

# Jeffrey L Duerk

## List of Publications by Year in descending order

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97  
papers

3,812  
citations

116194

36  
h-index

156644

58  
g-index

97  
all docs

97  
docs citations

97  
times ranked

2395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple Overlapping k-Space Junctions for Investigating Translating Objects (MOJITO). IEEE Transactions on Medical Imaging, 2010, 29, 339-349.	5.4	10
2	Characterization and reduction of saturation banding in multiplanar coherent and incoherent steady-state imaging. Magnetic Resonance in Medicine, 2010, 63, 1415-1421.	1.9	6
3	Whole animal imaging. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 398-421.	6.6	28
4	MR Monitoring of NaCl-enhanced Radiofrequency Ablations: Observations on Low- and High-Field-Strength MR Images with Pathologic Correlation. Radiology, 2010, 254, 449-459.	3.6	8
5	Halting the effects of flow enhancement with effective intermittent zeugmatographic encoding (HEFEWEIZEN) in SSFP. Journal of Magnetic Resonance Imaging, 2009, 29, 1163-1174.	1.9	0
6	Pulse sequences and system interfaces for interventional and real-time MRI. Journal of Magnetic Resonance Imaging, 2008, 27, 267-275.	1.9	43
7	A Technique for MRI-Guided Transrectal Deep Pelvic Abscess Drainage. American Journal of Roentgenology, 2008, 191, 1182-1185.	1.0	10
8	In vivo small animal imaging for early assessment of therapeutic efficacy of photodynamic therapy for prostate cancer. , 2007, 6511, 17.		7
9	Intraoperative MRI with a Rotating, Tiltable Surgical Table: A Time-Use Study and Clinical Results in 122 Patients. American Journal of Roentgenology, 2007, 189, 1096-1103.	1.0	31
10	Analysis of signal-to-noise behavior in Cartesian continuous sampling sequences: Predictions and experimental validation of opportunities for improved image SNR. Magnetic Resonance in Medicine, 2007, 58, 819-824.	1.9	2
11	High-field magnetic resonance imaging of the response of human prostate cancer to Pc 4-based photodynamic therapy in an animal model. Lasers in Surgery and Medicine, 2007, 39, 723-730.	1.1	30
12	Magnetic resonance imaging and model prediction for thermal ablation of tissue. Journal of Magnetic Resonance Imaging, 2007, 26, 123-132.	1.9	10
13	A new type of susceptibility-artefact-based magnetic resonance angiography: intra-arterial injection of superparamagnetic iron oxide particles (SPIO) A Resovist® in combination with TrueFisp imaging: a feasibility study. Contrast Media and Molecular Imaging, 2006, 1, 189-195.	0.4	6
14	Toward rapid high resolution in vivo intravascular MRI: Evaluation of vessel wall conspicuity in a porcine model using multiple imaging protocols. Journal of Magnetic Resonance Imaging, 2006, 23, 135-144.	1.9	25
15	Image-guided and -monitored renal artery stenting using only MRI. Journal of Magnetic Resonance Imaging, 2006, 23, 619-627.	1.9	41
16	Deformable and rigid registration of MRI and microPET images for photodynamic therapy of cancer in mice. Medical Physics, 2006, 33, 753-760.	1.6	42
17	Combined use of the intravascular blood-pool agent, gadomer, and carbon dioxide: A novel type of double-contrast magnetic resonance angiography (MRA). Journal of Magnetic Resonance Imaging, 2005, 21, 645-649.	1.9	11
18	MR-Guided Endovascular Interventions: Device Visualization, Tracking, Navigation, Clinical Applications, and Safety Aspects. Magnetic Resonance Imaging Clinics of North America, 2005, 13, 431-439.	0.6	35

#	ARTICLE	IF	CITATIONS
19	Semiautomatic Nonrigid Registration for the Prostate and Pelvic MR Volumes1. Academic Radiology, 2005, 12, 815-824.	1.3	38
20	MR image-guided needle biopsies with a combination of augmented reality and MRI: A pilot study in phantoms and animals. International Congress Series, 2005, 1281, 424-428.	0.2	5
21	A Review of Technical Advances in Interventional Magnetic Resonance Imaging1. Academic Radiology, 2005, 12, 1089-1099.	1.3	35
22	Percutaneous MR Imaging-guided Radiofrequency Interstitial Thermal Ablation of Tongue Base in Porcine Models: Implications for Obstructive Sleep Apnea Syndrome. Radiology, 2004, 230, 359-368.	3.6	17
23	Phase II Clinical Trial of Interactive MR Imaging-guided Interstitial Radiofrequency Thermal Ablation of Primary Kidney Tumors: Initial Experience. Radiology, 2004, 232, 835-845.	3.6	155
24	The Catheter-Driven MRI Scanner: A New Approach to Intravascular Catheter Tracking and Imaging-Parameter Adjustment for Interventional MRI. American Journal of Roentgenology, 2004, 183, 391-395.	1.0	46
25	MRI-Guided Radiofrequency Thermal Ablation of Normal Lung Tissue: In Vivo Study in a Rabbit Model. American Journal of Roentgenology, 2004, 183, 599-603.	1.0	19
26	Comparison of ECG-Gated Rectilinear vs. Real-Time Radial K-Space Sampling Schemes in Cine True-FISP Cardiac MRI. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 793-802.	1.6	16
27	Active device tracking and high-resolution intravascular MRI using a novel catheter-based, opposed-solenoid phased array coil. Magnetic Resonance in Medicine, 2004, 51, 668-675.	1.9	95
28	Optimal design of k-space trajectories using a multi-objective genetic algorithm. Magnetic Resonance in Medicine, 2004, 52, 831-841.	1.9	11
29	Comparison of MR imaging sequences for liver and head and neck interventions. Academic Radiology, 2004, 11, 506-515.	1.3	9
30	Variation correction algorithm: Analysis of phase suppression and thermal profile fidelity for proton resonance frequency magnetic resonance thermometry at 0.2 T. Journal of Magnetic Resonance Imaging, 2003, 17, 227-240.	1.9	11
31	Keyhole Dixon method for faster, perceptually equivalent fat suppression. Journal of Magnetic Resonance Imaging, 2003, 18, 103-112.	1.9	8
32	Real-time catheter tracking and adaptive imaging. Journal of Magnetic Resonance Imaging, 2003, 18, 621-626.	1.9	60
33	Endoscopically inserted endoluminal receiver coil for high-resolution magnetic resonance imaging of the pancreas: Initial results in an animal model. Gastrointestinal Endoscopy, 2003, 57, 106-110.	0.5	3
34	Slice-to-volume registration and its potential application to interventional mri-guided radio-frequency thermal ablation of prostate cancer. IEEE Transactions on Medical Imaging, 2003, 22, 515-525.	5.4	93
35	Do Surgical Clips Interfere with Radiofrequency Thermal Ablation?. American Journal of Roentgenology, 2003, 180, 1557-1560.	1.0	23
36	Perceptual difference paradigm for analyzing image quality of fast MRI techniques. , 2003, , .		2

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37	MR Imagingâ€“Guided Vascular Procedures Using CO <sub>2</sub> as a Contrast Agent. American Journal of Roentgenology, 2003, 181, 485-489.	1.0	12
38	Femur: MR Imagingâ€“guided Radio-frequency Ablation in a Porcine Modelâ€” Feasibility Study. Radiology, 2002, 225, 471-478.	3.6	24
39	Automatic MR volume registration and its evaluation for the pelvis and prostate. Physics in Medicine and Biology, 2002, 47, 823-838.	1.6	83
40	MR Imagingâ€“guided Radio-frequency Thermal Ablation of the Lumbar Vertebrae in Porcine Models. Radiology, 2002, 224, 452-462.	3.6	76
41	Validation of a human vision model for image quality evaluation of fast interventional magnetic resonance imaging. Journal of Electronic Imaging, 2002, 11, 224.	0.5	27
42	Automatic 3D Registration for Interventional MRI-Guided Treatment of Prostate Cancer. Computer Aided Surgery, 2002, 7, 257-267.	1.8	36
43	Automatic 3D registration for interventional MRI-guided treatment of prostate cancer. Computer Aided Surgery, 2002, 7, 257-267.	1.8	29
44	A brief review of hardware for catheter tracking in magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 13, 199-208.	1.1	19
45	A multielement RF coil for MRI guidance of interventional devices. Journal of Magnetic Resonance Imaging, 2001, 14, 56-62.	1.9	37
46	A method for fast 3D tracking using tuned fiducial markers and a limited projection reconstruction FISP (LPR-FISP) sequence. Journal of Magnetic Resonance Imaging, 2001, 14, 617-627.	1.9	52
47	Modified block uniform resampling (BURS) algorithm using truncated singular value decomposition: Fast accurate gridding with noise and artifact reduction. Magnetic Resonance in Medicine, 2001, 46, 1189-1201.	1.9	27
48	Radial keyhole sequences for low field projection reconstruction interventional MRI. Journal of Magnetic Resonance Imaging, 2001, 13, 142-151.	1.9	36
49	How does alteration of hepatic blood flow affect liver perfusion and radiofrequency-induced thermal lesion size in rabbit liver?. Journal of Magnetic Resonance Imaging, 2001, 13, 57-63.	1.9	63
50	Two-step navigatorless correction algorithm for radial k-space MRI acquisitions. Magnetic Resonance in Medicine, 2001, 45, 277-288.	1.9	30
51	MR imaging-guided radiofrequency thermal ablation in the porcine brain at 0.2 T. European Radiology, 2001, 11, 884-892.	2.3	24
52	Segmented k-Space and Real-Time Cardiac Cine MR Imaging with Radial Trajectories. Radiology, 2001, 221, 827-836.	3.6	59
53	Perfusion-Modulated MR Imagingâ€“Guided Radiofrequency Ablation of the Kidney in a Porcine Model. American Journal of Roentgenology, 2001, 177, 151-158.	1.0	45
54	Pulse Sequences for Interventional Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2000, 11, 147-162.	0.7	23

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55	Magnetic Resonance Image-Guided Biopsy and Aspiration. Topics in Magnetic Resonance Imaging, 2000, 11, 173-183.	0.7	44
56	Thermal lesion conspicuity following interstitial radiofrequency thermal tumor ablation in humans: A comparison of STIR, turbo spin-echo T2-weighted, and contrast-enhanced T1-weighted MR images at 0.2 T. Journal of Magnetic Resonance Imaging, 2000, 12, 584-589.	1.9	43
57	Active MR guidance of interventional devices with target-navigation. Magnetic Resonance in Medicine, 2000, 44, 56-65.	1.9	53
58	Applying the uniform resampling (URS) algorithm to a lissajous trajectory: Fast image reconstruction with optimal gridding. Magnetic Resonance in Medicine, 2000, 44, 766-781.	1.9	30
59	Percutaneous Magnetic Resonance Image-Guided Biopsy and Aspiration in the Head and Neck. Laryngoscope, 2000, 110, 382-385.	1.1	29
60	Low-Flow Vascular Malformations in the Head and Neck: Safety and Feasibility of MR Imaging-guided Percutaneous Sclerotherapy—Preliminary Experience with 14 Procedures in Three Patients. Radiology, 1999, 211, 566-570.	3.6	64
61	MR Imaging-guided Radio-frequency Thermal Ablation in the Pancreas in a Porcine Model with a Modified Clinical C-Arm System. Radiology, 1999, 213, 461-467.	3.6	40
62	Estimation of Tendon Moment Arms from Three-Dimensional Magnetic Resonance Images. Annals of Biomedical Engineering, 1999, 27, 247-256.	1.3	22
63	Temperature measurement using echo-shifted FLASH at low field for interventional MRI. Journal of Magnetic Resonance Imaging, 1999, 9, 138-145.	1.9	54
64	MRI-guided radiofrequency thermal ablation of implanted VX2 liver tumors in a rabbit model: Demonstration of feasibility at 0.2 T. Magnetic Resonance in Medicine, 1999, 42, 141-149.	1.9	64
65	Fast T2-weighted imaging by PSIF at 0.2 T for interventional MRI. Magnetic Resonance in Medicine, 1999, 42, 335-344.	1.9	43
66	Improved device definition in interventional magnetic resonance imaging using a rotated stripes keyhole acquisition. Magnetic Resonance in Medicine, 1999, 42, 554-560.	1.9	17
67	Signal formation in echo-shifted sequences. Magnetic Resonance in Medicine, 1999, 42, 864-875.	1.9	18
68	<title>Evaluation of keyhole MR imaging with a human visual response model</title>. , 1999, 3663, 232.		0
69	Invited. Interactive MRI-guided radiofrequency interstitial thermal ablation of abdominal tumors: Clinical trial for evaluation of safety and feasibility. Journal of Magnetic Resonance Imaging, 1998, 8, 40-47.	1.9	234
70	MR monitoring of MR-guided radiofrequency thermal ablation of normal liver in an animal model. Journal of Magnetic Resonance Imaging, 1998, 8, 64-69.	1.9	89
71	Calculated RF electric field and temperature distributions in RF thermal ablation: Comparison with gel experiments and liver imaging. Journal of Magnetic Resonance Imaging, 1998, 8, 70-76.	1.9	25
72	Evaluation of 3D image registration as applied to MR-guided thermal treatment of liver cancer. Journal of Magnetic Resonance Imaging, 1998, 8, 77-84.	1.9	46

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73	A method for simultaneous RF ablation and MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 110-114.	1.9	76
74	Developing a multichannel temperature probe for interventional MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 197-202.	1.9	8
75	Invited. Remember true FISP? a high SNR, near 1-second imaging method for T2-like contrast in interventional MRI at .2 T. Journal of Magnetic Resonance Imaging, 1998, 8, 203-208.	1.9	208
76	Shifted rotated keyhole imaging and active tip-tracking for interventional procedure guidance. Journal of Magnetic Resonance Imaging, 1998, 8, 258-261.	1.9	32
77	Fast "real time" imaging with different k-space update strategies for interventional procedures. Journal of Magnetic Resonance Imaging, 1998, 8, 944-954.	1.9	49
78	Inadequacy of motion correction algorithms in functional MRI: Role of susceptibility-induced artifacts. Journal of Magnetic Resonance Imaging, 1997, 7, 365-370.	1.9	73
79	Generation and Observation of Radio Frequency Thermal Lesion Ablation for Interventional Magnetic Resonance Imaging. Investigative Radiology, 1997, 32, 466-474.	3.5	30
80	Application of keyhole imaging to interventional MRI: A simulation study to predict sequence requirements. Journal of Magnetic Resonance Imaging, 1996, 6, 918-924.	1.9	55
81	A simulation study to assess SVD encoding for interventional MRI: Effect of object rotation and needle insertion. Journal of Magnetic Resonance Imaging, 1996, 6, 957-960.	1.9	14
82	Analytical resolution and noise characteristics of linearly reconstructed magnetic resonance data with arbitrary k-space sampling. Magnetic Resonance in Medicine, 1995, 34, 170-178.	1.9	45
83	Use of superparamagnetic contrast media to suppress signal from flowing spins: Preliminary experience. Journal of Magnetic Resonance Imaging, 1994, 4, 413-417.	1.9	3
84	MR susceptometry: an external-phantom method for measuring bulk susceptibility from field-echo phase reconstruction maps. Journal of Magnetic Resonance Imaging, 1994, 4, 809-818.	1.9	35
85	Experimental confirmation of phase encoding of instantaneous derivatives of position. Magnetic Resonance in Medicine, 1994, 32, 77-87.	1.9	12
86	Review of MRI gradient waveform design methods with application in the study of motion. Concepts in Magnetic Resonance, 1993, 5, 105-122.	1.3	10
87	MRI gradient waveform design by numerical optimization. Magnetic Resonance in Medicine, 1993, 29, 498-504.	1.9	15
88	Some noise properties of 2DFT MR images from asymmetrically sampled data. Medical Physics, 1992, 19, 1191-1194.	1.6	4
89	Intravascular (catheter) NMR receiver probe: Preliminary design analysis and application to canine iliofemoral imaging. Magnetic Resonance in Medicine, 1992, 24, 343-357.	1.9	108
90	Signal-to-noise, resolution, and bias function analysis of asymmetric sampling with zero-padded magnitude ft reconstruction. Magnetic Resonance in Medicine, 1992, 27, 247-269.	1.9	22

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91	Atypical appearance of lipomatous tumors on MR images: High signal intensity with fat-suppression STIR sequences. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 477-480.	1.9	16
92	Significance of the point of expansion in interpretation of gradient moments and motion sensitivity. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 569-577.	1.9	44
93	Theoretical aspects of motion sensitivity and compensation in echo-planar imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 643-650.	1.9	72
94	Multiecho multimoment refocussing of motion in magnetic resonance imaging: MEM-MO-RE. <i>Magnetic Resonance Imaging</i> , 1990, 8, 535-541.	1.0	6
95	Modified gradients for motion suppression: Variable echo time and variable bandwidth. <i>Magnetic Resonance Imaging</i> , 1990, 8, 141-151.	1.0	8
96	Distinguishing viable from infarcted myocardium after experimental ischemia and reperfusion by using nuclear magnetic resonance imaging. <i>Journal of the American College of Cardiology</i> , 1990, 15, 1355-1364.	1.2	60
97	Motion Artifact Suppression Technique (MAST) for MR Imaging. <i>Journal of Computer Assisted Tomography</i> , 1987, 11, 369-377.	0.5	199