

# Robert Edelman

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

5,450  
citations

32  
h-index

73  
g-index

88  
ext. papers

5,994  
ext. citations

6.8  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
84	A general kinetic model for quantitative perfusion imaging with arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 383-96	4.4	894
83	Clinical outcome in ischemic stroke predicted by early diffusion-weighted and perfusion magnetic resonance imaging: a preliminary analysis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1996</b> , 16, 53-97 <sup>3</sup>	7.3	426
82	Shared neural substrates controlling hand movements in human motor cortex. <i>Science</i> , <b>1995</b> , 268, 1775-33.3	33.3	390
81	Ischemic lesion volumes in acute stroke by diffusion-weighted magnetic resonance imaging correlate with clinical outcome. <i>Annals of Neurology</i> , <b>1997</b> , 42, 164-70	9.4	339
80	Noninvasive assessment of regional ventilation in the human lung using oxygen-enhanced magnetic resonance imaging. <i>Nature Medicine</i> , <b>1996</b> , 2, 1236-9	50.5	339
79	Projective imaging of pulsatile flow with magnetic resonance. <i>Science</i> , <b>1985</b> , 230, 946-8	33.3	218
78	Identification of anomalous coronary arteries and their anatomic course by magnetic resonance coronary angiography. <i>Circulation</i> , <b>1995</b> , 92, 3158-62	16.7	212
77	Pulmonary perfusion: qualitative assessment with dynamic contrast-enhanced MRI using ultra-short TE and inversion recovery turbo FLASH. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 503-8	4.4	197
76	AUTO-SMASH: a self-calibrating technique for SMASH imaging. Simultaneous Acquisition of Spatial Harmonics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>1998</b> , 7, 42-54	2.8	193
75	First-pass contrast-enhanced magnetic resonance angiography in humans using ferumoxytol, a novel ultrasmall superparamagnetic iron oxide (USPIO)-based blood pool agent. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 21, 46-52	5.6	192
74	Signal targeting with alternating radiofrequency (STAR) sequences: application to MR angiography. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 31, 233-8	4.4	158
73	Quantitative assessment of pulmonary perfusion with dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 1033-8	4.4	154
72	Quiescent-interval single-shot unenhanced magnetic resonance angiography of peripheral vascular disease: Technical considerations and clinical feasibility. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 951-8 <sup>4.4</sup>	4.4	140
71	In vivo measurement of water diffusion in the human heart. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 423-8	4.4	106
70	Evaluation of regional pulmonary perfusion using ultrafast magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 46, 166-71	4.4	99
69	Evaluation of peripheral arterial disease with nonenhanced quiescent-interval single-shot MR angiography. <i>Radiology</i> , <b>2011</b> , 260, 282-93	20.5	98
68	Single breath-hold volumetric imaging of the heart using magnetization-prepared 3-dimensional segmented echo planar imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>1995</b> , 5, 403-9	5.6	95

67	Oxygen enhanced MR ventilation imaging of the lung. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>1998</b> , 7, 153-61	2.8	86
66	Signal-to-noise ratio and signal-to-noise efficiency in SMASH imaging. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 41, 1009-22	4.4	84
65	The history of MR imaging as seen through the pages of radiology. <i>Radiology</i> , <b>2014</b> , 273, S181-200	20.5	64
64	MR colonography using colonic distention with air as the contrast material: work in progress. <i>American Journal of Roentgenology</i> , <b>2001</b> , 176, 144-6	5.4	60
63	STAR-HASTE: perfusion imaging without magnetic susceptibility artifact. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 404-8	4.4	49
62	Determination of regional pulmonary parenchymal strain during normal respiration using spin inversion tagged magnetization MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 13, 467-74	5.6	48
61	MR ventilation-perfusion imaging of human lung using oxygen-enhanced and arterial spin labeling techniques. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 574-9	5.6	47
60	Safety profile of ultrasmall superparamagnetic iron oxide ferumoxtran-10: phase II clinical trial data. <i>Journal of Magnetic Resonance Imaging</i> , <b>1999</b> , 9, 291-4	5.6	46
59	Peripheral arterial disease in a symptomatic diabetic population: prospective comparison of rapid unenhanced MR angiography (MRA) with contrast-enhanced MRA. <i>American Journal of Roentgenology</i> , <b>2011</b> , 197, 1466-73	5.4	45
58	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 2100-10	4.4	40
57	Noncontrast MR angiography: An update. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 355-373	5.6	39
56	Comparison of quiescent inflow single-shot and native space for nonenhanced peripheral MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 38, 1531-8	5.6	36
55	Noninvasive pulmonary perfusion imaging by STAR-HASTE sequence. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 808-12	4.4	34
54	Comparison of the BOLD- and EPISTAR-technique for functional brain imaging by using signal detection theory. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 249-55	4.4	33
53	Evaluating peripheral arterial disease with unenhanced quiescent-interval single-shot MR angiography at 3 T. <i>American Journal of Roentgenology</i> , <b>2014</b> , 202, 886-93	5.4	32
52	Nonenhanced MR angiography of the pulmonary arteries using single-shot radial quiescent-interval slice-selective (QISS): a technical feasibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 48	6.9	26
51	Breath-hold imaging of the coronary arteries using Quiescent-Interval Slice-Selective (QISS) magnetic resonance angiography: pilot study at 1.5 Tesla and 3 Tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 101	6.9	26
50	Adaptive correction of imaging plane position in segmented k-space cine cardiac MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 811-4	5.6	26

49	Functional burst imaging. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 40, 614-21	4.4	25
48	Nonenhanced extracranial carotid MR angiography using arterial spin labeling: improved performance with pseudocontinuous tagging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 384-94	5.6	20
47	STAR and STARFIRE for flow-dependent and flow-independent noncontrast carotid angiography. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 117-24	4.4	20
46	Radial fast interrupted steady-state (FISS) magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2077-2086	4.4	17
45	Quiescent interval low angle shot magnetic resonance angiography of the extracranial carotid arteries. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 2072-7	4.4	17
44	Arterial spin labeled carotid MR angiography: A phantom study examining the impact of technical and hemodynamic factors. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 295-301	4.4	16
43	Dynamic three-dimensional magnetic resonance abdominal angiography and perfusion: implementation and preliminary experience. <i>Journal of Magnetic Resonance Imaging</i> , <b>2000</b> , 11, 201-7	5.6	16
42	Magnetic resonance perfusion imaging. <i>International Journal of Imaging Systems and Technology</i> , <b>1995</b> , 6, 230-237	2.5	15
41	MR imaging of iliofemoral peripheral vascular calcifications using proton density-weighted, in-phase three-dimensional stack-of-stars gradient echo. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2146-2152	4.4	14
40	Noncontrast Magnetic Resonance Angiography for the Diagnosis of Peripheral Vascular Disease. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e008844	3.9	14
39	Ungated radial quiescent-inflow single-shot (UnQISS) magnetic resonance angiography using optimized azimuthal equidistant projections. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1522-9	4.4	14
38	Nonenhanced arterial spin labeled carotid MR angiography using three-dimensional radial balanced steady-state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 1150-6	5.6	13
37	Projection MR imaging of peripheral arterial calcifications. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1939-45	4.4	13
36	Nonenhanced hybridized arterial spin labeled magnetic resonance angiography of the extracranial carotid arteries using a fast low angle shot readout at 3 Tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 18	6.9	12
35	Natively fat-suppressed 5D whole-heart MRI with a radial free-running fast-interrupted steady-state (FISS) sequence at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 45-55	4.4	12
34	Super-resolution intracranial quiescent interval slice-selective magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 683-691	4.4	11
33	Case report 350: Multiple myeloma--blastic type. <i>Skeletal Radiology</i> , <b>1986</b> , 15, 160-3	2.7	11
32	Cardiovascular cine imaging and flow evaluation using Fast Interrupted Steady-State (FISS) magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 12	6.9	9

31	Half-Fourier BURST imaging on a clinical scanner. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 38, 534-40	4.4	9
30	Ungated nonenhanced radial quiescent interval slice-selective (QISS) magnetic resonance angiography of the neck: Evaluation of image quality. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 1798-1807	5.6	8
29	Non-contrast-enhanced magnetic resonance imaging for visualization and quantification of endovascular aortic prosthesis, their endoleaks and aneurysm sacs at 1.5 T. <i>Magnetic Resonance Imaging</i> , <b>2019</b> , 60, 164-172	3.3	7
28	Cardiovascular magnetic resonance imaging of aorto-iliac and ilio-femoral vascular calcifications using proton density-weighted in-phase stack of stars. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 51	6.9	7
27	Cerebral magnetic resonance angiography. <i>Neurological Research</i> , <b>1992</b> , 14, 118-21	2.7	7
26	Near-isotropic noncontrast MRA of the renal and peripheral arteries using a thin-slab stack-of-stars quiescent interval slice-selective acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1711-1720	4.4	7
25	Feasibility of a sub-3-minute imaging strategy for ungated quiescent interval slice-selective MRA of the extracranial carotid arteries using radial k-space sampling and deep learning-based image processing. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 825-837	4.4	7
24	Breath-hold imaging of the coronary arteries using quiescent-interval slice-selective (qiss) magnetic resonance angiography - pilot study at 1.5 tesla and 3 tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18,	6.9	6
23	Improved dark blood imaging of the heart using radial balanced steady-state free precession. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 69	6.9	6
22	Feasibility of Image Fusion for Concurrent MRI Evaluation of Vessel Lumen and Vascular Calcifications in Peripheral Arterial Disease. <i>American Journal of Roentgenology</i> , <b>2019</b> , 212, 914-918	5.4	5
21	High spatial resolution whole-neck MR angiography using thin-slab stack-of-stars quiescent interval slice-selective acquisition. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 3316-3324	4.4	5
20	Diagnostic accuracy of non-contrast quiescent-interval slice-selective (QISS) MRA combined with MRI-based vascular calcification visualization for the assessment of arterial stenosis in patients with lower extremity peripheral artery disease. <i>European Radiology</i> , <b>2021</b> , 31, 2778-2787	8	5
19	Accuracy of non-contrast quiescent-interval single-shot and quiescent-interval single-shot arterial spin-labelled magnetic resonance angiography in assessment of peripheral arterial disease in a diabetic population. <i>Journal of Medical Imaging and Radiation Oncology</i> , <b>2020</b> , 64, 35-43	1.7	4
18	Free-Breathing Fast Low-Angle Shot Quiescent-Interval Slice-Selective Magnetic Resonance Angiography for Improved Detection of Vascular Stenoses in the Pelvis and Abdomen: Technical Development. <i>Investigative Radiology</i> , <b>2019</b> , 54, 752-756	10.1	4
17	Non-Contrast-Enhanced Carotid MRA: Clinical Evaluation of a Novel Ungated Radial Quiescent-Interval Slice-Selective MRA at 1.5T. <i>American Journal of Neuroradiology</i> , <b>2019</b> , 40, 1529-1537	4.4	3
16	"Push-button" noncontrast MR angiography using balanced T relaxation-enhanced steady-state (bT1RESS). <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1248-1257	4.4	3
15	Super-resolution head and neck MRA using deep machine learning. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 335-345	4.4	3
14	Radial-based acquisition strategies for pre-procedural non-contrast cardiovascular magnetic resonance angiography of the pulmonary veins. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 78	6.9	2

13	Clinical Value of Noncontrast-Enhanced Radial Quiescent-Interval Slice-Selective (QISS) Magnetic Resonance Angiography for the Diagnosis of Acute Pulmonary Embolism Compared to Contrast-Enhanced Computed Tomography and Cartesian Balanced Steady-State Free Precession. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 52, 1510-1524	5.6	2
12	Neutral contrast MRI for the detection of peripheral arterial wall calcifications. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16,	6.9	2
11	Twofold improved tumor-to-brain contrast using a novel T1 relaxation-enhanced steady-state (TRESS) MRI technique. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	2
10	Comparison of 2D and 3D quiescent-interval slice-selective non-contrast MR angiography in patients with peripheral artery disease. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2021</b> , 34, 649-658	2.8	2
9	MR Angiography Series: Fundamentals of Non-Contrast-enhanced MR Angiography. <i>Radiographics</i> , <b>2021</b> , 41, E157-E158	5.4	2
8	Evaluation of Renal Allograft Vasculature Using Non-contrast 3D Inversion Recovery Balanced Steady-state Free Precession MRA and 2D Quiescent-interval Slice-selective MRA. <i>Exploratory Research and Hypothesis in Medicine</i> , <b>2021</b> , 6, 90-98	1	1
7	Updates in Magnetic Resonance Venous Imaging. <i>Seminars in Interventional Radiology</i> , <b>2021</b> , 38, 202-208	1.6	1
6	Dynamic quantitative nonenhanced magnetic resonance angiography of the abdominal aorta and lower extremities using cine fast interrupted steady-state in combination with arterial spin labeling: a feasibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 55	6.9	0
5	Dark blood cardiovascular magnetic resonance of the heart, great vessels, and lungs using electrocardiographic-gated three-dimensional unbalanced steady-state free precession. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 127	6.9	0
4	High-resolution, non-contrast-enhanced magnetic resonance angiography of the wrist, hand and digital arteries using optimized implementation of Cartesian quiescent interval slice selective (QISS) at 1.5T. <i>Magnetic Resonance Imaging</i> , <b>2021</b> , 78, 58-68	3.3	0
3	Cardiovascular magnetic resonance for the detection of descending thoracic aorta calcification in patients with end-stage renal disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 85	6.9	0
2	Quantitative time-of-flight MR angiography for simultaneous luminal and hemodynamic evaluation of the intracranial arteries. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 150-162	4.4	0
1	Clinical Considerations on the use of Contrast Agents for CT and MRI	17-30	