

# James S Babb

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

5,222  
citations

182225

30  
h-index

104191

69  
g-index

93  
all docs

93  
docs citations

93  
times ranked

9405  
citing authors

#	ARTICLE	IF	CITATIONS
1	T1 and T2 quantification using magnetic resonance fingerprinting in mild traumatic brain injury. <i>European Radiology</i> , 2022, 32, 1308-1319.	2.3	4
2	Repeatability, robustness, and reproducibility of texture features on 3T liver MRI. <i>Clinical Imaging</i> , 2022, 83, 177-183.	0.8	4
3	Outcomes of Incidental Lung Nodules With Structured Recommendations and Electronic Tracking. <i>Journal of the American College of Radiology</i> , 2022, 19, 407-414.	0.9	2
4	Association between lower body temperature and increased tau pathology in cognitively normal older adults. <i>Neurobiology of Disease</i> , 2022, 171, 105748.	2.1	3
5	Non-invasive quantification of inflammation, axonal and myelin injury in multiple sclerosis. <i>Brain</i> , 2021, 144, 213-223.	3.7	27
6	Global brain volume and N-acetyl-aspartate decline over seven decades of normal aging. <i>Neurobiology of Aging</i> , 2021, 98, 42-51.	1.5	14
7	Quantitative Macromolecular Proton Fraction Mapping Reveals Altered Cortical Myelin Profile in Schizophrenia Spectrum Disorders. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab015.	0.7	8
8	Global decrease in brain sodium concentration after mild traumatic brain injury. <i>Brain Communications</i> , 2021, 3, fcab051.	1.5	12
9	Influence of coronary dominance on coronary artery calcification burden. <i>Clinical Imaging</i> , 2021, 77, 283-286.	0.8	1
10	Impact of COVID-19 on Radiology Faculty - An Exacerbation of Gender Differences in Unpaid Home Duties and Professional Productivity. <i>Academic Radiology</i> , 2021, 28, 1185-1190.	1.3	13
11	Artificial intelligence system reduces false-positive findings in the interpretation of breast ultrasound exams. <i>Nature Communications</i> , 2021, 12, 5645.	5.8	94
12	Dynamic Contrast-Enhanced MRI Evaluation of Pathologic Complete Response in Human Epidermal Growth Factor Receptor 2 (HER2)-Positive Breast Cancer After HER2-Targeted Therapy. <i>Academic Radiology</i> , 2020, 27, e87-e93.	1.3	14
13	Reduced Microstructural Lateralization in Males with Chronic Schizophrenia: A Diffusional Kurtosis Imaging Study. <i>Cerebral Cortex</i> , 2020, 30, 2281-2294.	1.6	5
14	Translation of 2-Dimensional Wrist Radiographic Measurements to 3-Dimensional CT Scans. <i>Journal of Hand Surgery Asian-Pacific Volume</i> , The, 2020, 25, 315-319.	0.2	0
15	PET imaging of net availability in humans using [ <sup>11</sup> C]MRB: Age, gender and ethnicity effects. <i>Alzheimer's and Dementia</i> , 2020, 16, e041956.	0.4	0
16	Three-dimensional MRI Bone Models of the Glenohumeral Joint Using Deep Learning: Evaluation of Normal Anatomy and Glenoid Bone Loss. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190116.	3.0	9
17	Pulmonary Embolism at CT Pulmonary Angiography in Patients with COVID-19. <i>Radiology: Cardiothoracic Imaging</i> , 2020, 2, e200308.	0.9	58
18	Diffusion MRI biomarkers of white matter microstructure vary nonmonotonically with increasing cerebral amyloid deposition. <i>Neurobiology of Aging</i> , 2020, 89, 118-128.	1.5	48

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19	Preliminary study: Breast cancers can be well seen on 3T breast MRI with a half-dose of gadobutrol. <i>Clinical Imaging</i> , 2019, 58, 84-89.	0.8	10
20	A New Method for Cartilage Evaluation in Femoroacetabular Impingement Using Quantitative T2 Magnetic Resonance Imaging: Preliminary Validation against Arthroscopic Findings. <i>Cartilage</i> , 2019, , 194760351987085.	1.4	14
21	City Patterns of Screening Mammography Uptake and Disparity across the United States. <i>Radiology</i> , 2019, 293, 151-157.	3.6	13
22	Breast Cancer Screening in High-Risk Men: A 12-year Longitudinal Observational Study of Male Breast Imaging Utilization and Outcomes. <i>Radiology</i> , 2019, 293, 282-291.	3.6	43
23	Diffusion kurtosis imaging of gray matter in schizophrenia. <i>Cortex</i> , 2019, 121, 201-224.	1.1	16
24	Preliminary analysis: Background parenchymal 18F-FDG uptake in breast cancer patients appears to correlate with background parenchymal enhancement and to vary by distance from the index cancer. <i>European Journal of Radiology</i> , 2019, 110, 163-168.	1.2	3
25	Quantitative multivoxel proton MR spectroscopy for the identification of white matter abnormalities in mild traumatic brain injury: Comparison between regional and global analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1424-1432.	1.9	11
26	Quantitative magnetic resonance evaluation of the trigeminal nerve in familial dysautonomia. <i>Clinical Autonomic Research</i> , 2019, 29, 469-473.	1.4	3
27	Rapid Radial T <sub>1</sub> and T <sub>2</sub> Mapping of the Hip Articular Cartilage With Magnetic Resonance Fingerprinting. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 810-815.	1.9	46
28	Canceled MRI-guided Breast Biopsies Due to Nonvisualization. <i>Academic Radiology</i> , 2018, 25, 1101-1110.	1.3	15
29	Stereotactic Breast Biopsy With Benign Results Does Not Negatively Affect Future Screening Adherence. <i>Journal of the American College of Radiology</i> , 2018, 15, 622-629.	0.9	3
30	What Happens after a Diagnosis of High-Risk Breast Lesion at Stereotactic Vacuum-assisted Biopsy? An Observational Study of Postdiagnosis Management and Imaging Adherence. <i>Radiology</i> , 2018, 287, 423-431.	3.6	10
31	REnal Flow and Microstructure Anisotropy (REFMAP) MRI in Normal and Peritumoral Renal Tissue. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 188-197.	1.9	11
32	Longitudinal study of sodium MRI of articular cartilage in patients with knee osteoarthritis: initial experience with 16-month follow-up. <i>European Radiology</i> , 2018, 28, 133-142.	2.3	21
33	Participation and payments in the PQRS Maintenance of Certification Program: Implications for future merit based payment programs. <i>Healthcare</i> , 2018, 6, 28-32.	0.6	0
34	Trends in breast imaging: an analysis of 21 years of formal scientific abstracts at the Radiological Society of North America. <i>Clinical Imaging</i> , 2018, 49, 1-6.	0.8	1
35	Feasibility analysis of early temporal kinetics as a surrogate marker for breast tumor type, grade, and aggressiveness. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1692-1700.	1.9	13
36	White Matter Tract Integrity: An Indicator of Axonal Pathology after Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 1015-1020.	1.7	30

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37	Obstructive Sleep Apnea Severity Affects Amyloid Burden in Cognitively Normal Elderly. A Longitudinal Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 933-943.	2.5	174
38	Comparison between qualitative and quantitative assessment of background parenchymal enhancement on breast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1685-1691.	1.9	12
39	Diffusional kurtosis imaging of the corpus callosum in autism. <i>Molecular Autism</i> , 2018, 9, 62.	2.6	23
40	Segmentation of the Proximal Femur from MR Images using Deep Convolutional Neural Networks. <i>Scientific Reports</i> , 2018, 8, 16485.	1.6	122
41	Comparison of hybrid 18F-fluorodeoxyglucose positron emission tomography/magnetic resonance imaging and positron emission tomography/computed tomography for evaluation of peripheral nerve sheath tumors in patients with neurofibromatosis type 1. <i>World Journal of Nuclear Medicine</i> , 2018, 17, 241.	0.3	17
42	Background parenchymal enhancement over exam time in patients with and without breast cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 74-83.	1.9	18
43	Clinical applicability and relevance of fibroglandular tissue segmentation on routine T1 weighted breast MRI. <i>Clinical Imaging</i> , 2017, 42, 119-125.	0.8	5
44	Comparative performance of non-contrast MRI with HASTE vs. contrast-enhanced MRI/3D-MRCP for possible choledocholithiasis in hospitalized patients. <i>Abdominal Radiology</i> , 2017, 42, 1650-1658.	1.0	13
45	A low-cost Mr compatible ergometer to assess post-exercise phosphocreatine recovery kinetics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 281-289.	1.1	5
46	Low dose computed tomography pulmonary angiography protocol for imaging pregnant patients: Can dose reduction be achieved without reducing image quality?. <i>Clinical Imaging</i> , 2017, 44, 101-105.	0.8	13
47	Changes in Emergency Department Imaging: Perspectives From National Patient Surveys Over Two Decades. <i>Journal of the American College of Radiology</i> , 2017, 14, 1282-1290.	0.9	33
48	Comparison of conventional DCE-MRI and a novel golden-angle radial multicoil compressed sensing method for the evaluation of breast lesion conspicuity. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1746-1752.	1.9	36
49	Proton MR spectroscopy of lesion evolution in multiple sclerosis: Steady-state metabolism and its relationship to conventional imaging. <i>Human Brain Mapping</i> , 2017, 38, 4047-4063.	1.9	18
50	Diagnosis of Superior Labrum Anterior-to-Posterior Tears by Using MR Imaging and MR Arthrography: A Systematic Review and Meta-Analysis. <i>Radiology</i> , 2017, 285, 101-113.	3.6	53
51	Evaluation of HCC response to locoregional therapy: Validation of MRI-based response criteria versus explant pathology. <i>Journal of Hepatology</i> , 2017, 67, 1213-1221.	1.8	52
52	Global brain metabolic quantification with whole-head proton MRS at 3T. <i>NMR in Biomedicine</i> , 2017, 30, e3754.	1.6	4
53	Proposed Adjustments to PI-RADS Version 2 Decision Rules: Impact on Prostate Cancer Detection. <i>Radiology</i> , 2017, 283, 119-129.	3.6	142
54	Quantifying global-brain metabolite level changes with whole-head proton MR spectroscopy at 3 T. <i>Magnetic Resonance Imaging</i> , 2017, 35, 15-19.	1.0	4

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55	Length of capsular contact for diagnosing extraprostatic extension on prostate MRI: Assessment at an optimal threshold. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 990-997.	1.9	88
56	Standardized Uptake Values from PET/MRI in Metastatic Breast Cancer: An Organ-based Comparison With PET/CT. <i>Breast Journal</i> , 2016, 22, 264-273.	0.4	25
57	Likert score 3 prostate lesions: Association between whole-body lesion ADC metrics and pathologic findings at MRI/ultrasound fusion targeted biopsy. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 325-332.	1.9	25
58	Cervical spinal cord atrophy in NMOSD without a history of myelitis or MRI-visible lesions. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2016, 3, e224.	3.1	51
59	Rapid and sustained symptom reduction following psilocybin treatment for anxiety and depression in patients with life-threatening cancer: a randomized controlled trial. <i>Journal of Psychopharmacology</i> , 2016, 30, 1165-1180.	2.0	973
60	Metabolic Abnormalities in the Hippocampus of Patients with Schizophrenia: A 3D Multivoxel MR Spectroscopic Imaging Study at 3T. <i>American Journal of Neuroradiology</i> , 2016, 37, 2273-2279.	1.2	12
61	Comparison of Whole-Body <sup>18</sup> F FDG PET/MR Imaging and Whole-Body <sup>18</sup> F FDG PET/CT in Terms of Lesion Detection and Radiation Dose in Patients with Breast Cancer. <i>Radiology</i> , 2016, 281, 193-202.	3.6	99
62	Interobserver Reproducibility of the PI-RADS Version 2 Lexicon: A Multicenter Study of Six Experienced Prostate Radiologists. <i>Radiology</i> , 2016, 280, 793-804.	3.6	398
63	Most Common Publication Types in Radiology Journals. <i>Academic Radiology</i> , 2016, 23, 628-633.	1.3	13
64	Prostate Cancer Detection Using Computed Very High b-value Diffusion-weighted Imaging: How High Should We Go?. <i>Academic Radiology</i> , 2016, 23, 704-711.	1.3	52
65	Three-dimensional MR Cholangiopancreatography in a Breath Hold with Sparsity-based Reconstruction of Highly Undersampled Data. <i>Radiology</i> , 2016, 280, 585-594.	3.6	55
66	Evaluation of Breast Lipid Composition in Patients with Benign Tissue and Cancer by Using Multiple Gradient-Echo MR Imaging. <i>Radiology</i> , 2016, 281, 43-53.	3.6	30
67	Evaluation of a known breast cancer using an abbreviated breast MRI protocol: Correlation of imaging characteristics and pathology with lesion detection and conspicuity. <i>European Journal of Radiology</i> , 2016, 85, 815-823.	1.2	110
68	Diagnostic Performance of Cardiac Magnetic Resonance Imaging and Echocardiography in Evaluation of Cardiac and Paracardiac Masses. <i>American Journal of Cardiology</i> , 2016, 117, 135-140.	0.7	50
69	In vivo quantification of demyelination and recovery using compartment-specific diffusion MRI metrics validated by electron microscopy. <i>NeuroImage</i> , 2016, 132, 104-114.	2.1	156
70	Assessment of Background Parenchymal Enhancement and Lesion Kinetics in Breast MRI of BRCA 1/2 Mutation Carriers Compared to Matched Controls Using Quantitative Kinetic Analysis. <i>Academic Radiology</i> , 2016, 23, 358-367.	1.3	8
71	Dixon Sequence with Superimposed Model-Based Bone Compartment Provides Highly Accurate PET/MR Attenuation Correction of the Brain. <i>Journal of Nuclear Medicine</i> , 2016, 57, 918-924.	2.8	76
72	Routine Antibiotic Prophylaxis for Totally Implantable Venous Access Device Placement: Meta-Analysis of 2,154 Patients. <i>Journal of Vascular and Interventional Radiology</i> , 2016, 27, 339-343.	0.2	32

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73	Evaluation of breast cancer using intravoxel incoherent motion (IVIM) histogram analysis: comparison with malignant status, histological subtype, and molecular prognostic factors. <i>European Radiology</i> , 2016, 26, 2547-2558.	2.3	122
74	3 Tesla MRI detects deterioration in proximal femur microarchitecture and strength in long-term glucocorticoid users compared with controls. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1489-1496.	1.9	21
75	Comparison of fitting methods and value sampling strategies for intravoxel incoherent motion in breast cancer. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1077-1085.	1.9	95
76	Diffusional kurtosis imaging in hydrocephalus. <i>Magnetic Resonance Imaging</i> , 2015, 33, 531-536.	1.0	8
77	Local radiotherapy and granulocyte-macrophage colony-stimulating factor to generate abscopal responses in patients with metastatic solid tumours: a proof-of-principle trial. <i>Lancet Oncology</i> , The, 2015, 16, 795-803.	5.1	546
78	TGF $\beta$ 2 Is a Master Regulator of Radiation Therapy-Induced Antitumor Immunity. <i>Cancer Research</i> , 2015, 75, 2232-2242.	0.4	429
79	Comparison of contrast enhancement and diffusion-weighted magnetic resonance imaging in healthy and cancerous breast tissue. <i>European Journal of Radiology</i> , 2015, 84, 1888-1893.	1.2	16
80	Repeatability of Quantitative Sodium Magnetic Resonance Imaging for Estimating Pseudo-Intracellular Sodium Concentration and Pseudo-Extracellular Volume Fraction in Brain at 3 T. <i>PLoS ONE</i> , 2015, 10, e0118692.	1.1	26
81	Constrained by Our Connections: White Matter's Key Role in Interindividual Variability in Visual Working Memory Capacity. <i>Journal of Neuroscience</i> , 2014, 34, 14913-14918.	1.7	26
82	Invariant natural killer T cells regulate anti-tumor immunity by controlling the population of dendritic cells in tumor and draining lymph nodes. , 2014, 2, 37.		29
83	Global N-Acetylaspartate in Normal Subjects, Mild Cognitive Impairment and Alzheimer's Disease Patients. <i>Journal of Alzheimer's Disease</i> , 2014, 43, 939-947.	1.2	27
84	Evaluation of Subchondral Bone Marrow Lipids of Acute Anterior Cruciate Ligament (ACL)-Injured Patients at 3T. <i>Academic Radiology</i> , 2014, 21, 758-766.	1.3	6
85	Axonal deficits in young adults with High Functioning Autism and their impact on processing speed. <i>NeuroImage: Clinical</i> , 2014, 4, 417-425.	1.4	61
86	Abstract 633: Inhibition of TGF $\beta$ 2 as a strategy to convert the irradiated tumor into in situ individualized vaccine. , 2014, , .		0
87	2081 Characterization of dysfunction in LVH with tagged MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, .	1.6	0
88	Robust and conventional neuropsychological norms: Diagnosis and prediction of age-related cognitive decline.. <i>Neuropsychology</i> , 2008, 22, 469-484.	1.0	74
89	Subjective Memory Complaints: Presence, Severity and Future Outcome in Normal Older Subjects. <i>Dementia and Geriatric Cognitive Disorders</i> , 2007, 24, 177-184.	0.7	148
90	Utility of Sagittal Reformatted Computerized Tomographic Images in the Evaluation of the Frontal Sinus Outflow Tract. <i>American Journal of Rhinology &amp; Allergy</i> , 2005, 19, 159-165.	2.3	12