Matt A Bernstein

List of Publications by Year
in descending order

83 papers	6,557 citations	159585 30 h-index	91884 69 g-index
89 all docs	89 docs citations	89 times ranked	8335 citing authors

#	Article	IF	Citations
1	The Alzheimer's disease neuroimaging initiative (ADNI): MRI methods. Journal of Magnetic Resonance Imaging, 2008, 27, 685-691.	3.4	2,553
2	Encoding strategies for three-direction phase-contrast MR imaging of flow. Journal of Magnetic Resonance Imaging, 1991, 1, 405-413.	3.4	404
3	Update on the Magnetic Resonance Imaging core of the Alzheimer's Disease Neuroimaging Initiative. Alzheimer's and Dementia, 2010, 6, 212-220.	0.8	311
4	Imaging artifacts at 3.0T. Journal of Magnetic Resonance Imaging, 2006, 24, 735-746.	3.4	233
5	High-resolution intracranial and cervical MRA at 3.0T: Technical considerations and initial experience. Magnetic Resonance in Medicine, 2001, 46, 955-962.	3.0	203
6	Cardiovascular magnetic resonance phase contrast imaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 71.	3.3	184
7	Magnetic resonance imaging in Alzheimer's Disease Neuroimaging Initiative 2. Alzheimer's and Dementia, 2015, 11, 740-756.	0.8	142
8	Reconstructions of phase contrast, phased array multicoil data. Magnetic Resonance in Medicine, 1994, 32, 330-334.	3.0	135
9	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
10	Measurement of MRI scanner performance with the ADNI phantom. Medical Physics, 2009, 36, 2193-2205.	3.0	134
11	Intensity non-uniformity correction using N3 on 3-T scanners with multichannel phased array coils. NeuroImage, 2008, 39, 1752-1762.	4.2	128
12	Rich club analysis in the Alzheimer's disease connectome reveals a relatively undisturbed structural core network. Human Brain Mapping, 2015, 36, 3087-3103.	3.6	125
13	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
14	Magnetic Resonance Angiography at 3.0 Tesla: Initial Clinical Experience. Topics in Magnetic Resonance Imaging, 2001, 12, 183-204.	1.2	102
15	Improved image quality of intracranial aneurysms: 3.0-T versus 1.5-T time-of-flight MR angiography. American Journal of Neuroradiology, 2004, 25, 84-7.	2.4	99
16	Minimizing TE in moment-nulled or flow-encoded two-and three-dimensional gradient-echo imaging. Journal of Magnetic Resonance Imaging, 1992, 2, 583-588.	3.4	96
17	Comparison of phase-difference and complex-difference processing in phase-contrast MR angiography. Journal of Magnetic Resonance Imaging, 1991, 1, 725-729.	3.4	87
18	Concomitant gradient field effects in spiral scans. Magnetic Resonance in Medicine, 1999, 41, 103-112.	3.0	79

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19	Diffusion MRI Indices and Their Relation to Cognitive Impairment in Brain Aging: The Updated Multi-protocol Approach in ADNI3. Frontiers in Neuroinformatics, 2019, 13, 2.	2.5	79
20	Theoretical limits of spatial resolution in elliptical-centric contrast-enhanced 3D-MRA. Magnetic Resonance in Medicine, 1999, 42, 1106-1116.	3.0	71
21	Lightweight, compact, and highâ€performance 3<scp>T MR</scp> system for imaging the brain and extremities. Magnetic Resonance in Medicine, 2018, 80, 2232-2245.	3.0	70
22	Comparing 3 T and 1.5 T MRI for tracking Alzheimer's disease progression with tensorâ€based morphometry. Human Brain Mapping, 2010, 31, 499-514.	3.6	66
23	Concomitant magnetic-field-induced artifacts in axial echo planar imaging. Magnetic Resonance in Medicine, 1998, 39, 596-605.	3.0	65
24	Diffusion weighted imaging-based maximum density path analysis and classification of Alzheimer's disease. Neurobiology of Aging, 2015, 36, S132-S140.	3.1	61
25	Correction of concomitant magnetic field-induced image artifacts in nonaxial echo-planar imaging. Magnetic Resonance in Medicine, 2002, 48, 509-515.	3.0	58
26	Peripheral nerve stimulation characteristics of an asymmetric headâ€only gradient coil compatible with a highâ€channelâ€count receiver array. Magnetic Resonance in Medicine, 2016, 76, 1939-1950.	3.0	55
27	High slewâ€rate headâ€only gradient for improving distortion in echo planar imaging: Preliminary experience. Journal of Magnetic Resonance Imaging, 2016, 44, 653-664.	3.4	53
28	Artifacts induced by concomitant magnetic field in fast spin-echo imaging. Magnetic Resonance in Medicine, 1998, 40, 582-591.	3.0	49
29	Integrated image reconstruction and gradient nonlinearity correction. Magnetic Resonance in Medicine, 2015, 74, 1019-1031.	3.0	42
30	Connectivity network measures predict volumetric atrophy in mild cognitive impairment. Neurobiology of Aging, 2015, 36, S113-S120.	3.1	31
31	Gradient pre-emphasis to counteract first-order concomitant fields on asymmetric MRI gradient systems. Magnetic Resonance in Medicine, 2017, 77, 2250-2262.	3.0	30
32	<scp>B</scp>₀ concomitant field compensation for <scp>MRI</scp> systems employing asymmetric transverse gradient coils. Magnetic Resonance in Medicine, 2018, 79, 1538-1544.	3.0	30
33	Reproducibility and the future of MRI research. Magnetic Resonance in Medicine, 2019, 82, 1981-1983.	3.0	28
34	Serum cholesterol and variant in cholesterol-related gene CETP predict white matter microstructure. Neurobiology of Aging, 2014, 35, 2504-2513.	3.1	26
35	Feature selection improves the accuracy of classifying Alzheimer disease using diffusion tensor images. , 2015, 2015, 126-130.		25
36	Technical Note: Compact threeâ€tesla magnetic resonance imager with highâ€performance gradients passes ACR image quality and acoustic noise tests. Medical Physics, 2016, 43, 1259-1264.	3.0	23

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37	Correction of metal-induced susceptibility artifacts for functional MRI during deep brain stimulation. NeuroImage, 2017, 158, 26-36.	4.2	22
38	Oscillating diffusionâ€encoding with a high gradientâ€amplitude and high slewâ€rate headâ€only gradient for human brain imaging. Magnetic Resonance in Medicine, 2020, 84, 950-965.	3.0	22
39	Reduction of RF power for magnetization transfer with optimized application of RF pulses ink-space. Magnetic Resonance in Medicine, 2003, 50, 114-121.	3.0	20
40	3D magnetization prepared elliptical centric fast gradient echo imaging. Magnetic Resonance in Medicine, 2008, 59, 434-439.	3.0	19
41	Image-based gradient non-linearity characterization to determine higher-order spherical harmonic coefficients for improved spatial position accuracy in magnetic resonance imaging. Magnetic Resonance Imaging, 2017, 38, 54-62.	1.8	19
42	Effects of MRI scan acceleration on brain volume measurement consistency. Journal of Magnetic Resonance Imaging, 2012, 36, 1234-1240.	3.4	18
43	Algebraic Connectivity of Brain Networks Shows Patterns of Segregation Leading to Reduced Network Robustness in Alzheimerâ€™s Disease. Mathematics and Visualization, 2014, 2014, 55-64.	0.6	18
44	Calorimetric calibration of head coil SAR estimates displayed on a clinical MR scanner. Physics in Medicine and Biology, 2008, 53, 2565-2576.	3.0	17
45	NonCartesian MR image reconstruction with integrated gradient nonlinearity correction. Medical Physics, 2015, 42, 7190-7201.	3.0	17
46	Spectral graph theory and graph energy metrics show evidence for the alzheimer's disease disconnection syndrome in APOE-4 risk gene carriers. , 2015, 2015, 458-461.		17
47	Three-dimensional MRI with an undersampled spherical shells trajectory. Magnetic Resonance in Medicine, 2006, 56, 553-562.	3.0	16
48	Distortionâ€free imaging: A double encoding method (DIADEM) combined with multiband imaging for rapid distortionâ€free highâ€resolution diffusion imaging on a compact 3T with highâ€performance gradients. Journal of Magnetic Resonance Imaging, 2020, 51, 296-310.	3.4	15
49	Comparison of accelerated T1-weighted whole-brain structural-imaging protocols. NeuroImage, 2016, 124, 157-167.	4.2	14
50	MRI in radiation oncology: Underserved needs. Magnetic Resonance in Medicine, 2016, 75, 11-14.	3.0	13
51	Improving apparent diffusion coefficient accuracy on a compact 3T MRI scanner using gradient nonlinearity correction. Journal of Magnetic Resonance Imaging, 2018, 48, 1498-1507.	3.4	13
52	Partial fourier and parallel <scp>MR</scp> image reconstruction with integrated gradient nonlinearity correction. Magnetic Resonance in Medicine, 2016, 75, 2534-2544.	3.0	12
53	Reducing PNS with minimal performance penalties via simple pulse sequence modifications on a high-performance compact 3T scanner. Physics in Medicine and Biology, 2020, 65, 15NT02.	3.0	11
54	Motion correction properties of the shells k-space trajectory. Magnetic Resonance Imaging, 2006, 24, 739-749.	1.8	10

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55	Does MRI scan acceleration affect power to track brain change?. Neurobiology of Aging, 2015, 36, S167-S177.	3.1	10
56	Application of Adaptive Image Receive Coil Technology for Whole-Brain Imaging. American Journal of Roentgenology, 2021, 216, 552-559.	2.2	10
57	Hybrid phased array for improved internal auditory canal imaging at 3.0-T MR. Journal of Magnetic Resonance Imaging, 2002, 16, 300-304.	3.4	9
58	Sparsity and lowâ€contrast object detectability. Magnetic Resonance in Medicine, 2012, 67, 1022-1032.	3.0	9
59	The effect of concomitant fields in fast spin echo acquisition on asymmetric MRI gradient systems. Magnetic Resonance in Medicine, 2018, 79, 1354-1364.	3.0	9
60	Findings of the AAPM Ad Hoc committee on magnetic resonance imaging in radiation therapy: Unmet needs, opportunities, and recommendations. Medical Physics, 2021, 48, 4523-4531.	3.0	9
61	ANGIOGRAPHIC PULSE SEQUENCES. , 2004, , 648-701.		8
62	RINGLET motion correction for 3D MRI acquired with the elliptical centric view order. Magnetic Resonance in Medicine, 2003, 50, 802-812.	3.0	7
63	Temporal lobe anatomy: eight imaging signs to facilitate interpretation of MRI. Surgical and Radiologic Anatomy, 2016, 38, 433-443.	1.2	7
64	The effect of spiral trajectory correction on pseudoâ€continuous arterial spin labeling with highâ€performance gradients on a compact 3T scanner. Magnetic Resonance in Medicine, 2020, 84, 192-205.	3.0	7
65	Contrastâ€enhanced intracranial magnetic resonance angiography with a spherical shells trajectory and online gridding reconstruction. Journal of Magnetic Resonance Imaging, 2009, 30, 1101-1109.	3.4	6
66	Reduced acoustic noise in diffusion tensor imaging on a compact <scp>MRI</scp> system. Magnetic Resonance in Medicine, 2018, 79, 2902-2911.	3.0	6
67	The benefit of high-performance gradients on echo planar imaging for BOLD-based resting-state functional MRI. Physics in Medicine and Biology, 2020, 65, 235024.	3.0	6
68	High Performance Non-uniform FFT on Modern X86-based Multi-core Systems. , 2012, , .		5
69	Systematic Dimensional Analysis of the Scaling Relationship for Gradient and Shim Coil Design Parameters. Magnetic Resonance in Medicine, 0, , .	3.0	4
70	Magnetizationâ€prepared shells trajectory with automated gradient waveform design. Magnetic Resonance in Medicine, 2018, 79, 2024-2035.	3.0	3
71	Partial fourier shells trajectory for non-cartesian MRI. Physics in Medicine and Biology, 2019, 64, 04NT01.	3.0	3
72	Improved Brain MR Imaging from a Compact, Lightweight 3T Scanner with Highâ€Performance Gradients. Journal of Magnetic Resonance Imaging, 2021, , .	3.4	3

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73	COMMON IMAGE RECONSTRUCTION TECHNIQUES. , 2004, , 491-571.		3
74	Leftâ€“Right Intensity Asymmetries Vary Depending on Scanner Model for FLAIR and T 1 Weighted MRI Images. Journal of Magnetic Resonance Imaging, 2022, , .	3.4	3
75	Equations Representing Physical Quantities. , 0, , 1-17.		1
76	Diffusion tensor distribution function metrics boost power to detect deficits in Alzheimer's disease. , 2016, , .		1
77	Evaluation of hearing loss in young adults after exposure to 3.0T MRI with standard hearing protection. Journal of the Acoustical Society of America, 2022, 151, 1913-1921.	1.1	1
78	Head and Neck MRA at 3.0T. Current Protocols in Magnetic Resonance Imaging, 2008, 15, A7.8.1.	0.0	0
79	A Few Pitfalls and a Few Useful Tricks. , 0, , 18-46.		0
80	Estimation and Approximation. , 0, , 115-154.		0
81	Introduction to Dimensional Analysis and Scaling. , 0, , 155-187.		0
82	Generalizing Equations. , 0, , 188-213.		0
83	Model-Based Iterative Reconstruction for Echo Planar Imaging: Methods and Applications. , 2019, , .		0