

Stephen J Riederer

List of Publications by Year in descending order

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130
papers

6,268
citations

81900

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69250

77
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131
docs citations

131
times ranked

4008
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross correlation-based misregistration correction for super resolution T2-weighted spin-echo images: application to prostate. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1350-1363.	3.0	1
2	Modified acquisition strategy for reduced motion artifact in super resolution FSE multislice MRI: Application to prostate. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2537-2550.	3.0	6
3	Use of k-space for high through-plane resolution in multislice MRI: Application to prostate. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3691-3704.	3.0	5
4	Time-resolved contrast-enhanced MR angiography with single-echo Dixon fat suppression. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1556-1567.	3.0	4
5	Robust and efficient pharmacokinetic parameter non-linear least squares estimation for dynamic contrast enhanced MRI of the prostate. <i>Magnetic Resonance Imaging</i> , 2018, 48, 50-61.	1.8	8
6	Conventional vs. reduced field of view diffusion weighted imaging of the prostate: Comparison of image quality, correlation with histology, and inter-reader agreement. <i>Magnetic Resonance Imaging</i> , 2018, 47, 67-76.	1.8	32
7	Technical Aspects of Contrast-enhanced MR Angiography: Current Status and New Applications. <i>Magnetic Resonance in Medical Sciences</i> , 2018, 17, 3-12.	2.0	23
8	Improved performance of prostate DCE-MRI using a 32-coil vs. 12-coil receiver array. <i>Magnetic Resonance Imaging</i> , 2017, 39, 15-23.	1.8	5
9	Dual echo Dixon imaging with a constrained phase signal model and graph cuts reconstruction. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2203-2215.	3.0	8
10	Improved Receiver Coil Arrays for Real-Time Contrast-Enhanced MR Angiography of the Peripheral Vasculature. <i>IFMBE Proceedings</i> , 2016, , 292-295.	0.3	0
11	Improved receiver arrays and optimized parallel imaging accelerations applied to time-resolved 3D fluoroscopically tracked peripheral runoff CE-MRA. <i>Magnetic Resonance Imaging</i> , 2016, 34, 280-288.	1.8	2
12	Dixon-type and subtraction-type contrast-enhanced magnetic resonance angiography: A theoretical and experimental comparison of SNR and CNR. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 81-92.	3.0	8
13	Selection and evaluation of optimal two-dimensional CAIPIRINHA kernels applied to time-resolved three-dimensional CE-MRA. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2234-2242.	3.0	5
14	Recent advances in 3D time-resolved contrast-enhanced MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 3-22.	3.4	31
15	Advanced image reconstruction strategies for 4D prostate DCE-MRI: steps toward clinical practicality. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
16	Pretreatment imaging of peripheral vascular malformations. <i>Journal of Vascular Diagnostics</i> , 2014, 2014, 121.	0.2	4
17	An efficient ADMM-based sparse reconstruction strategy for multi-level sampled MRI. , 2014, , .		3
18	Three-Station Three-dimensional Bolus-Chase MR Angiography with Real-time Fluoroscopic Tracking. <i>Radiology</i> , 2014, 272, 241-251.	7.3	8

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19	Vascular masking for improved unfolding in 2D SENSE-accelerated 3D contrast-enhanced MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1161-1170.	3.4	4
20	A prospective randomized controlled study of erythromycin on gastric and small intestinal distention: Implications for MR enterography. <i>European Journal of Radiology</i> , 2014, 83, 2001-2006.	2.6	8
21	Comparison of manual and semiautomated techniques for analyzing gastric volumes with MRI in humans. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, G582-G587.	3.4	16
22	Acceleration apportionment: A method of improved 2D SENSE acceleration applied to 3D contrast-enhanced MR angiography. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 672-680.	3.0	9
23	Estimating T_1 from multichannel variable flip angle SPGR sequences. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1787-1794.	3.0	23
24	Prospective Comparison of Cartesian Acquisition with Projection-like Reconstruction Magnetic Resonance Angiography with Computed Tomography Angiography for Evaluation of below-the-Knee Runoff. <i>Journal of Vascular and Interventional Radiology</i> , 2013, 24, 392-399.	0.5	8
25	The use of real-time MRI techniques for imaging an extended field of view in magnetic resonance angiography. , 2013, , .		0
26	Buildup of image quality in view-shared time-resolved 3D CE-MRA. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 348-357.	3.0	10
27	High temporal and spatial resolution imaging of peripheral vascular malformations. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 933-942.	3.4	13
28	Time-resolved dual-station calf 3-dimensional bolus chase MR angiography with fluoroscopic tracking. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 1168-1178.	3.4	4
29	Time-Resolved, Contrast-Enhanced MR Angiography Using Cartesian Methods. , 2012, , 75-88.		0
30	High temporal and spatial resolution 3D time-resolved contrast-enhanced magnetic resonance angiography of the hands and feet. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 2-12.	3.4	21
31	Sparse-CAPR: Highly accelerated 4D CE-MRA with parallel imaging and nonconvex compressive sensing. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1019-1032.	3.0	38
32	High spatial and temporal resolution imaging of the arterial vasculature of the lower extremity with contrast enhanced mr angiography. <i>Clinical Anatomy</i> , 2011, 24, 478-488.	2.7	5
33	Contrast-enhanced MR Angiography of the Abdomen with Highly Accelerated Acquisition Techniques. <i>Radiology</i> , 2011, 261, 587-597.	7.3	10
34	Max CAPR: High-resolution 3D contrast-enhanced MR angiography with acquisition times under 5 seconds. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1171-1181.	3.0	13
35	Fast inversion recovery magnetic resonance angiography of the intracranial arteries. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1648-1658.	3.0	9
36	Time-resolved bolus-chase MR angiography with real-time triggering of table motion. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 629-637.	3.0	12

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37	The use of Cartesian k-space sampling techniques for high quality 3D time-resolved imaging of the cardiovascular system. , 2010, , .		0
38	Peripheral Vasculature: High-Temporal- and High-Spatial-Resolution Three-dimensional Contrast-enhanced MR Angiography. Radiology, 2009, 253, 831-843.	7.3	44
39	Time-of-Arrival Mapping at Three-dimensional Time-resolved Contrast-enhanced MR Angiography. Radiology, 2009, 253, 532-542.	7.3	20
40	Controlled experimental study depicting moving objects in viewâ€shared timeâ€resolved 3D MRA. Magnetic Resonance in Medicine, 2009, 62, 85-95.	3.0	23
41	Inversion recovery with embedded selfâ€calibration (IRES). Magnetic Resonance in Medicine, 2009, 62, 459-467.	3.0	1
42	Intracranial contrastâ€enhanced magnetic resonance venography with 6.4â€fold sensitivity encoding at 1.5 and 3.0 Tesla. Journal of Magnetic Resonance Imaging, 2008, 27, 653-658.	3.4	12
43	3D high temporal and spatial resolution contrastâ€enhanced MR angiography of the whole brain. Magnetic Resonance in Medicine, 2008, 60, 749-760.	3.0	86
44	Will Inversion Recovery with On-Resonant Water Suppression Be Another Way to Routinely Exploit Off-Resonance Effects with MR Imaging?. Radiology, 2008, 249, 399-400.	7.3	1
45	High-Spatial-Resolution Contrast-enhanced MR Angiography of the Intracranial Venous System with Fourfold Accelerated Two-dimensional Sensitivity Encoding ¹ . Radiology, 2007, 243, 853-861.	7.3	24
46	Intrinsic signal amplification in the application of 2D SENSE parallel imaging to 3D contrastâ€enhanced elliptical centric MRA and MRV. Magnetic Resonance in Medicine, 2007, 58, 855-864.	3.0	23
47	Effect of Aging on Anorectal and Pelvic Floor Functions in Females. Diseases of the Colon and Rectum, 2006, 49, 1726-1735.	1.3	107
48	Undersampled elliptical centric view-order for improved spatial resolution in contrast-enhanced MR angiography. Magnetic Resonance in Medicine, 2006, 55, 50-58.	3.0	31
49	Combination of 2D sensitivity encoding and 2D partial fourier techniques for improved acceleration in 3D contrast-enhanced MR angiography. Magnetic Resonance in Medicine, 2006, 55, 16-22.	3.0	31
50	Numerical equilibration of signal intensity and spatial resolution in time-resolved continuously moving table imaging. Magnetic Resonance in Medicine, 2006, 55, 694-699.	3.0	1
51	Contrast-enhanced MR Angiography of the Peripheral Vasculature with a Continuously Moving Table and Modified Elliptical Centric Acquisition. Radiology, 2006, 240, 222-229.	7.3	10
52	Real-Time Tracking of Contrast Bolus Propagation in Continuously Moving Table MR Angiography. Lecture Notes in Computer Science, 2006, 9, 824-831.	1.3	0
53	Dual-velocity continuously moving table acquisition for contrast-enhanced peripheral magnetic resonance angiography. Magnetic Resonance in Medicine, 2005, 53, 110-117.	3.0	34
54	Variable field of view for spatial resolution improvement in continuously moving table magnetic resonance imaging. Magnetic Resonance in Medicine, 2005, 54, 146-151.	3.0	8

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55	The Whitaker Foundation: 25 years of support for young investigators in magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1241-1242.	3.0	0
56	Recovery of phase inconsistencies in continuously moving table extended field of view magnetic resonance imaging acquisitions. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 712-717.	3.0	9
57	Continuously moving table MRI with SENSE: Application in peripheral contrast enhanced MR angiography. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1025-1031.	3.0	18
58	Phenotypic Variation in Functional Disorders of Defecation. <i>Gastroenterology</i> , 2005, 128, 1199-1210.	1.3	133
59	Time-resolved 3D contrast-enhanced MRA of an extended FOV using continuous table motion. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 568-576.	3.0	35
60	Correction for gradient nonlinearity in continuously moving table MR imaging. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 181-187.	3.0	28
61	Improved venous suppression and spatial resolution with SENSE in elliptical centric 3D contrast-enhanced MR angiography. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 761-765.	3.0	23
62	Continuously moving table data acquisition method for long FOV contrast-enhanced MRA and whole-body MRI. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 224-231.	3.0	117
63	Effect of windowing and zero-filled reconstruction of MRI data on spatial resolution and acquisition strategy. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 270-280.	3.4	134
64	Steady-state preparation for spoiled gradient echo imaging. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 653-661.	3.0	36
65	Dependence of venous enhancement on the field of view in 3D contrast-enhanced MRA using the elliptical centric view order. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 1134-1141.	3.0	10
66	Embedded MR fluoroscopy: High temporal resolution real-time imaging during high spatial resolution 3D MRA acquisition. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 690-698.	3.0	16
67	Assessment of thermal tissue ablation with MR elastography. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 80-87.	3.0	164
68	High-Spatial-Resolution Contrast-enhanced MR Angiography of the Renal Arteries: A Prospective Comparison with Digital Subtraction Angiography. <i>Radiology</i> , 2001, 218, 481-490.	7.3	123
69	Carotid Artery: Elliptic Centric Contrast-enhanced MR Angiography Compared with Conventional Angiography. <i>Radiology</i> , 2001, 218, 138-143.	7.3	137
70	Assessment of thermal tissue ablation with MR elastography. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 80-87.	3.0	29
71	Image metric-based correction (Autocorrection) of motion effects: Analysis of image metrics. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 174-181.	3.4	112
72	MR imaging of shear waves generated by focused ultrasound. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 111-115.	3.0	84

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73	Prospective multiaxial motion correction for fMRI. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 459-469.	3.0	116
74	Rapid autocorrection using prescan navigator echoes. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 583-588.	3.0	13
75	On the cause of increased aliasing in the slice-select direction in 3D contrast-enhanced magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 336-338.	3.0	9
76	Interactive fast spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 339-348.	3.0	67
77	Determination of appropriate RF blocking impedance for MRI surface coils and arrays. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2000, 10, 80-83.	2.0	7
78	Three-dimensional Contrast-enhanced MR Angiography with Real-time Fluoroscopic Triggering: Design Specifications and Technical Reliability in 330 Patient Studies. <i>Radiology</i> , 2000, 215, 584-593.	7.3	122
79	Interactive fast spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 339-348.	3.0	2
80	Carotid Arteries: Maximizing Arterial to Venous Contrast in Fluoroscopically Triggered Contrast-enhanced MR Angiography with Elliptic Centric View Ordering. <i>Radiology</i> , 1999, 211, 265-273.	7.3	123
81	Real-time imaging and triggering of 3D contrast-enhanced MR angiograms using MR fluoroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1999, 8, 196-206.	2.0	2
82	Real-time imaging and triggering of 3D contrast-enhanced MR angiograms using MR fluoroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1999, 8, 196-206.	2.0	20
83	Interactive three-point localization of double-oblique sections using MR fluoroscopy. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 846-849.	3.0	9
84	A flexible view ordering technique for high-quality real-time 2DFT MR fluoroscopy. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 69-81.	3.0	18
85	Theoretical limits of spatial resolution in elliptical-centric contrast-enhanced 3D-MRA. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 1106-1116.	3.0	71
86	Contrast-enhanced 3D MR breathhold imaging of porcine coronary arteries using fluoroscopic localization and bolus triggering. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 1159-1165.	3.0	4
87	A prospective approach to correct for inter-image head rotation in FMRI. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 234-243.	3.0	58
88	Arterial phase carotid and vertebral artery imaging in 3D contrast-enhanced MR angiography by combining fluoroscopic triggering with an elliptical centric acquisition order. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 24-35.	3.0	83
89	Two-dimensional multishot echo-planar coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 883-889.	3.0	44
90	Three-dimensional magnetization-prepared time-of-flight MR angiography of the carotid and vertebral arteries. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 252-259.	3.0	14

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91	Gradient moment smoothing: A new flow compensation technique for multi-shot echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 368-377.	3.0	12
92	Performance of an elliptical centric view order for signal enhancement and motion artifact suppression in breath-hold three-dimensional gradient echo imaging. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 793-802.	3.0	150
93	T1-Weighted MR imaging of the brain using a fast inversion recovery pulse sequence. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 356-362.	3.4	27
94	Magnetic resonance imaging of transverse acoustic strain waves. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 266-274.	3.0	231
95	Improved centric phase encoding orders for three-dimensional magnetization-prepared mr angiography. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 384-392.	3.0	67
96	3D MR angiography of pulmonary arteries using realtime navigator gating and magnetization preparation. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 579-587.	3.0	53
97	Cardiac magnetic resonance fluoroscopy. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 588-595.	3.0	57
98	Dual-Echo Interleaved Echo-Planar Imaging of the Brain. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 264-270.	3.0	4
99	Respiratory Motion of the Heart: Kinematics and the Implications for the Spatial Resolution in Coronary Imaging. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 713-719.	3.0	446
100	3D coronary MR angiography in multiple breath-holds using a respiratory feedback monitor. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 11-16.	3.0	112
101	Interactive selection of optimal section orientations using real-time MRI. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 114-119.	3.0	7
102	Error in MR volumetric flow measurements due to ordered phase encoding in the presence of flow varying with respiration. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 470-475.	3.0	8
103	Orbital navigator echoes for motion measurements in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 746-753.	3.0	176
104	Contrast optimization of fluid-attenuated inversion recovery (flair) imaging. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 868-877.	3.0	114
105	Medical Imaging. <i>Science</i> , 1995, 270, 1105-1105.	12.6	0
106	Magnetization-prepared cardiac imaging using gradient echo acquisition. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 271-275.	3.0	18
107	A monitoring, feedback, and triggering system for reproducible breath-hold MR imaging. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 507-511.	3.0	167
108	1993-1994: A year of opportunity for the SMRI. <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 563-564.	3.4	0

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109	Contrast-to-noise ratios in maximum intensity projection images. <i>Magnetic Resonance in Medicine</i> , 1992, 23, 130-137.	3.0	74
110	Respiratory kinematics of the upper abdominal organs: A quantitative study. <i>Magnetic Resonance in Medicine</i> , 1992, 23, 172-178.	3.0	181
111	Rapid T1 estimation using tagged magnetization-prepared gradient-echo MR imaging. <i>Magnetic Resonance in Medicine</i> , 1992, 26, 377-385.	3.0	3
112	Tracking motion with tagged rapid gradient-echo magnetization-prepared MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 155-163.	3.4	25
113	Magnetization-prepared MR angiography with fat suppression and venous saturation. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 653-664.	3.4	17
114	Altered phase-encoding order for reduced sensitivity to motion in three-dimensional MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 687-693.	3.4	37
115	Analysis of T2 limitations and off-resonance effects on spatial resolution and artifacts in echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 123-139.	3.0	356
116	Real-time interactive magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 547-553.	3.0	60
117	A spoiling sequence for suppression of residual transverse magnetization. <i>Magnetic Resonance in Medicine</i> , 1990, 15, 175-191.	3.0	27
118	The importance of phase-encoding order in ultra-short TR snapshot MR imaging. <i>Magnetic Resonance in Medicine</i> , 1990, 16, 481-488.	3.0	126
119	Flow-compensated limited flip angle MR angiography. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 1-13.	3.0	15
120	Compensation for effects of linear motion in MR imaging. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 99-113.	3.0	55
121	Real-time MR fluoroscopic data acquisition and image reconstruction. <i>Magnetic Resonance in Medicine</i> , 1989, 12, 407-415.	3.0	62
122	MR fluoroscopy: Technical feasibility. <i>Magnetic Resonance in Medicine</i> , 1988, 8, 1-15.	3.0	377
123	Fast limited flip angle mr subtraction angiography. <i>Magnetic Resonance in Medicine</i> , 1988, 8, 261-274.	3.0	17
124	The contrast-to-noise in relaxation time, synthetic, and weighted-sum MR images. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 13-22.	3.0	37
125	Optimizing the precision in T1 relaxation estimation using limited flip angles. <i>Magnetic Resonance in Medicine</i> , 1987, 5, 399-416.	3.0	245
126	An analysis of noise propagation in computed T2, pseudodensity, and synthetic spin-echo images. <i>Medical Physics</i> , 1986, 13, 285-292.	3.0	48

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127	Instrumentation for rapid MR image synthesis. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 33-43.	3.0	7
128	A modified saturation-recovery approximation for multiple spin-echo pulse sequences. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 132-134.	3.0	29
129	Optimum acquisition times of two spin echoes for MR image synthesis. <i>Magnetic Resonance in Medicine</i> , 1986, 3, 634-638.	3.0	7
130	The precision of T R extrapolation in magnetic resonance image synthesis. <i>Medical Physics</i> , 1986, 13, 170-176.	3.0	8