reconstruction by Using Variational Networks. <i>Radiology</i> , 2018, 289, 366-373.	7.3	93
39	Abstract WP53: Improved Prediction of the Final Infarct From Acute Stroke Neuroimaging Using Deep Learning. <i>Stroke</i> , 2018, 49, .	2.0	1
40	Resolving phase ambiguity in dual-echo Dixon imaging using a projected power method. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2066-2076.	3.0	18
41	Improved cortical bone specificity in UTE MR Imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 684-695.	3.0	37
42	Formulation of image fusion as a constrained least squares optimization problem. <i>Journal of Medical Imaging</i> , 2017, 4, 014003.	1.5	3
43	Autocalibrating motion-corrected wave-encoding for highly accelerated free-breathing abdominal MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1757-1766.	3.0	10
44	Frequency shifting reduces but does not eliminate acoustic interference between echolocating bats: A theoretical analysis. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 2133-2142.	1.1	2
45	Comprehensive Multi-Dimensional MRI for the Simultaneous Assessment of Cardiopulmonary Anatomy and Physiology. <i>Scientific Reports</i> , 2017, 7, 5330.	3.3	36
46	Spectrally selective three-dimensional dynamic balanced steady-state free precession for hyperpolarized ¹³ C metabolic imaging with spectrally selective radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 963-975.	3.0	26
47	An RF-gated wireless power transfer system for wireless MRI receive arrays. <i>Concepts in Magnetic Resonance Part B</i> , 2017, 47B, .	0.7	15
48	A semiflexible 64-channel receive-only phased array for pediatric body MRI at 3T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1015-1021.	3.0	24
49	Comprehensive motion-compensated highly accelerated 4D flow MRI with ferumoxytol enhancement for pediatric congenital heart disease. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1355-1368.	3.4	92
50	Development and testing of hyperpolarized ¹³ C MR calibrationless parallel imaging. <i>Journal of Magnetic Resonance</i> , 2016, 262, 1-7.	2.1	17
51	Fat-suppressed alternating-SSFP for whole-brain fMRI using breath-hold and visual stimulus paradigms. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1978-1988.	3.0	4
52	Robust self-navigated body MRI using dense coil arrays. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 197-205.	3.0	34
53	Multiband RF pulses with improved performance via convex optimization. <i>Journal of Magnetic Resonance</i> , 2016, 262, 81-90.	2.1	10
54	Chemical shift separation with controlled aliasing for hyperpolarized ¹³ C metabolic imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 978-989.	3.0	11

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55	Fast pediatric 3D free-breathing abdominal dynamic contrast enhanced MRI with high spatiotemporal resolution. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 460-473.	3.4	80
56	Free-breathing pediatric MRI with nonrigid motion correction and acceleration. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 407-420.	3.4	117
57	Controlling radiofrequency-induced currents in guidewires using parallel transmit. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1790-1802.	3.0	45
58	T1-Dispersion in Articular Cartilage. <i>Cartilage</i> , 2015, 6, 113-122.	2.7	21
59	Clinical performance of a free-breathing spatiotemporally accelerated 3-D time-resolved contrast-enhanced pediatric abdominal MR angiography. <i>Pediatric Radiology</i> , 2015, 45, 1635-1643.	2.0	13
60	Clinical performance of contrast enhanced abdominal pediatric MRI with fast combined parallel imaging compressed sensing reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 13-25.	3.4	79
61	ESPIRiT—an eigenvalue approach to autocalibrating parallel MRI: Where SENSE meets GRAPPA. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 990-1001.	3.0	864
62	VERSE-guided numerical RF pulse design: A fast method for peak RF power control. <i>Magnetic Resonance in Medicine</i> , 2012, 67, spcone-spcone.	3.0	0
63	Response to comments on “Ensuring safety of implanted devices under MRI using reversed RF polarization”. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1517-1517.	3.0	0
64	SPIRiT: Iterative self-consistent parallel imaging reconstruction from arbitrary k -space. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 457-471.	3.0	641
65	Improved Pediatric MR Imaging with Compressed Sensing. <i>Radiology</i> , 2010, 256, 607-616.	7.3	219
66	A Practical Acceleration Algorithm for Real-Time Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 2042-2051.	8.9	29
67	Combining complex signal change in functional MRI. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1358-1360.	3.0	3
68	Noise Performance of a Precision Pulsed Electromagnet Power Supply for Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 75-86.	8.9	7
69	Implementation of the derivative back projection - finite Hilbert inverse algorithm in projection reconstruction MRI. , 2007, , .		0
70	Sparse MRI: The application of compressed sensing for rapid MR imaging. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1182-1195.	3.0	5,406
71	Real-time black-blood MRI using spatial presaturation. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 807-812.	3.4	22
72	Characterization and reduction of the transient response in steady-state MR imaging. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 149-158.	3.0	162

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73	Real-time interactive coronary MRA. Magnetic Resonance in Medicine, 2001, 46, 430-435.	3.0	33
74	Temperature mapping of frozen tissue using eddy current compensated half excitation RF pulses. Magnetic Resonance in Medicine, 2001, 46, 985-992.	3.0	65
75	Dualband spectral/spatial RF pulses for prostate MR spectroscopic imaging. Magnetic Resonance in Medicine, 2001, 46, 1079-1087.	3.0	103
76	Temperature quantitation and mapping of frozen tissue. Journal of Magnetic Resonance Imaging, 2001, 13, 99-104.	3.4	53
77	Rapid ventricular assessment using real-time interactive multislice MRI. Magnetic Resonance in Medicine, 2001, 45, 371-375.	3.0	22
78	Linear combination steady-state free precession MRI. Magnetic Resonance in Medicine, 2000, 43, 82-90.	3.0	129
79	Real-time color flow MRI. Magnetic Resonance in Medicine, 2000, 43, 251-258.	3.0	105
80	Partial-FOV reconstruction in dynamic spiral imaging. Magnetic Resonance in Medicine, 2000, 43, 429-439.	3.0	12
81	Real-Time Interactive MRI for Cardiac Applications. Computer Aided Surgery, 2000, 5, 133-133.	1.8	0
82	Ultra-short echo-time 2D time-of-flight MR angiography using a half-pulse excitation. Magnetic Resonance in Medicine, 1999, 41, 591-599.	3.0	35
83	MR imaging of articular cartilage using driven equilibrium. Magnetic Resonance in Medicine, 1999, 42, 695-703.	3.0	91
84	Nonsubtractive spiral phase contrast velocity imaging. Magnetic Resonance in Medicine, 1999, 42, 704-713.	3.0	14
85	Fluctuating equilibrium MRI. Magnetic Resonance in Medicine, 1999, 42, 876-883.	3.0	84
86	Interactive coronary MRI. Magnetic Resonance in Medicine, 1998, 40, 105-111.	3.0	36
87	Design of practical T2-selective RF excitation (TELEX) pulses. Magnetic Resonance in Medicine, 1998, 40, 890-899.	3.0	80
88	Improved solvent suppression and increased spatial excitation bandwidths for three-dimensional press CSI using phase-compensating spectral/spatial spin-echo pulses. Journal of Magnetic Resonance Imaging, 1997, 7, 745-757.	3.4	71
89	Angiographic Imaging with 2D RF Pulses. Magnetic Resonance in Medicine, 1997, 37, 260-267.	3.0	49
90	Reducing flow artifacts in echo-planar imaging. Magnetic Resonance in Medicine, 1997, 37, 436-447.	3.0	27

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91	RARE spiralT2-weighted imaging. Magnetic Resonance in Medicine, 1997, 37, 582-590.	3.0	18
92	Multifrequency interpolation for fast off-resonance correction. Magnetic Resonance in Medicine, 1997, 37, 785-792.	3.0	155
93	Background suppression with multiple inversion recovery nulling: Applications to projective angiography. Magnetic Resonance in Medicine, 1997, 37, 898-905.	3.0	71
94	Improved automatic off-resonance correction without a field map in spiral imaging. Magnetic Resonance in Medicine, 1997, 37, 906-913.	3.0	61
95	Consistent fat suppression with compensated spectral-spatial pulses. Magnetic Resonance in Medicine, 1997, 38, 198-206.	3.0	58
96	Real-time interactive MRI on a conventional scanner. Magnetic Resonance in Medicine, 1997, 38, 355-367.	3.0	226
97	Diffusion-weighted interleaved echo-planar imaging with a pair of orthogonal navigator echoes. Magnetic Resonance in Medicine, 1996, 35, 763-770.	3.0	216
98	Magnetic resonance fluoroscopy using spirals with variable sampling densities. Magnetic Resonance in Medicine, 1995, 34, 388-394.	3.0	130
99	Spiral imaging on a small-bore system at 4.7t. Magnetic Resonance in Medicine, 1995, 34, 580-585.	3.0	33
100	MR Spectroscopic imaging of collagen: Tendons and knee menisci. Magnetic Resonance in Medicine, 1995, 34, 647-654.	3.0	127
101	ShortTE phosphorus spectroscopy using a spin-echo pulse. Magnetic Resonance in Medicine, 1994, 32, 98-103.	3.0	38
102	Echo-planar spin-echo and inversion pulses. Magnetic Resonance in Medicine, 1993, 29, 776-782.	3.0	50
103	Spatially resolved and localized real-time velocity distribution. Magnetic Resonance in Medicine, 1993, 30, 207-212.	3.0	25
104	Localized real-time velocity spectra determination. Magnetic Resonance in Medicine, 1993, 30, 393-398.	3.0	23
105	Characterization of atherosclerosis with a 1.5-T imaging system. Journal of Magnetic Resonance Imaging, 1993, 3, 399-407.	3.4	84
106	Two-dimensional selective adiabatic pulses. Magnetic Resonance in Medicine, 1992, 24, 302-313.	3.0	31
107	Deblurring for non-2D fourier transform magnetic resonance imaging. Magnetic Resonance in Medicine, 1992, 25, 319-333.	3.0	207
108	Boron-11 imaging with a three-dimensional reconstruction method. Journal of Magnetic Resonance Imaging, 1992, 2, 47-52.	3.4	115

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109	Lipid-suppressed single-and multisection proton spectroscopic imaging of the human brain. Journal of Magnetic Resonance Imaging, 1992, 2, 253-262.	3.4	97
110	On the nature and reduction of the displacement artifact in flow images. Magnetic Resonance in Medicine, 1991, 22, 481-492.	3.0	131
111	Considerations of magnetic resonance angiography by selective inversion recovery. Magnetic Resonance in Medicine, 1988, 7, 472-484.	3.0	52
112	MR angiography by selective inversion recovery. Magnetic Resonance in Medicine, 1987, 4, 193-202.	3.0	167
113	Magnetic Resonance Angiography. IEEE Transactions on Medical Imaging, 1986, 5, 140-151.	8.9	124