

Michael A Jacobs

List of Publications by Year in Descending Order

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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.

128
papers

6,699
citations

49
h-index

79
g-index

135
ext. papers

7,680
ext. citations

6
avg, IF

5.84
L-index

#	Paper	IF	Citations
128	Long-Term Stability of Gradient Characteristics Warrants Model-Based Correction of Diffusion Weighting Bias.. <i>Tomography</i> , 2022 , 8, 364-375	3.1	1
127	Radiomic Analysis: Study Design, Statistical Analysis, and Other Bias Mitigation Strategies.. <i>Radiology</i> , 2022 , 211597	20.5	4
126	Multi-Site Concordance of Diffusion-Weighted Imaging Quantification for Assessing Prostate Cancer Aggressiveness. <i>Journal of Magnetic Resonance Imaging</i> , 2021 ,	5.6	2
125	Multiparametric radiomic tissue signature and machine learning for distinguishing radiation necrosis from tumor progression after stereotactic radiosurgery.. <i>Neuro-Oncology Advances</i> , 2021 , 3, vdab150	0.9	0
124	A Deep Learning System for Synthetic Knee Magnetic Resonance Imaging: Is Artificial Intelligence-Based Fat-Suppressed Imaging Feasible?. <i>Investigative Radiology</i> , 2021 , 56, 357-368	10.1	9
123	A phase Ib/IIa, open-label, multiple ascending-dose trial of domagrozumab in fukutin-related protein limb-girdle muscular dystrophy. <i>Muscle and Nerve</i> , 2021 , 64, 172-179	3.4	0
122	Longitudinal functional and imaging outcome measures in FKRP limb-girdle muscular dystrophy. <i>BMC Neurology</i> , 2020 , 20, 196	3.1	7
121	Letter: Design flaws in study of differentiating functional abdominal pain, recurrent acute pancreatitis and chronic pancreatitis via radiomics features. AuthorsSreply. <i>European Journal of Radiology</i> , 2020 , 125, 108871	4.7	
120	Multiparametric radiomics methods for breast cancer tissue characterization using radiological imaging. <i>Breast Cancer Research and Treatment</i> , 2020 , 180, 407-421	4.4	16
119	Radiomic features of the pancreas on CT imaging accurately differentiate functional abdominal pain, recurrent acute pancreatitis, and chronic pancreatitis. <i>European Journal of Radiology</i> , 2020 , 123, 108778	4.7	16
118	Integrated Multiparametric Radiomics and Informatics System for Characterizing Breast Tumor Characteristics with the OncotypeDX Gene Assay. <i>Cancers</i> , 2020 , 12,	6.6	5
117	Brain metabolites in cholinergic and glutamatergic pathways are altered by pancreatic cancer cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020 , 11, 1487-1500	10.3	4
116	Multiparametric deep learning tissue signatures for a radiological biomarker of breast cancer: Preliminary results. <i>Medical Physics</i> , 2020 , 47, 75-88	4.4	10
115	Deep learning and radiomics in precision medicine. <i>Expert Review of Precision Medicine and Drug Development</i> , 2019 , 4, 59-72	1.6	81
114	Radiomic Synthesis Using Deep Convolutional Neural Networks 2019 ,		2
113	Measurement Repeatability of F-FDG PET/CT Versus F-FDG PET/MRI in Solid Tumors of the Pelvis. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 1080-1086	8.9	17
112	Multiparametric Whole-body MRI with Diffusion-weighted Imaging and ADC Mapping for the Identification of Visceral and Osseous Metastases From Solid Tumors. <i>Academic Radiology</i> , 2018 , 25, 1405-1414	4.3	20

111	Multisite concordance of apparent diffusion coefficient measurements across the NCI Quantitative Imaging Network. <i>Journal of Medical Imaging</i> , 2018 , 5, 011003	2.6	16
110	Toward uniform implementation of parametric map Digital Imaging and Communication in Medicine standard in multisite quantitative diffusion imaging studies. <i>Journal of Medical Imaging</i> , 2018 , 5, 011006	2.6	4
109	Distinguishing True Progression From Radionecrosis After Stereotactic Radiation Therapy for Brain Metastases With Machine Learning and Radiomics. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1236-1243	4	65
108	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1219-1235	4	17
107	Integrated radiomic framework for breast cancer and tumor biology using advanced machine learning and multiparametric MRI. <i>Npj Breast Cancer</i> , 2017 , 3, 43	7.8	84
106	Current whole-body MRI applications in the neurofibromatoses: NF1, NF2, and schwannomatosis. <i>Neurology</i> , 2016 , 87, S31-9	6.5	49
105	Demonstration of nonlinearity bias in the measurement of the apparent diffusion coefficient in multicenter trials. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1312-23	4.4	50
104	Radiomics: a new application from established techniques. <i>Expert Review of Precision Medicine and Drug Development</i> , 2016 , 1, 207-226	1.6	162
103	Efficacy and Biomarker Study of Bevacizumab for Hearing Loss Resulting From Neurofibromatosis Type 2-Associated Vestibular Schwannomas. <i>Journal of Clinical Oncology</i> , 2016 , 34, 1669-75	2.2	69
102	Genomic Analysis of Salmonella enterica Serovar Typhimurium Characterizes Strain Diversity for Recent U.S. Salmonellosis Cases and Identifies Mutations Linked to Loss of Fitness under Nitrosative and Oxidative Stress. <i>MBio</i> , 2016 , 7, e00154	7.8	15
101	Multiparametric Assessment of Treatment Response in High-Grade Soft-Tissue Sarcomas with Anatomic and Functional MR Imaging Sequences. <i>Radiology</i> , 2016 , 278, 831-40	20.5	43
100	QIN DAWG Validation of Gradient Nonlinearity Bias Correction Workflow for Quantitative Diffusion-Weighted Imaging in Multicenter Trials. <i>Tomography</i> , 2016 , 2, 396-405	3.1	10
99	A multidimensional data visualization and clustering method: Consensus similarity mapping 2016 ,		1
98	Multiparametric whole-body anatomic, functional, and metabolic imaging characteristics of peripheral lesions in patients with schwannomatosis. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 794-803	5.6	16
97	Pyomelanin-producing <i>Pseudomonas aeruginosa</i> selected during chronic infections have a large chromosomal deletion which confers resistance to pyocins. <i>Environmental Microbiology</i> , 2016 , 18, 3482-3493	5.3	30
96	Collagen fibers mediate MRI-detected water diffusion and anisotropy in breast cancers. <i>Neoplasia</i> , 2016 , 18, 585-593	6.4	20
95	Choline metabolism-based molecular diagnosis of cancer: an update. <i>Expert Review of Molecular Diagnostics</i> , 2015 , 15, 735-47	3.8	66
94	Multiparametric and Multimodality Functional Radiological Imaging for Breast Cancer Diagnosis and Early Treatment Response Assessment. <i>Journal of the National Cancer Institute Monographs</i> , 2015 , 2015, 40-6	4.8	10

93	Breast MRI for Diagnosis and Staging of Breast Cancer 2015 , 181-200		2
92	Whole-body magnetic resonance imaging evaluation of facioscapulohumeral muscular dystrophy. <i>Muscle and Nerve</i> , 2015 , 52, 512-20	3-4	43
91	Diffusion-weighted MR imaging for characterizing musculoskeletal lesions. <i>Radiographics</i> , 2014 , 34, 1163-7	3-4	98
90	Genomic analysis of the emergence of 20th century epidemic dysentery. <i>BMC Genomics</i> , 2014 , 15, 355	4-5	17
89	Letter to cancer center directors: Progress in quantitative imaging as a means to predict and/or measure tumor response in cancer therapy trials. <i>Journal of Clinical Oncology</i> , 2014 , 32, 2115-6	2-2	14
88	Unsupervised nonlinear dimensionality reduction machine learning methods applied to multiparametric MRI in cerebral ischemia: preliminary results 2014 ,		2
87	Comparative Genomic Analysis of Two Multidrug-Resistant Clinical Isolates of ST395 Epidemic Strain of <i>Pseudomonas aeruginosa</i> Obtained 12 Years Apart. <i>Genome Announcements</i> , 2014 , 2,		7
86	Insights into quantitative diffusion-weighted MRI for musculoskeletal tumor imaging. <i>American Journal of Roentgenology</i> , 2014 , 203, 560-72	5-4	55
85	The effects of applying breast compression in dynamic contrast material-enhanced MR imaging. <i>Radiology</i> , 2014 , 272, 79-90	20-5	11
84	Characterization of peripheral nerve sheath tumors with 3T proton MR spectroscopy. <i>American Journal of Neuroradiology</i> , 2014 , 35, 1035-41	4-4	26
83	Trainable high resolution melt curve machine learning classifier for large-scale reliable genotyping of sequence variants. <i>PLoS ONE</i> , 2014 , 9, e109094	3-7	29
82	Characterization of soft tissue masses: can quantitative diffusion weighted imaging reliably distinguish cysts from solid masses?. <i>Skeletal Radiology</i> , 2013 , 42, 1583-92	2-7	41
81	Polymyxin resistance of <i>Pseudomonas aeruginosa</i> phoQ mutants is dependent on additional two-component regulatory systems. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 2204-15	5-9	83
80	H ₂ -independent growth of the hydrogenotrophic methanogen <i>Methanococcus maripaludis</i> . <i>MBio</i> , 2013 , 4,	7-8	28
79	Rapid 16S rRNA next-generation sequencing of polymicrobial clinical samples for diagnosis of complex bacterial infections. <i>PLoS ONE</i> , 2013 , 8, e65226	3-7	144
78	Whole Body MRI at 3T with Quantitative Diffusion Weighted Imaging and Contrast-Enhanced Sequences for the Characterization of Peripheral Lesions in Patients with Neurofibromatosis Type 2 and Schwannomatosis. <i>ISRN Radiology</i> , 2013 , 2013, 627932		18
77	Postresurfacing periprosthetic femoral neck fractures: nonoperative treatment. <i>Orthopedics</i> , 2012 , 35, e732-6	1-5	3
76	Musculoskeletal tumors: how to use anatomic, functional, and metabolic MR techniques. <i>Radiology</i> , 2012 , 265, 340-56	20-5	144

75	Bactobolin resistance is conferred by mutations in the L2 ribosomal protein. <i>MBio</i> , 2012 , 3,	7.8	32
74	Proton MR spectroscopy in metabolic assessment of musculoskeletal lesions. <i>American Journal of Roentgenology</i> , 2012 , 198, 162-72	5.4	53
73	Strain-encoded breast MRI in phantom and ex vivo specimens with histological validation: preliminary results. <i>Medical Physics</i> , 2012 , 39, 7710-8	4.4	4
72	Comparative analysis of nonlinear dimensionality reduction techniques for breast MRI segmentation. <i>Medical Physics</i> , 2012 , 39, 2275-89	4.4	20
71	Evolution of Burkholderia pseudomallei in recurrent melioidosis. <i>PLoS ONE</i> , 2012 , 7, e36507	3.7	83
70	SU-E-I-24: Determining the Optimal B-Values to Use in Diffusion Weighted Imaging for Differentiating Benign and Malignant Breast Lesions. <i>Medical Physics</i> , 2012 , 39, 3630	4.4	
69	MR-guided high-intensity focused ultrasound treatment for symptomatic uterine leiomyomata: long-term outcomes. <i>Academic Radiology</i> , 2011 , 18, 970-6	4.3	82
68	Monitoring of neoadjuvant chemotherapy using multiparametric, ^{23}Na sodium MR, and multimodality (PET/CT/MRI) imaging in locally advanced breast cancer. <i>Breast Cancer Research and Treatment</i> , 2011 , 128, 119-26	4.4	56
67	Therapeutic response in musculoskeletal soft tissue sarcomas: evaluation by MRI. <i>NMR in Biomedicine</i> , 2011 , 24, 750-63	4.4	22
66	Advancements in MR imaging of the prostate: from diagnosis to interventions. <i>Radiographics</i> , 2011 , 31, 677-703	5.4	179
65	Improved hardware for higher spatial resolution strain-encoded (SENC) breast MRI for strain measurements. <i>Academic Radiology</i> , 2011 , 18, 705-15	4.3	5
64	Understanding cancer-induced cachexia: imaging the flame and its fuel. <i>Current Opinion in Supportive and Palliative Care</i> , 2011 , 5, 327-33	2.6	9
63	Principles and applications of diffusion-weighted imaging in cancer detection, staging, and treatment follow-up. <i>Radiographics</i> , 2011 , 31, 1773-91	5.4	195
62	3-T dynamic contrast-enhanced MRI of the breast: pharmacokinetic parameters versus conventional kinetic curve analysis. <i>American Journal of Roentgenology</i> , 2011 , 197, 1498-505	5.4	83
61	SU-E-I-134: Integration of Multiparametric and Multimodality Whole Body Radiological Imaging (MRI/PET/CT). <i>Medical Physics</i> , 2011 , 38, 3426-3427	4.4	1
60	Finding the optimal compression level for strain-encoded (SENC) breast MRI; simulations and phantom experiments. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 444-51	0.9	2
59	Quantification of muscle choline concentrations by proton MR spectroscopy at 3 T: technical feasibility. <i>American Journal of Roentgenology</i> , 2010 , 194, W73-9	5.4	38
58	A feasibility study of quantitative molecular characterization of musculoskeletal lesions by proton MR spectroscopy at 3 T. <i>American Journal of Roentgenology</i> , 2010 , 195, W69-75	5.4	38

57	Diffusion-weighted imaging improves the diagnostic accuracy of conventional 3.0-T breast MR imaging. <i>Radiology</i> , 2010 , 256, 64-73	20.5	226
56	Multiparametric magnetic resonance imaging, spectroscopy and multinuclear (^{23}Na) imaging monitoring of preoperative chemotherapy for locally advanced breast cancer. <i>Academic Radiology</i> , 2010 , 17, 1477-85	4.3	42
55	The role of parallel diffusion-weighted imaging and apparent diffusion coefficient (ADC) map values for evaluating breast lesions: preliminary results. <i>Academic Radiology</i> , 2010 , 17, 456-63	4.3	38
54	Magnetic resonance spectroscopy in metabolic and molecular imaging and diagnosis of cancer. <i>Chemical Reviews</i> , 2010 , 110, 3043-59	68.1	70
53	Comparison between diffusion-weighted imaging, T2-weighted, and postcontrast T1-weighted imaging after MR-guided, high intensity, focused ultrasound treatment of uterine leiomyomata: preliminary results. <i>Medical Physics</i> , 2010 , 37, 4768-76	4.4	11
52	Dynamic contrast-enhanced MRI of the breast: quantitative method for kinetic curve type assessment. <i>American Journal of Roentgenology</i> , 2009 , 193, W295-300	5.4	102
51	Whole-body diffusion-weighted and proton imaging: a review of this emerging technology for monitoring metastatic cancer. <i>Seminars in Roentgenology</i> , 2009 , 44, 111-22	0.8	21
50	Proton, diffusion-weighted imaging, and sodium (^{23}Na) MRI of uterine leiomyomata after MR-guided high-intensity focused ultrasound: a preliminary study. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 649-56	5.6	32
49	MRI-guided vacuum-assisted breast biopsy: a phantom and patient evaluation of targeting accuracy. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 424-9	5.6	17
48	Relationship of temporal resolution to diagnostic performance for dynamic contrast enhanced MRI of the breast. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 999-1004	5.6	110
47	Molecular and functional imaging of breast cancer. <i>NMR in Biomedicine</i> , 2009 , 22, 92-103	4.4	29
46	Multiparametric magnetic resonance imaging of breast cancer. <i>Journal of the American College of Radiology</i> , 2009 , 6, 523-6	3.5	9
45	Debonding of the acetabular porous coating in hip resurfacing arthroplasty. A report of two cases. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009 , 91, 961-4	5.6	6
44	Magnetic resonance imaging of the breast. <i>Seminars in Roentgenology</i> , 2008 , 43, 265-81	0.8	19
43	Large-insert genome analysis technology detects structural variation in <i>Pseudomonas aeruginosa</i> clinical strains from cystic fibrosis patients. <i>Genomics</i> , 2008 , 91, 530-7	4.3	22
42	Molecular and functional MRI of the tumor microenvironment. <i>Journal of Nuclear Medicine</i> , 2008 , 49, 687-90	8.9	14
41	Diffusion-weighted imaging with apparent diffusion coefficient mapping and spectroscopy in prostate cancer. <i>Topics in Magnetic Resonance Imaging</i> , 2008 , 19, 261-72	2.3	48
40	Percutaneous image-guided radiofrequency thermal ablation for large symptomatic uterine leiomyomata after uterine artery embolization: a feasibility and safety study. <i>Journal of Vascular and Interventional Radiology</i> , 2007 , 18, 41-8	2.4	18

39	Elevated tissue sodium concentration in malignant breast lesions detected with non-invasive ²³ Na MRI. <i>Breast Cancer Research and Treatment</i> , 2007 , 106, 151-60	4.4	137
38	AAPM/RSNA physics tutorials for residents: MR imaging: brief overview and emerging applications. <i>Radiographics</i> , 2007 , 27, 1213-29	5.4	61
37	Characterization of musculoskeletal lesions on 3-T proton MR spectroscopy. <i>American Journal of Roentgenology</i> , 2007 , 188, 1513-20	5.4	59
36	Musculoskeletal tumors: use of proton MR spectroscopic imaging for characterization. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 23-8	5.6	55
35	Patterns of enhancement on breast MR images: interpretation and imaging pitfalls. <i>Radiographics</i> , 2006 , 26, 1719-34; quiz 1719	5.4	137
34	Choline phospholipid metabolism in cancer: consequences for molecular pharmaceutical interventions. <i>Molecular Pharmaceutics</i> , 2006 , 3, 496-506	5.6	111
33	Choline metabolism in cancer: implications for diagnosis and therapy. <i>Expert Review of Molecular Diagnostics</i> , 2006 , 6, 821-9	3.8	148
32	Assessment of response of uterine fibroids and myometrium to embolization using diffusion-weighted echoplanar MR imaging. <i>Journal of Computer Assisted Tomography</i> , 2005 , 29, 83-6	2.2	42
31	Etiology of Perfusion-Diffusion Magnetic Resonance Imaging Mismatch Patterns. <i>Journal of Neuroimaging</i> , 2005 , 15, 254-260	2.8	12
30	Combined dynamic contrast enhanced breast MR and proton spectroscopic imaging: a feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 23-8	5.6	78
29	Fast method for brain image segmentation: application to proton magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1268-72	4.4	10
28	Uterine fibroids: diffusion-weighted MR imaging for monitoring therapy with focused ultrasound surgery--preliminary study. <i>Radiology</i> , 2005 , 236, 196-203	20.5	90
27	Etiology of perfusion-diffusion magnetic resonance imaging mismatch patterns 2005 , 15, 254-60		5
26	Re-examining the brain regions crucial for orchestrating speech articulation. <i>Brain</i> , 2004 , 127, 1479-87	11.2	344
25	Multiparametric and multinuclear magnetic resonance imaging of human breast cancer: current applications. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 543-50	2.7	36
24	Perfusion-weighted MRI as a marker of response to treatment in acute and subacute stroke. <i>Neuroradiology</i> , 2004 , 46, 31-9	3.2	55
23	Proton magnetic resonance spectroscopic imaging of human breast cancer: a preliminary study. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 19, 68-75	5.6	153
22	Multiparametric iterative self-organizing MR imaging data analysis technique for assessment of tissue viability in acute cerebral ischemia. <i>American Journal of Neuroradiology</i> , 2004 , 25, 1499-508	4.4	13

21	Assessment of transient ischemic attack with diffusion- and perfusion-weighted imaging. <i>American Journal of Neuroradiology</i> , 2004 , 25, 1645-52	4.4	61
20	Change in perfusion in acute nondominant hemisphere stroke may be better estimated by tests of hemispatial neglect than by the National Institutes of Health Stroke Scale. <i>Stroke</i> , 2003 , 34, 2392-6	6.7	70
19	Benign and malignant breast lesions: diagnosis with multiparametric MR imaging. <i>Radiology</i> , 2003 , 229, 225-32	20.5	69
18	MRI tissue characterization of experimental cerebral ischemia in rat. <i>Journal of Magnetic Resonance Imaging</i> , 2003 , 17, 398-409	5.6	31
17	Volume-preserving nonrigid registration of MR breast images using free-form deformation with an incompressibility constraint. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 730-41	11.7	306
16	An Alternating-Constraints Algorithm for Volume-Preserving Non-rigid Registration of Contrast-Enhanced MR Breast Images. <i>Lecture Notes in Computer Science</i> , 2003 , 291-300	0.9	3
15	Neural substrates of the cognitive processes underlying spelling: Evidence from MR diffusion and perfusion imaging. <i>Aphasiology</i> , 2002 , 16, 425-438	1.6	32
14	Multiparametric MRI ISODATA ischemic lesion analysis: correlation with the clinical neurological deficit and single-parameter MRI techniques. <i>Stroke</i> , 2002 , 33, 2839-44	6.7	38
13	Diffusion- and perfusion-weighted magnetic resonance imaging of the brain before and after coronary artery bypass grafting surgery. <i>Stroke</i> , 2002 , 33, 2909-15	6.7	148
12	Multiparametric MRI tissue characterization in clinical stroke with correlation to clinical outcome: part 2. <i>Stroke</i> , 2001 , 32, 950-7	6.7	81
11	Quantitative proton MR spectroscopic imaging of normal human cerebellum and brain stem. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 699-705	4.4	63
10	Hypoperfusion of Wernicke's area predicts severity of semantic deficit in acute stroke. <i>Annals of Neurology</i> , 2001 , 50, 561-6	9.4	179
9	A model for multiparametric mri tissue characterization in experimental cerebral ischemia with histological validation in rat: part 1. <i>Stroke</i> , 2001 , 32, 943-9	6.7	71
8	Quantitative proton MR spectroscopic imaging of normal human cerebellum and brain stem 2001 , 46, 699		2
7	Unsupervised segmentation of multiparameter MRI in experimental cerebral ischemia with comparison to T2, diffusion, and ADC MRI parameters and histopathological validation. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 425-37	5.6	78
6	Boundary-based warping of brain MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 12, 417-29	5.6	12
5	Registration and warping of magnetic resonance images to histological sections. <i>Medical Physics</i> , 1999 , 26, 1568-78	4.4	85
4	Identification of cerebral ischemic lesions in rat using Eigenimage filtered magnetic resonance imaging. <i>Brain Research</i> , 1999 , 837, 83-94	3.7	21

3	Prediction of impending hemorrhagic transformation in ischemic stroke using magnetic resonance imaging in rats. <i>Stroke</i> , 1998 , 29, 144-51	6.7	109
2	The temporal evolution of MRI tissue signatures after transient middle cerebral artery occlusion in rat. <i>Journal of the Neurological Sciences</i> , 1997 , 145, 15-23	3.2	87
1	A model to predict the histopathology of human stroke using diffusion and T2-weighted magnetic resonance imaging. <i>Stroke</i> , 1995 , 26, 1983-9	6.7	161