

Matt A Bernstein

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | Application of Adaptive Image Receive Coil Technology for Whole-Brain Imaging. American Journal of Roentgenology, 2021, 216, 552-559. | 2.2 | 10 |
| 4 | Improved Brain MR Imaging from a Compact, Lightweight 3T Scanner with Highâ€Performance Gradients. Journal of Magnetic Resonance Imaging, 2021, , . | 3.4 | 3 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Reproducibility and the future of MRI research. Magnetic Resonance in Medicine, 2019, 82, 1981-1983. | 3.0 | 28 |
| 12 | 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 |
| 13 | Model-Based Iterative Reconstruction for Echo Planar Imaging: Methods and Applications. , 2019, , . | | 0 |
| 14 | Partial fourier shells trajectory for non-cartesian MRI. Physics in Medicine and Biology, 2019, 64, 04NT01. | 3.0 | 3 |
| 15 | Lightweight, compact, and highâ€performance 3<sc>T MR</sc> system for imaging the brain and extremities. Magnetic Resonance in Medicine, 2018, 80, 2232-2245. | 3.0 | 70 |
| 16 | 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 |
| 17 | <sc>B</sc>₀ concomitant field compensation for <sc>MRI</sc> systems employing asymmetric transverse gradient coils. Magnetic Resonance in Medicine, 2018, 79, 1538-1544. | 3.0 | 30 |
| 18 | Reduced acoustic noise in diffusion tensor imaging on a compact <sc>MRI</sc> system. Magnetic Resonance in Medicine, 2018, 79, 2902-2911. | 3.0 | 6 |

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|----|--|-----|-----------|
| 19 | Magnetization-prepared shells trajectory with automated gradient waveform design. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2024-2035. | 3.0 | 3 |
| 20 | Improving apparent diffusion coefficient accuracy on a compact 3T MRI scanner using gradient nonlinearity correction. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1498-1507. | 3.4 | 13 |
| 21 | Image-based gradient non-linearity characterization to determine higher-order spherical harmonic coefficients for improved spatial position accuracy in magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2017, 38, 54-62. | 1.8 | 19 |
| 22 | Correction of metal-induced susceptibility artifacts for functional MRI during deep brain stimulation. <i>NeuroImage</i> , 2017, 158, 26-36. | 4.2 | 22 |
| 23 | Gradient pre-emphasis to counteract first-order concomitant fields on asymmetric MRI gradient systems. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2250-2262. | 3.0 | 30 |
| 24 | Peripheral nerve stimulation characteristics of an asymmetric head-only gradient coil compatible with a high-channel-count receiver array. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1939-1950. | 3.0 | 55 |
| 25 | Partial fourier and parallel MR image reconstruction with integrated gradient nonlinearity correction. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2534-2544. | 3.0 | 12 |
| 26 | Technical Note: Compact three-tesla magnetic resonance imager with high-performance gradients passes ACR image quality and acoustic noise tests. <i>Medical Physics</i> , 2016, 43, 1259-1264. | 3.0 | 23 |
| 27 | Diffusion tensor distribution function metrics boost power to detect deficits in Alzheimer's disease. , 2016, , . | | 1 |
| 28 | MRI in radiation oncology: Underserved needs. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 11-14. | 3.0 | 13 |
| 29 | High slew-rate head-only gradient for improving distortion in echo planar imaging: Preliminary experience. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 653-664. | 3.4 | 53 |
| 30 | Comparison of accelerated T1-weighted whole-brain structural-imaging protocols. <i>NeuroImage</i> , 2016, 124, 157-167. | 4.2 | 14 |
| 31 | Temporal lobe anatomy: eight imaging signs to facilitate interpretation of MRI. <i>Surgical and Radiologic Anatomy</i> , 2016, 38, 433-443. | 1.2 | 7 |
| 32 | NonCartesian MR image reconstruction with integrated gradient nonlinearity correction. <i>Medical Physics</i> , 2015, 42, 7190-7201. | 3.0 | 17 |
| 33 | Integrated image reconstruction and gradient nonlinearity correction. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1019-1031. | 3.0 | 42 |
| 34 | Rich club analysis in the Alzheimer's disease connectome reveals a relatively undisturbed structural core network. <i>Human Brain Mapping</i> , 2015, 36, 3087-3103. | 3.6 | 125 |
| 35 | Does MRI scan acceleration affect power to track brain change?. <i>Neurobiology of Aging</i> , 2015, 36, S167-S177. | 3.1 | 10 |
| 36 | Diffusion weighted imaging-based maximum density path analysis and classification of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015, 36, S132-S140. | 3.1 | 61 |

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|----|--|-----|-----------|
| 37 | Magnetic resonance imaging in Alzheimer's Disease Neuroimaging Initiative 2. Alzheimer's and Dementia, 2015, 11, 740-756. | 0.8 | 142 |
| 38 | 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 |
| 39 | Feature selection improves the accuracy of classifying Alzheimer disease using diffusion tensor images. , 2015, 2015, 126-130. | | 25 |
| 40 | Cardiovascular magnetic resonance phase contrast imaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 71. | 3.3 | 184 |
| 41 | Connectivity network measures predict volumetric atrophy in mild cognitive impairment. Neurobiology of Aging, 2015, 36, S113-S120. | 3.1 | 31 |
| 42 | Serum cholesterol and variant in cholesterol-related gene CETP predict white matter microstructure. Neurobiology of Aging, 2014, 35, 2504-2513. | 3.1 | 26 |
| 43 | Algebraic Connectivity of Brain Networks Shows Patterns of Segregation Leading to Reduced Network Robustness in Alzheimer's Disease. Mathematics and Visualization, 2014, 2014, 55-64. | 0.6 | 18 |
| 44 | High Performance Non-uniform FFT on Modern X86-based Multi-core Systems. , 2012, , . | | 5 |
| 45 | Effects of MRI scan acceleration on brain volume measurement consistency. Journal of Magnetic Resonance Imaging, 2012, 36, 1234-1240. | 3.4 | 18 |
| 46 | Sparsity and low-contrast object detectability. Magnetic Resonance in Medicine, 2012, 67, 1022-1032. | 3.0 | 9 |
| 47 | Comparing 3 T and 1.5 T MRI for tracking Alzheimer's disease progression with tensor-based morphometry. Human Brain Mapping, 2010, 31, 499-514. | 3.6 | 66 |
| 48 | 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 |
| 49 | Contrast-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 |
| 50 | Measurement of MRI scanner performance with the ADNI phantom. Medical Physics, 2009, 36, 2193-2205. | 3.0 | 134 |
| 51 | The Alzheimer's disease neuroimaging initiative (ADNI): MRI methods. Journal of Magnetic Resonance Imaging, 2008, 27, 685-691. | 3.4 | 2,553 |
| 52 | 3D magnetization prepared elliptical centric fast gradient echo imaging. Magnetic Resonance in Medicine, 2008, 59, 434-439. | 3.0 | 19 |
| 53 | Intensity non-uniformity correction using N3 on 3-T scanners with multichannel phased array coils. NeuroImage, 2008, 39, 1752-1762. | 4.2 | 128 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Head and Neck MRA at 3.0T. Current Protocols in Magnetic Resonance Imaging, 2008, 15, A7.8.1. | 0.0 | 0 |
| 56 | Motion correction properties of the shells k-space trajectory. Magnetic Resonance Imaging, 2006, 24, 739-749. | 1.8 | 10 |
| 57 | Three-dimensional MRI with an undersampled spherical shells trajectory. Magnetic Resonance in Medicine, 2006, 56, 553-562. | 3.0 | 16 |
| 58 | Imaging artifacts at 3.0T. Journal of Magnetic Resonance Imaging, 2006, 24, 735-746. | 3.4 | 233 |
| 59 | COMMON IMAGE RECONSTRUCTION TECHNIQUES. , 2004, , 491-571. | | 3 |
| 60 | ANGIOGRAPHIC PULSE SEQUENCES. , 2004, , 648-701. | | 8 |
| 61 | 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 |
| 62 | 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 |
| 63 | RINGLET motion correction for 3D MRI acquired with the elliptical centric view order. Magnetic Resonance in Medicine, 2003, 50, 802-812. | 3.0 | 7 |
| 64 | 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 |
| 65 | Correction of concomitant magnetic field-induced image artifacts in nonaxial echo-planar imaging. Magnetic Resonance in Medicine, 2002, 48, 509-515. | 3.0 | 58 |
| 66 | Magnetic Resonance Angiography at 3.0 Tesla: Initial Clinical Experience. Topics in Magnetic Resonance Imaging, 2001, 12, 183-204. | 1.2 | 102 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Concomitant gradient field effects in spiral scans. Magnetic Resonance in Medicine, 1999, 41, 103-112. | 3.0 | 79 |
| 71 | Theoretical limits of spatial resolution in elliptical-centric contrast-enhanced 3D-MRA. Magnetic Resonance in Medicine, 1999, 42, 1106-1116. | 3.0 | 71 |
| 72 | Concomitant magnetic-field-induced artifacts in axial echo planar imaging. Magnetic Resonance in Medicine, 1998, 39, 596-605. | 3.0 | 65 |

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|----|---|-----|-----------|
| 73 | Artifacts induced by concomitant magnetic field in fast spin-echo imaging. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 582-591. | 3.0 | 49 |
| 74 | Reconstructions of phase contrast, phased array multicoil data. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 330-334. | 3.0 | 135 |
| 75 | Minimizing TE in moment-nulled or flow-encoded two-and three-dimensional gradient-echo imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 583-588. | 3.4 | 96 |
| 76 | Encoding strategies for three-direction phase-contrast MR imaging of flow. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 405-413. | 3.4 | 404 |
| 77 | Comparison of phase-difference and complex-difference processing in phase-contrast MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 725-729. | 3.4 | 87 |
| 78 | Equations Representing Physical Quantities. , 0, , 1-17. | | 1 |
| 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 | Systematic Dimensional Analysis of the Scaling Relationship for Gradient and Shim Coil Design Parameters. <i>Magnetic Resonance in Medicine</i> , 0, , . | 3.0 | 4 |