Robert Edelman

List of Publications by Year
in descending order

87 **papers**	6,491 **citations**
126907 33 **h-index**	62596 80 **g-index**
88 **all docs**	88 **docs citations**
88 **times ranked**	5352 **citing authors**

#	Article	IF	Citations
1	A general kinetic model for quantitative perfusion imaging with arterial spin labeling. Magnetic Resonance in Medicine, 1998, 40, 383-396.	3.0	1,067
2	Clinical Outcome in Ischemic Stroke Predicted by Early Diffusion-Weighted and Perfusion Magnetic Resonance Imaging: A Preliminary Analysis. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 53-59.	4.3	484
3	Shared neural substrates controlling hand movements in human motor cortex. Science, 1995, 268, 1775-1777.	12.6	439
4	Ischemic lesion volumes in acute stroke by diffusion–weighted magnetic resonance imaging correlate with clinical outcome. Annals of Neurology, 1997, 42, 164-170.	5.3	419
5	Noninvasive assessment of regional ventilation in the human lung using oxygen–enhanced magnetic resonance imaging. Nature Medicine, 1996, 2, 1236-1239.	30.7	397
6	Identification of Anomalous Coronary Arteries and Their Anatomic Course by Magnetic Resonance Coronary Angiography. Circulation, 1995, 92, 3158-3162.	1.6	265
7	Projective imaging of pulsatile flow with magnetic resonance. Science, 1985, 230, 946-948.	12.6	259
8	Pulmonary perfusion: Qualitative assessment with dynamic contrast-enhanced MRI using ultra-shortTE and inversion recovery turbo FLASH. Magnetic Resonance in Medicine, 1996, 36, 503-508.	3.0	218
9	AUTO-SMASH: A self-calibrating technique for SMASH imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 7, 42-54.	2.0	217
10	First-pass contrast-enhanced magnetic resonance angiography in humans using ferumoxytol, a novel ultrasmall superparamagnetic iron oxide (USPIO)-based blood pool agent. Journal of Magnetic Resonance Imaging, 2005, 21, 46-52.	3.4	214
11	Signal targeting with alternating radiofrequency (STAR) sequences: Application to MR angiography. Magnetic Resonance in Medicine, 1994, 31, 233-238.	3.0	176
12	Quantitative assessment of pulmonary perfusion with dynamic contrast-enhanced MRI. Magnetic Resonance in Medicine, 1999, 42, 1033-1038.	3.0	170
13	Quiescent-interval single-shot unenhanced magnetic resonance angiography of peripheral vascular disease: Technical considerations and clinical feasibility. Magnetic Resonance in Medicine, 2010, 63, 951-958.	3.0	157
14	In vivo measurement of water diffusion in the human heart. Magnetic Resonance in Medicine, 1994, 32, 423-428.	3.0	130
15	Evaluation of regional pulmonary perfusion using ultrafast magnetic resonance imaging. Magnetic Resonance in Medicine, 2001, 46, 166-171.	3.0	116
16	Evaluation of Peripheral Arterial Disease with Nonenhanced Quiescent-Interval Single-Shot MR Angiography. Radiology, 2011, 260, 282-293.	7.3	107
17	Single breath-hold volumetric imaging of the heart using magnetization-prepared 3-dimensional segmented echo planar imaging. Journal of Magnetic Resonance Imaging, 1995, 5, 403-409.	3.4	102
18	The History of MR Imaging as Seen through the Pages of <i>Radiology</i>. Radiology, 2014, 273, S181-S200.	7.3	99

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19	Oxygen enhanced MR ventilation imaging of the lung. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 7, 153-161.	2.0	96
20	Signal-to-noise ratio and signal-to-noise efficiency in SMASH imaging. Magnetic Resonance in Medicine, 1999, 41, 1009-1022.	3.0	93
21	Noncontrast MR angiography: An update. Journal of Magnetic Resonance Imaging, 2019, 49, 355-373.	3.4	81
22	MR Colonography Using Colonic Distention with Air as the Contrast Material. American Journal of Roentgenology, 2001, 176, 144-146.	2.2	64
23	Peripheral Arterial Disease in a Symptomatic Diabetic Population: Prospective Comparison of Rapid Unenhanced MR Angiography (MRA) With Contrast-Enhanced MRA. American Journal of Roentgenology, 2011, 197, 1466-1473.	2.2	56
24	Determination of regional pulmonary parenchymal strain during normal respiration using spin inversion tagged magnetization MRI. Journal of Magnetic Resonance Imaging, 2001, 13, 467-474.	3.4	55
25	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). Magnetic Resonance in Medicine, 2015, 73, 2100-2110.	3.0	53
26	STAR-HASTE: Perfusion imaging without magnetic susceptibility artifact. Magnetic Resonance in Medicine, 1997, 38, 404-408.	3.0	51
27	Safety profile of ultrasmall superparamagnetic iron oxide ferumoxtran-10: Phase II clinical trial data. Journal of Magnetic Resonance Imaging, 1999, 9, 291-294.	3.4	50
28	MR ventilation-perfusion imaging of human lung using oxygen-enhanced and arterial spin labeling techniques. Journal of Magnetic Resonance Imaging, 2001, 14, 574-579.	3.4	49
29	Comparison of quiescent inflow single–shot and native space for nonenhanced peripheral MR angiography. Journal of Magnetic Resonance Imaging, 2013, 38, 1531-1538.	3.4	49
30	Noninvasive pulmonary perfusion imaging by STAR-HASTE sequence. Magnetic Resonance in Medicine, 2000, 44, 808-812.	3.0	38
31	Evaluating Peripheral Arterial Disease With Unenhanced Quiescent-Interval Single-Shot MR Angiography at 3 T. American Journal of Roentgenology, 2014, 202, 886-893.	2.2	38
32	Nonenhanced MR angiography of the pulmonary arteries using single-shot radial quiescent-interval slice-selective (QISS): a technical feasibility study. Journal of Cardiovascular Magnetic Resonance, 2017, 19, 48.	3.3	38
33	Comparison of the BOLD- and EPISTAR-technique for functional brain imaging by using signal detection theory. Magnetic Resonance in Medicine, 1996, 36, 249-255.	3.0	37
34	Noncontrast Magnetic Resonance Angiography for the Diagnosis of Peripheral Vascular Disease. Circulation: Cardiovascular Imaging, 2019, 12, e008844.	2.6	35
35	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. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 101.	3.3	33
36	Adaptive correction of imaging plane position in segmented K-space cine cardiac MRI. Journal of Magnetic Resonance Imaging, 1997, 7, 811-814.	3.4	31

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37	Functional burst imaging. Magnetic Resonance in Medicine, 1998, 40, 614-621.	3.0	27
38	Nonenhanced extracranial carotid MR angiography using arterial spin labeling: Improved performance with pseudocontinuous tagging. Journal of Magnetic Resonance Imaging, 2011, 34, 384-394.	3.4	25
39	STAR and STARFIRE for flow‐dependent and flow‐independent noncontrast carotid angiography. Magnetic Resonance in Medicine, 2009, 61, 117-124.	3.0	21
40	Nonenhanced arterial spin labeled carotid MR angiography using three‐dimensional radial balanced steady‐state free precession imaging. Journal of Magnetic Resonance Imaging, 2015, 41, 1150-1156.	3.4	21
41	Quiescent interval low angle shot magnetic resonance angiography of the extracranial carotid arteries. Magnetic Resonance in Medicine, 2016, 75, 2072-2077.	3.0	21
42	Radial fast interrupted steady‐state (FISS) magnetic resonance imaging. Magnetic Resonance in Medicine, 2018, 79, 2077-2086.	3.0	20
43	Arterial spin labeled carotid MR angiography: A phantom study examining the impact of technical and hemodynamic factors. Magnetic Resonance in Medicine, 2016, 75, 295-301.	3.0	19
44	Dynamic three-dimensional magnetic resonance abdominal angiography and perfusion: Implementation and preliminary experience. Journal of Magnetic Resonance Imaging, 2000, 11, 201-207.	3.4	18
45	MR imaging of iliofemoral peripheral vascular calcifications using proton density-weighted, in-phase three-dimensional stack-of-stars gradient echo. Magnetic Resonance in Medicine, 2017, 77, 2146-2152.	3.0	18
46	Natively fat‐suppressed 5D whole‐heart MRI with a radial free‐running fast‐interrupted steady‐state (FISS) sequence at 1.5T and 3T. Magnetic Resonance in Medicine, 2020, 83, 45-55.	3.0	18
47	Ungated radial quiescent‐inflow single‐shot (UnQISS) magnetic resonance angiography using optimized azimuthal equidistant projections. Magnetic Resonance in Medicine, 2014, 72, 1522-1529.	3.0	17
48	Super‐resolution head and neck MRA using deep machine learning. Magnetic Resonance in Medicine, 2021, 86, 335-345.	3.0	17
49	Magnetic resonance perfusion imaging. International Journal of Imaging Systems and Technology, 1995, 6, 230-237.	4.1	16
50	Projection MR imaging of peripheral arterial calcifications. Magnetic Resonance in Medicine, 2015, 73, 1939-1945.	3.0	16
51	Non-contrast-enhanced magnetic resonance imaging for visualization and quantification of endovascular aortic prosthesis, their endoleaks and aneurysm sacs at 1.5 T. Magnetic Resonance Imaging, 2019, 60, 164-172.	1.8	16
52	Nonenhanced hybridized arterial spin labeled magnetic resonance angiography of the extracranial carotid arteries using a fast low angle shot readout at 3 Tesla. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 18.	3.3	14
53	Cardiovascular magnetic resonance imaging of aorto-iliac and ilio-femoral vascular calcifications using proton density-weighted in-phase stack of stars. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 51.	3.3	13
54	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. European Radiology, 2021, 31, 2778-2787.	4.5	13

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55	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. Magnetic Resonance in Medicine, 2020, 84, 825-837.	3.0	13
56	Case report 350. Skeletal Radiology, 1986, 15, 160-163.	2.0	12
57	Super‑resolution intracranial quiescent interval slice‑selective magnetic resonance angiography. Magnetic Resonance in Medicine, 2018, 79, 683-691.	3.0	12
58	Cardiovascular cine imaging and flow evaluation using Fast Interrupted Steady-State (FISS) magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 12.	3.3	11
59	Half-fourier BURST imaging on a clinical scanner. Magnetic Resonance in Medicine, 1997, 38, 534-540.	3.0	10
60	Ungated nonenhanced radial quiescent interval slice‑selective (QISS) magnetic resonance angiography of the neck: Evaluation of image quality. Journal of Magnetic Resonance Imaging, 2019, 50, 1798-1807.	3.4	10
61	Near‑isotropic noncontrast MRA of the renal and peripheral arteries using a thin‑slab stack‑of‑stars quiescent interval slice‑selective acquisition. Magnetic Resonance in Medicine, 2020, 83, 1711-1720.	3.0	8
62	Cerebral magnetic resonance angiography. Neurological Research, 1992, 14, 118-121.	1.3	7
63	Improved dark blood imaging of the heart using radial balanced steady-state free precession. Journal of Cardiovascular Magnetic Resonance, 2017, 18, 69.	3.3	7
64	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. Journal of Medical Imaging and Radiation Oncology, 2020, 64, 35-43.	1.8	7
65	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. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P69.	3.3	6
66	Free-Breathing Fast Low-Angle Shot Quiescent-Interval Slice-Selective Magnetic Resonance Angiography for Improved Detection of Vascular Stenoses in the Pelvis and Abdomen. Investigative Radiology, 2019, 54, 752-756.	6.2	6
67	Twofold improved tumor-to-brain contrast using a novel T1 relaxation-enhanced steady-state (T) Tj ETQq1 1 0.784314 rgBT /Overlock 10	10.3	6
68	High spatial resolution whole‑neck MR angiography using thin‑slab stack‑of‑stars quiescent interval slice‑selective acquisition. Magnetic Resonance in Medicine, 2020, 84, 3316-3324.	3.0	6
69	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. Journal of Magnetic Resonance Imaging, 2020, 52, 1510-1524.	3.4	6
70	MR Angiography Series: Fundamentals of Non–Contrast-enhanced MR Angiography. Radiographics, 2021, 41, E157-E158.	3.3	6
71	Feasibility of Image Fusion for Concurrent MRI Evaluation of Vessel Lumen and Vascular Calcifications in Peripheral Arterial Disease. American Journal of Roentgenology, 2019, 212, 914-918.	2.2	5
72	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 1.5ÂT. Magnetic Resonance Imaging, 2021, 78, 58-68.	1.8	5

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73	Comparison of 2D and 3D quiescent-interval slice-selective non-contrast MR angiography in patients with peripheral artery disease. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 649-658.	2.0	5
74	Non-Contrast-Enhanced Carotid MRA: Clinical Evaluation of a Novel Ungated Radial Quiescent-Interval Slice-Selective MRA at 1.5T. American Journal of Neuroradiology, 2019, 40, 1529-1537.	2.4	4
75	Evaluation of Renal Allograft Vasculature Using Non-contrast 3D Inversion Recovery Balanced Steady-state Free Precession MRA and 2D Quiescent-interval Slice-selective MRA. Exploratory Research and Hypothesis in Medicine, 2021, 000, 000-000.	0.4	4
76	Radial-based acquisition strategies for pre-procedural non-contrast cardiovascular magnetic resonance angiography of the pulmonary veins. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 78.	3.3	3
77	â€œPushâ€button"â€‘noncontrast MR angiography using balanced T_1 relaxationâ€‘enhanced steadyâ€‘state (bT1RESS). Magnetic Resonance in Medicine, 2021, 85, 1248-1257.	3.0	3
78	Cardiovascular magnetic resonance for the detection of descending thoracic aorta calcification in patients with end-stage renal disease. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 85.	3.3	3
79	Updates in Magnetic Resonance Venous Imaging. Seminars in Interventional Radiology, 2021, 38, 202-208.	0.8	3
80	Quiescentâ€‘Interval Sliceâ€‘Selective MRA Accurately Estimates Intravascular Stent Dimensions Prior to Intervention in Patients With Peripheral Artery Disease. Journal of Magnetic Resonance Imaging, 2022, 55, 246-254.	3.4	3
81	Neutral contrast MRI for the detection of peripheral arterial wall calcifications. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O76.	3.3	2
82	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. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 55.	3.3	2
83	Quantitative timeâ€‘ofâ€‘flight MR angiography for simultaneous luminal and hemodynamic evaluation of the intracranial arteries. Magnetic Resonance in Medicine, 2022, 87, 150-162.	3.0	2
84	Dark blood cardiovascular magnetic resonance of the heart, great vessels, and lungs using electrocardiographic-gated three-dimensional unbalanced steady-state free precession. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 127.	3.3	1
85	Clinical Considerations on the use of Contrast Agents for CT and MRI. , 0, , 17-30.		0
86	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). Magnetic Resonance in Medicine, 2015, 73, spcone-spcone.	3.0	0
87	Unleashing the Immune System: Cardiac MRI Depicts Myocarditis from Immune Checkpoint Inhibitors. Radiology, 2022, , 213294.	7.3	0