Stephen J Riederer

List of Publications by Year
in descending order

130	6,268	81900	69250
papers	citations	39 h-index	77 g-index

131	131	131	4008
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Respiratory Motion of the Heart: Kinematics and the Implications for the Spatial Resolution in Coronary Imaging. Magnetic Resonance in Medicine, 1995, 33, 713-719.	3.0	446
2	MR fluoroscopy: Technical feasibility. Magnetic Resonance in Medicine, 1988, 8, 1-15.	3.0	377
3	Analysis of T2 limitations and off-resonance effects on spatial resolution and artifacts in echo-planar imaging. Magnetic Resonance in Medicine, 1990, 14, 123-139.	3.0	356
4	Optimizing the precision in T1 relaxation estimation using limited flip angles. Magnetic Resonance in Medicine, 1987, 5, 399-416.	3.0	245
5	Magnetic resonance imaging of transverse acoustic strain waves. Magnetic Resonance in Medicine, 1996, 36, 266-274.	3.0	231
6	Respiratory kinematics of the upper abdominal organs: A quantitative study. Magnetic Resonance in Medicine, 1992, 23, 172-178.	3.0	181
7	Orbital navigator echoes for motion measurements in magnetic resonance imaging. Magnetic Resonance in Medicine, 1995, 34, 746-753.	3.0	176
8	A monitoring, feedback, and triggering system for reproducible breath-hold MR imaging. Magnetic Resonance in Medicine, 1993, 30, 507-511.	3.0	167
9	Assessment of thermal tissue ablation with MR elastography. Magnetic Resonance in Medicine, 2001, 45, 80-87.	3.0	164
10	Performance of an elliptical centric view order for signal enhancement and motion artifact suppression in breath-hold three-dimensional gradient echo imaging. Magnetic Resonance in Medicine, 1997, 38, 793-802.	3.0	150
11	Carotid Artery: Elliptic Centric Contrast-enhanced MR Angiography Compared with Conventional Angiography. Radiology, 2001, 218, 138-143.	7.3	137
12	Effect of windowing and zero-filled reconstruction of MRI data on spatial resolution and acquisition strategy. Journal of Magnetic Resonance Imaging, 2001, 14, 270-280.	3.4	134
13	Phenotypic Variation in Functional Disorders of Defecation. Gastroenterology, 2005, 128, 1199-1210.	1.3	133
14	The importance of phaseâ€encoding order in ultraâ€short TR snapshot MR imaging. Magnetic Resonance in Medicine, 1990, 16, 481-488.	3.0	126
15	Carotid Arteries: Maximizing Arterial to Venous Contrast in Fluoroscopically Triggered Contrast-enhanced MR Angiography with Elliptic Centric View Ordering. Radiology, 1999, 211, 265-273.	7.3	123
16	High-Spatial-Resolution Contrast-enhanced MR Angiography of the Renal Arteries: A Prospective Comparison with Digital Subtraction Angiography. Radiology, 2001, 218, 481-490.	7.3	123
17	Three-dimensional Contrast-enhanced MR Angiography with Real-time Fluoroscopic Triggering: Design Specifications and Technical Reliability in 330 Patient Studies. Radiology, 2000, 215, 584-593.	7.3	122
18	Continuously moving table data acquisition method for long FOV contrast-enhanced MRA and whole-body MRI. Magnetic Resonance in Medicine, 2002, 47, 224-231.	3.0	117

#	Article	IF	Citations
19	Prospective multiaxial motion correction for fMRI. Magnetic Resonance in Medicine, 2000, 43, 459-469.	3.0	116
20	Contrast optimization of fluid-attenuated inversion recovery (flair) imaging. Magnetic Resonance in Medicine, 1995, 34, 868-877.	3.0	114
21	3D coronary MR angiography in multiple breath-holds using a respiratory feedback monitor. Magnetic Resonance in Medicine, 1995, 34, 11-16.	3.0	112
22	Image metric-based correction (Autocorrection) of motion effects: Analysis of image metrics. Journal of Magnetic Resonance Imaging, 2000, 11, 174-181.	3.4	112
23	Effect of Aging on Anorectal and Pelvic Floor Functions in Females. Diseases of the Colon and Rectum, 2006, 49, 1726-1735.	1.3	107
24	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
25	MR imaging of shear waves generated by focused ultrasound. Magnetic Resonance in Medicine, 2000, 43, 111-115.	3.0	84
26	Arterial phase carotid and vertebral artery imaging in 3D contrast-enhanced MR angiography by combining fluoroscopic triggering with an elliptical centric acquisition order. Magnetic Resonance in Medicine, 1998, 40, 24-35.	3.0	83
27	Contrast-to-noise ratios in maximum intensity projection images. Magnetic Resonance in Medicine, 1992, 23, 130-137.	3.0	74
28	Theoretical limits of spatial resolution in elliptical-centric contrast-enhanced 3D-MRA. Magnetic Resonance in Medicine, 1999, 42, 1106-1116.	3.0	71
29	Improved centric phase encoding orders for three-dimensional magnetization-prepared mr angiography. Magnetic Resonance in Medicine, 1996, 36, 384-392.	3.0	67
30	Interactive fast spin-echo imaging. Magnetic Resonance in Medicine, 2000, 44, 339-348.	3.0	67
31	Real-time MR fluoroscopic data acquisition and image reconstruction. Magnetic Resonance in Medicine, 1989, 12, 407-415.	3.0	62
32	Real-time interactive magnetic resonance imaging. Magnetic Resonance in Medicine, 1990, 14, 547-553.	3.0	60
33	A prospective approach to correct for inter-image head rotation in FMRI. Magnetic Resonance in Medicine, 1998, 39, 234-243.	3.0	58
34	Cardiac magnetic resonance fluoroscopy. Magnetic Resonance in Medicine, 1996, 36, 588-595.	3.0	57
35	Compensation for effects of linear motion in MR imaging. Magnetic Resonance in Medicine, 1989, 12, 99-113.	3.0	55
36	3D MR angiography of pulmonary arteries using realtime navigator gating and magnetization preparation. Magnetic Resonance in Medicine, 1996, 36, 579-587.	3.0	53

#	Article	IF	Citations
37	An analysis of noise propagation in computed T 2 , pseudodensity, and synthetic spin-echo images. Medical Physics, 1986, 13, 285-292.	3.0	48
38	Two-dimensional multishot echo-planar coronary MR angiography. Magnetic Resonance in Medicine, 1998, 40, 883-889.	3.0	44
39	Peripheral Vasculature: High-Temporal- and High-Spatial-Resolution Three-dimensional Contrast-enhanced MR Angiography. Radiology, 2009, 253, 831-843.	7.3	44
40	Sparseâ€CAPR: Highly accelerated 4D CEâ€MRA with parallel imaging and nonconvex compressive sensing. Magnetic Resonance in Medicine, 2011, 66, 1019-1032.	3.0	38
41	The contrast-to-noise in relaxation time, synthetic, and weighted-sum MR images. Magnetic Resonance in Medicine, 1987, 5, 13-22.	3.0	37
42	Altered phase-encoding order for reduced sensitivity to motion in three-dimensional MR imaging. Journal of Magnetic Resonance Imaging, 1992, 2, 687-693.	3.4	37
43	Steady-state preparation for spoiled gradient echo imaging. Magnetic Resonance in Medicine, 2001, 45, 653-661.	3.0	36
44	Time-resolved 3D contrast-enhanced MRA of an extended FOV using continuous table motion. Magnetic Resonance in Medicine, 2004, 51, 568-576.	3.0	35
45	Dual-velocity continuously moving table acquisition for contrast-enhanced peripheral magnetic resonance angiography. Magnetic Resonance in Medicine, 2005, 53, 110-117.	3.0	34
46	Conventional vs. reduced field of view diffusion weighted imaging of the prostate: Comparison of image quality, correlation with histology, and inter-reader agreement. Magnetic Resonance Imaging, 2018, 47, 67-76.	1.8	32
47	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
48	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
49	Recent advances in 3D time-resolved contrast-enhanced MR angiography. Journal of Magnetic Resonance Imaging, 2015, 42, 3-22.	3.4	31
50	A modified saturation-recovery approximation for multiple spin-echo pulse sequences. Magnetic Resonance in Medicine, 1986, 3, 132-134.	3.0	29
51	Assessment of thermal tissue ablation with MR elastography. Magnetic Resonance in Medicine, 2001, 45, 80-87.	3.0	29
52	Correction for gradient nonlinearity in continuously moving table MR imaging. Magnetic Resonance in Medicine, 2004, 52, 181-187.	3.0	28
53	A spoiling sequence for suppression of residual transverse magnetization. Magnetic Resonance in Medicine, 1990, 15, 175-191.	3.0	27
54	T1-Weighted MR imaging of the brain using a fast inversion recovery pulse sequence. Journal of Magnetic Resonance Imaging, 1996, 6, 356-362.	3.4	27

#	Article	IF	Citations
55	Tracking motion with tagged rapid gradient-echo magnetization-prepared MR imaging. Journal of Magnetic Resonance Imaging, 1992, 2, 155-163.	3.4	25
56	High-Spatial-Resolution Contrast-enhanced MR Angiography of the Intracranial Venous System with Fourfold Accelerated Two-dimensional Sensitivity Encoding1. Radiology, 2007, 243, 853-861.	7.3	24
57	Improved venous suppression and spatial resolution with SENSE in elliptical centric 3D contrast-enhanced MR angiography. Magnetic Resonance in Medicine, 2004, 52, 761-765.	3.0	23
58	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
59	Controlled experimental study depicting moving objects in viewâ€shared timeâ€resolved 3D MRA. Magnetic Resonance in Medicine, 2009, 62, 85-95.	3.0	23
60	Estimating T₁ from multichannel variable flip angle SPGR sequences. Magnetic Resonance in Medicine, 2013, 69, 1787-1794.	3.0	23
61	Technical Aspects of Contrast-enhanced MR Angiography: Current Status and New Applications. Magnetic Resonance in Medical Sciences, 2018, 17, 3-12.	2.0	23
62	High temporal and spatial resolution 3D timeâ€resolved contrastâ€enhanced magnetic resonance angiography of the hands and feet. Journal of Magnetic Resonance Imaging, 2011, 34, 2-12.	3.4	21
63	Real-time imaging and triggering of 3D contrast-enhanced MR angiograms using MR fluoroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1999, 8, 196-206.	2.0	20
64	Time-of-Arrival Mapping at Three-dimensional Time-resolved Contrast-enhanced MR Angiography. Radiology, 2009, 253, 532-542.	7.3	20
65	Magnetization-prepared cardiac imaging using gradient echo acquisition. Magnetic Resonance in Medicine, 1993, 30, 271-275.	3.0	18
66	A flexible view ordering technique for high-quality real-time 2DFT MR fluoroscopy. Magnetic Resonance in Medicine, 1999, 42, 69-81.	3.0	18
67	Continuously moving table MRI with SENSE: Application in peripheral contrast enhanced MR angiography. Magnetic Resonance in Medicine, 2005, 54, 1025-1031.	3.0	18
68	Fast limited flip angle mr subtraction angiography. Magnetic Resonance in Medicine, 1988, 8, 261-274.	3.0	17
69	Magnetization-prepared MR angiography with fat suppression and venous saturation. Journal of Magnetic Resonance Imaging, 1992, 2, 653-664.	3.4	17
70	Embedded MR fluoroscopy: High temporal resolution real-time imaging during high spatial resolution 3D MRA acquisition. Magnetic Resonance in Medicine, 2001, 46, 690-698.	3.0	16
71	Comparison of manual and semiautomated techniques for analyzing gastric volumes with MRI in humans. American Journal of Physiology - Renal Physiology, 2014, 307, G582-G587.	3.4	16
72	Flow-compensated limited flip angle MR angiography. Magnetic Resonance in Medicine, 1989, 12, 1-13.	3.0	15

#	Article	IF	Citations
73	Three-dimensional magnetization-prepared time-of-flight MR angiography of the carotid and vertebral arteries. Magnetic Resonance in Medicine, 1997, 37, 252-259.	3.0	14
74	Rapid autocorrection using prescan navigator echoes. Magnetic Resonance in Medicine, 2000, 43, 583-588.	3.0	13
75	Max CAPR: Highâ€resolution 3D contrastâ€enhanced MR angiography with acquisition times under 5 seconds. Magnetic Resonance in Medicine, 2010, 64, 1171-1181.	3.0	13
76	High temporal and spatial resolution imaging of peripheral vascular malformations. Journal of Magnetic Resonance Imaging, 2012, 36, 933-942.	3.4	13
77	Gradient moment smoothing: A new flow compensation technique for multi-shot echo-planar imaging. Magnetic Resonance in Medicine, 1997, 38, 368-377.	3.0	12
78	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
79	Timeâ€resolved bolusâ€chase MR angiography with realâ€time triggering of table motion. Magnetic Resonance in Medicine, 2010, 64, 629-637.	3.0	12
80	Dependence of venous enhancement on the field of view in 3D contrast-enhanced MRA using the elliptical centric view order. Magnetic Resonance in Medicine, 2001, 45, 1134-1141.	3.0	10
81	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
82	Contrast-enhanced MR Angiography of the Abdomen with Highly Accelerated Acquisition Techniques. Radiology, 2011, 261, 587-597.	7.3	10
83	Buildup of image quality in viewâ€shared timeâ€resolved 3D CEâ€MRA. Magnetic Resonance in Medicine, 2013, 70, 348-357.	3.0	10
84	Interactive three-point localization of double-oblique sections using MR fluoroscopy. Magnetic Resonance in Medicine, 1999, 41, 846-849.	3.0	9
85	On the cause of increased aliasing in the slice-select direction in 3D contrast-enhanced magnetic resonance angiography. Magnetic Resonance in Medicine, 2000, 44, 336-338.	3.0	9
86	Recovery of phase inconsistencies in continuously moving table extended field of view magnetic resonance imaging acquisitions. Magnetic Resonance in Medicine, 2005, 54, 712-717.	3.0	9
87	Fast inversion recovery magnetic resonance angiography of the intracranial arteries. Magnetic Resonance in Medicine, 2010, 63, 1648-1658.	3.0	9
88	Acceleration apportionment: A method of improved 2D SENSE acceleration applied to 3D contrastâ€enhanced MR angiography. Magnetic Resonance in Medicine, 2014, 71, 672-680.	3.0	9
89	The precision of T R extrapolation in magnetic resonance image synthesis. Medical Physics, 1986, 13, 170-176.	3.0	8
90	Error in MR volumetric flow measurements due to ordered phase encoding in the presence of flow varying with respiration. Magnetic Resonance in Medicine, 1995, 34, 470-475.	3.0	8

#	Article	IF	Citations
91	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
92	Prospective Comparison of Cartesian Acquisition with Projection-like Reconstruction Magnetic Resonance Angiography with Computed Tomography Angiography for Evaluation of below-the-Knee Runoff. Journal of Vascular and Interventional Radiology, 2013, 24, 392-399.	0.5	8
93	Three-Station Three-dimensional Bolus-Chase MR Angiography with Real-time Fluoroscopic Tracking. Radiology, 2014, 272, 241-251.	7.3	8
94	A prospective randomized controlled study of erythromycin on gastric and small intestinal distention: Implications for MR enterography. European Journal of Radiology, 2014, 83, 2001-2006.	2.6	8
95	Dixonâ€type and subtractionâ€type contrastâ€enhanced magnetic resonance angiography: A theoretical and experimental comparison of SNR and CNR. Magnetic Resonance in Medicine, 2015, 74, 81-92.	3.0	8
96	Dual echo Dixon imaging with a constrained phase signal model and graph cuts reconstruction. Magnetic Resonance in Medicine, 2017, 78, 2203-2215.	3.0	8
97	Robust and efficient pharmacokinetic parameter non-linear least squares estimation for dynamic contrast enhanced MRI of the prostate. Magnetic Resonance Imaging, 2018, 48, 50-61.	1.8	8
98	Instrumentation for rapid MR image synthesis. Magnetic Resonance in Medicine, 1986, 3, 33-43.	3.0	7
99	Optimum acquisition times of two spin echoes for MR image synthesis. Magnetic Resonance in Medicine, 1986, 3, 634-638.	3.0	7
100	Interactive selection of optimal section orientations using real-time MRI. Magnetic Resonance in Medicine, 1995, 34, 114-119.	3.0	7
101	Determination of appropriate RF blocking impedance for MRI surface coils and arrays. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2000, 10, 80-83.	2.0	7
102	Modified acquisition strategy for reduced motion artifact in super resolution FSE multislice MRI: Application to prostate. Magnetic Resonance in Medicine, 2020, 84, 2537-2550.	3.0	6
103	High spatial and temporal resolution imaging of the arterial vasculature of the lower extremity with contrast enhanced mr angiography. Clinical Anatomy, 2011, 24, 478-488.	2.7	5
104	Selection and evaluation of optimal twoâ€dimensional CAIPIRINHA kernels applied to timeâ€resolved threeâ€dimensional CEâ€MRA. Magnetic Resonance in Medicine, 2015, 73, 2234-2242.	3.0	5
105	Improved performance of prostate DCE-MRI using a 32-coil vs. 12-coil receiver array. Magnetic Resonance Imaging, 2017, 39, 15-23.	1.8	5
106	Use of k_Zâ€space for high throughâ€plane resolution in multislice MRI: Application to prostate. Magnetic Resonance in Medicine, 2019, 81, 3691-3704.	3.0	5
107	Dual-Echo Interleaved Echo-Planar Imaging of the Brain. Magnetic Resonance in Medicine, 1995, 33, 264-270.	3.0	4
108	Contrast-enhanced 3D MR breathhold imaging of porcine coronary arteries using fluoroscopic localization and bolus triggering. Magnetic Resonance in Medicine, 1999, 42, 1159-1165.	3.0	4

#	Article	IF	Citations
109	Timeâ€resolved dualâ€station calfâ€“foot threeâ€dimensional bolus chase MR angiography with fluoroscopic tracking. Journal of Magnetic Resonance Imaging, 2012, 36, 1168-1178.	3.4	4
110	Pretreatment imaging of peripheral vascular malformations. Journal of Vascular Diagnostics, 2014, 2014, 121.	0.2	4
111	Vascular masking for improved unfolding in 2D SENSE-accelerated 3D contrast-enhanced MR angiography. Journal of Magnetic Resonance Imaging, 2014, 39, 1161-1170.	3.4	4
112	Timeâ€resolved contrastâ€enhanced MR angiography with singleâ€echo Dixon fat suppression. Magnetic Resonance in Medicine, 2018, 80, 1556-1567.	3.0	4
113	Rapid T1 estimation using tagged magnetization-prepared gradient-echo MR imaging. Magnetic Resonance in Medicine, 1992, 26, 377-385.	3.0	3
114	An efficient ADMM-based sparse reconstruction strategy for multi-level sampled MRI. , 2014, , .		3
115	Real-time imaging and triggering of 3D contrast-enhanced MR angiograms using MR fluoroscopy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1999, 8, 196-206.	2.0	2
116	Improved receiver arrays and optimized parallel imaging accelerations applied to time-resolved 3D fluoroscopically tracked peripheral runoff CE-MRA. Magnetic Resonance Imaging, 2016, 34, 280-288.	1.8	2
117	Interactive fast spinâ€echo imaging. Magnetic Resonance in Medicine, 2000, 44, 339-348.	3.0	2
118	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
119	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
120	Inversion recovery with embedded selfâ€calibration (IRES). Magnetic Resonance in Medicine, 2009, 62, 459-467.	3.0	1
121	Advanced image reconstruction strategies for 4D prostate DCE-MRI: steps toward clinical practicality. Proceedings of SPIE, 2015, , .	0.8	1
122	Cross correlationâ€“based misregistration correction for super resolution T 2 â€weighted spinâ€echo images: application to prostate. Magnetic Resonance in Medicine, 2021, 85, 1350-1363.	3.0	1
123	1993-1994: A year of opportunity for the SMRI. Journal of Magnetic Resonance Imaging, 1993, 3, 563-564.	3.4	0
124	The Whitaker Foundation: 25 years of support for young investigators in magnetic resonance. Magnetic Resonance in Medicine, 2005, 53, 1241-1242.	3.0	0
125	The use of Cartesian k-space sampling techniques for high quality 3D time-resolved imaging of the cardiovascular system. , 2010, , .		0
126	The use of real-time MRI techniques for imaging an extended field of view in magnetic resonance angiography. , 2013, , .		0

#	Article	IF	Citations
127	Improved Receiver Coil Arrays for Real-Time Contrast-Enhanced MR Angiography of the Peripheral Vasculature. IFMBE Proceedings, 2016, , 292-295.	0.3	0
128	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
129	Time-Resolved, Contrast-Enhanced MR Angiography Using Cartesian Methods. , 2012, , 75-88.		0
130	Medical Imaging. Science, 1995, 270, 1105-1105.	12.6	0