

Jonathan S Lewin

List of Publications by Year in descending order

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78
papers

3,673
citations

125106

35
h-index

145109

60
g-index

80
all docs

80
docs citations

80
times ranked

3024
citing authors

#	ARTICLE	IF	CITATIONS
1	MR-guided sclerotherapy of low-flow vascular malformations using T ₂ -weighted interrupted bSSFP (T ₂ -W-iSSFP): Comparison of pulse sequences for visualization and needle guidance. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 525-535.	1.9	8
2	Percutaneous Punctures with MR Imaging Guidance: Comparison between MR Imaging-enhanced Fluoroscopic Guidance and Real-time MR Imaging Guidance. <i>Radiology</i> , 2013, 266, 912-919.	3.6	15
3	MRI-Guided RF Ablation in the Kidney. <i>Medical Radiology</i> , 2012, , 319-339.	0.0	1
4	MR Monitoring of NaCl-enhanced Radiofrequency Ablations: Observations on Low- and High-Field-Strength MR Images with Pathologic Correlation. <i>Radiology</i> , 2010, 254, 449-459.	3.6	8
5	Renal Cell Carcinoma: Follow-Up with Magnetic Resonance Imaging After Percutaneous Radiofrequency Ablation. , 2010, , 108-113.		1
6	Freehand Real-Time MRI-Guided Lumbar Spinal Injection Procedures at 1.5 T: Feasibility, Accuracy, and Safety. <i>American Journal of Roentgenology</i> , 2009, 192, W161-W167.	1.0	75
7	MR-guided biopsy: A review of current techniques and applications. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 311-325.	1.9	101
8	Intraoperative MRI with a Rotating, Tilttable Surgical Table: A Time-Use Study and Clinical Results in 122 Patients. <i>American Journal of Roentgenology</i> , 2007, 189, 1096-1103.	1.0	31
9	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. <i>Contrast Media and Molecular Imaging</i> , 2006, 1, 189-195.	0.4	6
10	Toward rapid high resolution in vivo intravascular MRI: Evaluation of vessel wall conspicuity in a porcine model using multiple imaging protocols. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 135-144.	1.9	25
11	Model-free parameters from dynamic contrast-enhanced-MRI: Sensitivity to EES volume fraction and bolus timing. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 586-594.	1.9	25
12	An Augmented Reality System for MR Image-guided Needle Biopsy: Initial Results in a Swine Model. <i>Radiology</i> , 2006, 238, 497-504.	3.6	114
13	Combined use of the intravascular blood-pool agent, gadomer, and carbon dioxide: A novel type of double-contrast magnetic resonance angiography (MRA). <i>Journal of Magnetic Resonance Imaging</i> , 2005, 21, 645-649.	1.9	11
14	MR Imaging Follow-up after Percutaneous Radiofrequency Ablation of Renal Cell Carcinoma: Findings in 18 Patients during First 6 Months. <i>Radiology</i> , 2005, 235, 1065-1071.	3.6	119
15	Percutaneous Biopsy from Blinded to MR Guided: An Update on Current Techniques and Applications. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2005, 13, 441-464.	0.6	14
16	Radiofrequency Thermal Ablation: The Role of MR Imaging in Guiding and Monitoring Tumor Therapy. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2005, 13, 561-581.	0.6	23
17	MR image-guided needle biopsies with a combination of augmented reality and MRI: A pilot study in phantoms and animals. <i>International Congress Series</i> , 2005, 1281, 424-428.	0.2	5
18	The Interventional MR Imaging Suite: Magnet Designs and Equipment Requirements. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2005, 13, 401-413.	0.6	7

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19	Magnetic Resonance Imaging Guidance of Radiofrequency Thermal Ablation for Cancer Treatment. , 2005, , 167-181.		0
20	Three-dimensional comparison of interventional MR radiofrequency ablation images with tissue response. Computer Aided Surgery, 2004, 9, 185-191.	1.8	4
21	Phase II Clinical Trial of Interactive MR Imagingâ€“guided Interstitial Radiofrequency Thermal Ablation of Primary Kidney Tumors: Initial Experience. Radiology, 2004, 232, 835-845.	3.6	155
22	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
23	Automatic model-based evaluation of magnetic resonance-guided radio frequency ablation lesions with histological correlation. Journal of Magnetic Resonance Imaging, 2004, 19, 245-254.	1.9	21
24	Radiofrequency thermal ablation: Correlation of hyperacute MR lesion images with tissue response. Journal of Magnetic Resonance Imaging, 2004, 20, 475-486.	1.9	50
25	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
26	Comparison of MR imaging sequences for liver and head and neck interventions. Academic Radiology, 2004, 11, 506-515.	1.3	9
27	Magnetic Resonance Imaging-Guided and -Monitored Radiofrequency Interstitial Thermal Cancer Ablation. , 2004, , 269-296.		0
28	Three-dimensional method for comparing in vivo interventional MR images of thermally ablated tissue with tissue response. Journal of Magnetic Resonance Imaging, 2003, 18, 90-102.	1.9	44
29	Sub-acute changes in lesion conspicuity and geometry following MR-guided radiofrequency ablation. Journal of Magnetic Resonance Imaging, 2003, 18, 353-359.	1.9	22
30	Radio-frequency-induced thermal lesions: Subacute magnetic resonance appearance and histological correlation. Journal of Magnetic Resonance Imaging, 2003, 18, 487-495.	1.9	28
31	Intraoperative MR imaging. Magnetic Resonance Imaging Clinics of North America, 2003, 11, 431-447.	0.6	19
32	Do Surgical Clips Interfere with Radiofrequency Thermal Ablation?. American Journal of Roentgenology, 2003, 180, 1557-1560.	1.0	23
33	MR Imagingâ€“Guided Vascular Procedures Using CO2as a Contrast Agent. American Journal of Roentgenology, 2003, 181, 485-489.	1.0	12
34	Image Registration and Fusion for Interventional MRI Guided Thermal Ablation of the Prostate Cancer. Lecture Notes in Computer Science, 2003, , 364-372.	1.0	13
35	Three-dimensional correlation of MR images to muscle tissue response for interventional MRI thermal ablation. , 2003, 5029, 202.		3
36	Three Dimensional Comparison of Interventional MR Radiofrequency Ablation Images with Tissue Response. Lecture Notes in Computer Science, 2003, , 24-31.	1.0	5

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37	Femur: MR Imagingâ€“guided Radio-frequency Ablation in a Porcine Modelâ€” Feasibility Study. Radiology, 2002, 225, 471-478.	3.6	24
38	MR Imagingâ€“guided Radio-frequency Thermal Ablation of the Lumbar Vertebrae in Porcine Models. Radiology, 2002, 224, 452-462.	3.6	76
39	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
40	Three-Dimensional Model of Lesion Geometry for Evaluation of MR-Guided Thermal Ablation Therapy. Academic Radiology, 2002, 9, 1128-1138.	1.3	13
41	A phase I pharmacokinetic and translational study of the novel vascular targeting agent combretastatin a-4 phosphate on a single-dose intravenous schedule in patients with advanced cancer. Cancer Research, 2002, 62, 3408-16.	0.4	321
42	<title>Three-dimensional correlation of MR images to muscle tissue response for interventional MRI thermal ablation</title>. , 2001, , .		5
43	A multielement RF coil for MRI guidance of interventional devices. Journal of Magnetic Resonance Imaging, 2001, 14, 56-62.	1.9	37
44	Radial keyhole sequences for low field projection reconstruction interventional MRI. Journal of Magnetic Resonance Imaging, 2001, 13, 142-151.	1.9	36
45	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
46	Two-step navigatorless correction algorithm for radialk-space MRI acquisitions. Magnetic Resonance in Medicine, 2001, 45, 277-288.	1.9	30
47	MR imaging-guided radiofrequency thermal ablation in the porcine brain at 0.2 T. European Radiology, 2001, 11, 884-892.	2.3	24
48	Segmented k-Space and Real-Time Cardiac Cine MR Imaging with Radial Trajectories. Radiology, 2001, 221, 827-836.	3.6	59
49	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
50	Pulse Sequences for Interventional Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2000, 11, 147-162.	0.7	23
51	Magnetic Resonance Image-Guided Biopsy and Aspiration. Topics in Magnetic Resonance Imaging, 2000, 11, 173-183.	0.7	44
52	Intraoperative magnetic resonance image guidance in neurosurgery. Journal of Magnetic Resonance Imaging, 2000, 12, 512-524.	1.9	49
53	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
54	Active MR guidance of interventional devices with target-navigation. Magnetic Resonance in Medicine, 2000, 44, 56-65.	1.9	53

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55	Percutaneous Magnetic Resonance Image-guided Biopsy and Aspiration in the Head and Neck. Laryngoscope, 2000, 110, 382-385.	1.1	29
56	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
57	Effects of Superparamagnetic Iron Oxide on Radiofrequency-induced Temperature Distribution: In Vitro Measurements in Polyacrylamide Phantoms and in Vivo Results in a Rabbit Liver Model. Radiology, 1999, 212, 459-466.	3.6	35
58	Temperature measurement using echo-shifted FLASH at low field for interventional MRI. Journal of Magnetic Resonance Imaging, 1999, 9, 138-145.	1.9	54
59	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
60	Fast T2-weighted imaging by PSIF at 0.2 T for interventional MRI. Magnetic Resonance in Medicine, 1999, 42, 335-344.	1.9	43
61	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
62	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
63	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
64	A method for simultaneous RF ablation and MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 110-114.	1.9	76
65	Developing a multichannel temperature probe for interventional MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 197-202.	1.9	8
66	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
67	Shifted rotated keyhole imaging and active tip-tracking for interventional procedure guidance. Journal of Magnetic Resonance Imaging, 1998, 8, 258-261.	1.9	32
68	Brain Activation During Silent Word Generation Evaluated with Functional MRI. Brain and Language, 1998, 64, 231-256.	0.8	144
69	Functional magnetic resonance imaging in schizophrenia: initial methodology and evaluation of the motor cortex. Psychiatry Research - Neuroimaging, 1997, 74, 13-23.	0.9	35
70	Massive osteolysis of the skull base. Pediatric Radiology, 1997, 27, 265-267.	1.1	21
71	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
72	Determination of laser-induced temperature distributions using echo-shifted turboflash. Magnetic Resonance in Medicine, 1997, 38, 238-245.	1.9	54

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73	Generation and Observation of Radio Frequency Thermal Lesion Ablation for Interventional Magnetic Resonance Imaging. Investigative Radiology, 1997, 32, 466-474.	3.5	30
74	Assessment of cerebral blood flow reserve using functional magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 1996, 6, 718-725.	1.9	31
75	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
76	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
77	Cortical Localization of Human Sustained Attention: Detection with Functional MR Using a Visual Vigilance Paradigm. Journal of Computer Assisted Tomography, 1996, 20, 695-701.	0.5	120
78	Phase-contrast MR angiography with reduced acquisition time: New concepts in sequence design. Journal of Magnetic Resonance Imaging, 1991, 1, 415-422.	1.9	83