

# Timothy D Johnson

## List of Publications by Year in descending order

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116  
papers

9,008  
citations

50244

46  
h-index

42364

92  
g-index

119  
all docs

119  
docs citations

119  
times ranked

11168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computed tomographyâ€‘based biomarker provides unique signature for diagnosis of COPD phenotypes and disease progression. <i>Nature Medicine</i> , 2012, 18, 1711-1715.	15.2	619
2	Functional diffusion map: A noninvasive MRI biomarker for early stratification of clinical brain tumor response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5524-5529.	3.3	602
3	Vascular Targeted Nanoparticles for Imaging and Treatment of Brain Tumors. <i>Clinical Cancer Research</i> , 2006, 12, 6677-6686.	3.2	487
4	Near real-time intraoperative brain tumor diagnosis using stimulated Raman histology and deep neural networks. <i>Nature Medicine</i> , 2020, 26, 52-58.	15.2	413
5	Rapid intraoperative histology of unprocessed surgical specimens via fibre-laser-based stimulated Raman scattering microscopy. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	374
6	Off-Label Use of Drugs in Children. <i>Pediatrics</i> , 2014, 133, 563-567.	1.0	304
7	Metabolic and weight-loss effects of a long-term dietary intervention in obese patients. <i>American Journal of Clinical Nutrition</i> , 1999, 69, 198-204.	2.2	287
8	Evaluation of the functional diffusion map as an early biomarker of time-to-progression and overall survival in high-grade glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16759-16764.	3.3	270
9	Functional Diffusion Map As an Early Imaging Biomarker for High-Grade Glioma: Correlation With Conventional Radiologic Response and Overall Survival. <i>Journal of Clinical Oncology</i> , 2008, 26, 3387-3394.	0.8	264
10	Detection of human brain tumor infiltration with quantitative stimulated Raman scattering microscopy. <i>Science Translational Medicine</i> , 2015, 7, 309ra163.	5.8	249
11	Metabolic and Weight Loss Effects of Longâ€‘Term Dietary Intervention in Obese Patients: Fourâ€‘Year Results. <i>Obesity</i> , 2000, 8, 399-402.	4.0	243
12	Meta-Analysis of Functional Neuroimaging Studies of Emotion Perception and Experience in Schizophrenia. <i>Biological Psychiatry</i> , 2012, 71, 136-145.	0.7	240
13	A Bayesian Model of Category-Specific Emotional Brain Responses. <i>PLoS Computational Biology</i> , 2015, 11, e1004066.	1.5	212
14	Parametric Response Map As an Imaging Biomarker to Distinguish Progression From Pseudoprogression in High-Grade Glioma. <i>Journal of Clinical Oncology</i> , 2010, 28, 2293-2299.	0.8	202
15	The parametric response map is an imaging biomarker for early cancer treatment outcome. <i>Nature Medicine</i> , 2009, 15, 572-576.	15.2	187
16	Evaluation of cancer therapy using diffusion magnetic resonance imaging. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 581-7.	1.9	180
17	The Functional Diffusion Map: An Imaging Biomarker for the Early Prediction of Cancer Treatment Outcome. <i>Neoplasia</i> , 2006, 8, 259-267.	2.3	175
18	Multiâ€‘system repeatability and reproducibility of apparent diffusion coefficient measurement using an iceâ€‘water phantom. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 1238-1246.	1.9	165

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19	A Feasibility Study of Parametric Response Map Analysis of Diffusion-Weighted Magnetic Resonance Imaging Scans of Head and Neck Cancer Patients for Providing Early Detection of Therapeutic Efficacy. <i>Translational Oncology</i> , 2009, 2, 184-190.	1.7	146
20	Diffusion coefficient measurement using a temperature-controlled fluid for quality control in multicenter studies. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 983-987.	1.9	123
21	PePr: a peak-calling prioritization pipeline to identify consistent or differential peaks from replicated ChIP-Seq data. <i>Bioinformatics</i> , 2014, 30, 2568-2575.	1.8	114
22	MRI of Sonographically Indeterminate Adnexal Masses. <i>American Journal of Roentgenology</i> , 2006, 187, 732-740.	1.0	113
23	Müllerian Duct Anomalies: Comparison of MRI Diagnosis and Clinical Diagnosis. <i>American Journal of Roentgenology</i> , 2007, 189, 1294-1302.	1.0	106
24	Value of delayed hypointensity and delayed enhancing rim in magnetic resonance imaging diagnosis of small hepatocellular carcinoma in the cirrhotic liver. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 360-366.	1.9	102
25	A Feasibility Study Evaluating the Functional Diffusion Map as a Predictive Imaging Biomarker for Detection of Treatment Response in a Patient with Metastatic Prostate Cancer to the Bone. <i>Neoplasia</i> , 2007, 9, 1003-1011.	2.3	101
26	Clonus after human spinal cord injury cannot be attributed solely to recurrent muscle-tendon stretch. <i>Experimental Brain Research</i> , 2003, 149, 222-236.	0.7	88
27	T2-weighted MR Imaging in the Assessment of Cirrhotic Liver. <i>Radiology</i> , 2004, 230, 637-644.	3.6	88
28	Cytochrome P450 CYP3A4/5 Expression as a Biomarker of Outcome in Osteosarcoma. <i>Journal of Clinical Oncology</i> , 2003, 21, 2481-2485.	0.8	86
29	Detection of Aggressive Primary Prostate Cancer with <sup>11</sup> C-Choline PET/CT Using Multimodality Fusion Techniques. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1585-1593.	2.8	86
30	Parametric Response Mapping Monitors Temporal Changes on Lung CT Scans in the Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). <i>Academic Radiology</i> , 2015, 22, 186-194.	1.3	86
31	Prospective Analysis of Parametric Response Map-Derived MRI Biomarkers: Identification of Early and Distinct Glioma Response Patterns Not Predicted by Standard Radiographic Assessment. <i>Clinical Cancer Research</i> , 2011, 17, 4751-4760.	3.2	84
32	Advantages of Concurrent Biochemotherapy Modified by Decrescendo Interleukin-2, Granulocyte Colony-Stimulating Factor, and Tamoxifen for Patients With Metastatic Melanoma. <i>Journal of Clinical Oncology</i> , 1999, 17, 2752-2752.	0.8	83
33	Possible Biliary Disease: Diagnostic Performance of High-Spatial-Resolution Isotropic 3D T2-weighted MRCP. <i>Radiology</i> , 2008, 249, 883-890.	3.6	80
34	MRI for Preoperative Staging of Renal Cell Carcinoma Using the 1997 TNM Classification: Comparison with Surgical and Pathologic Staging. <i>American Journal of Roentgenology</i> , 2004, 182, 217-225.	1.0	77
35	Evaluation of Lung MDCT Nodule Annotation Across Radiologists and Methods. <i>Academic Radiology</i> , 2006, 13, 1254-1265.	1.3	76
36	Therapeutic Efficacy of DTI-015 using Diffusion Magnetic Resonance Imaging as an Early Surrogate Marker. <i>Clinical Cancer Research</i> , 2004, 10, 7852-7859.	3.2	75

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37	IgM Anti-Ganglioside Antibodies Induced by Melanoma Cell Vaccine Correlate with Survival of Melanoma Patients. <i>Journal of Investigative Dermatology</i> , 1999, 112, 205-209.	0.3	72
38	Introducing Parametric Fusion PET/MRI of Primary Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2012, 53, 546-551.	2.8	72
39	Development and Testing of Image-Processing Methods for the Quantitative Assessment of Airway Hyperresponsiveness from High-Resolution CT Images. <i>Journal of Computer Assisted Tomography</i> , 1997, 21, 939-947.	0.5	68
40	Immunologic effects of combined protease inhibitor and reverse transcriptase inhibitor therapy in previously treated chronic HIV-1 infection. <i>Aids</i> , 1998, 12, 1833-1844.	1.0	67
41	The development of performance-monitoring function in the posterior medial frontal cortex. <i>NeuroImage</i> , 2010, 49, 3463-3473.	2.1	64
42	Parametric Response Mapping as an Indicator of Bronchiolitis Obliterans Syndrome after Hematopoietic Stem Cell Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2014, 20, 1592-1598.	2.0	64
43	Electronic Prescribing in Pediatrics: Toward Safer and More Effective Medication Management. <i>Pediatrics</i> , 2013, 131, e1350-e1356.	1.0	59
44	Sodium and proton diffusion MRI as biomarkers for early therapeutic response in subcutaneous tumors. <i>Magnetic Resonance Imaging</i> , 2006, 24, 273-278.	1.0	56
45	Multi-Site Clinical Evaluation of DW-MRI as a Treatment Response Metric for Breast Cancer Patients Undergoing Neoadjuvant Chemotherapy. <i>PLoS ONE</i> , 2015, 10, e0122151.	1.1	55
46	Dynamic Imaging of Emerging Resistance during Cancer Therapy. <i>Cancer Research</i> , 2006, 66, 4687-4692.	0.4	54
47	Cluster mass inference via random field theory. <i>NeuroImage</i> , 2009, 44, 51-61.	2.1	48
48	Meta Analysis of Functional Neuroimaging Data via Bayesian Spatial Point Processes. <i>Journal of the American Statistical Association</i> , 2011, 106, 124-134.	1.8	48
49	Inhibition of Vascular Endothelial Growth Factor (VEGF)-A Causes a Paradoxical Increase in Tumor Blood Flow and Up-Regulation of VEGF-D. <i>Clinical Cancer Research</i> , 2006, 12, 1525-1532.	3.2	44
50	Recognition and Management of Iatrogenically Induced Opioid Dependence and Withdrawal in Children. <i>Pediatrics</i> , 2014, 133, 152-155.	1.0	44
51	<sup>18</sup> F-Choline PET/MRI: The Additional Value of PET for MRI-Guided Transrectal Prostate Biopsies. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1065-1070.	2.8	42
52	Metric Units and the Preferred Dosing of Orally Administered Liquid Medications. <i>Pediatrics</i> , 2017, 140, .	1.0	39
53	Using tissue texture surrounding calcification clusters to predict benign vs malignant outcomes. <i>Medical Physics</i> , 1996, 23, 549-555.	1.6	38
54	A Bayesian change-point analysis of electromyographic data: detecting muscle activation patterns and associated applications. <i>Biostatistics</i> , 2003, 4, 143-164.	0.9	38

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55	Intratumoral Spatial Distribution of Hypoxia and Angiogenesis Assessed by <sup>18</sup> F-FAZA and <sup>125</sup> I-Gluco-RGD Autoradiography. <i>Journal of Nuclear Medicine</i> , 2008, 49, 597-605.	2.8	38
56	Diffusion tensor MRI of the corpus callosum in amyotrophic lateral sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 641-647.	1.9	37
57	Modeling Inter-Subject Variability in fMRI Activation Location: A Bayesian Hierarchical Spatial Model. <i>Biometrics</i> , 2009, 65, 1041-1051.	0.8	36
58	The Relationship between Depressive Symptoms, Disease State, and Cognition in Amyotrophic Lateral Sclerosis. <i>Frontiers in Psychology</i> , 2012, 3, 542.	1.1	30
59	Comparison of motion correction techniques applied to functional near-infrared spectroscopy data from children. <i>Journal of Biomedical Optics</i> , 2015, 20, 126003.	1.4	30
60	Estimating the prevalence of missing experiments in a neuroimaging meta-analysis. <i>Research Synthesis Methods</i> , 2020, 11, 866-883.	4.2	28
61	Bayesian Deconvolution Analysis of Pulsatile Hormone Concentration Profiles. <i>Biometrics</i> , 2003, 59, 650-660.	0.8	27
62	Impact of Perfusion Map Analysis on Early Survival Prediction Accuracy in Glioma Patients. <i>Translational Oncology</i> , 2013, 6, 766-774.	1.7	27
63	DW-MRI as a Biomarker to Compare Therapeutic Outcomes in Radiotherapy Regimens Incorporating Temozolomide or Gemcitabine in Glioblastoma. <i>PLoS ONE</i> , 2012, 7, e35857.	1.1	27
64	DCE and DW-MRI monitoring of vascular disruption following VEGF-Trap treatment of a rat glioma model. <i>NMR in Biomedicine</i> , 2012, 25, 935-942.	1.6	25
65	Sonographic Evaluation of Early-Stage Breast Cancers That Undergo Neoadjuvant Chemotherapy. <i>Journal of Ultrasound in Medicine</i> , 2005, 24, 885-895.	0.8	24
66	A Bayesian hierarchical spatial point process model for multi-type neuroimaging meta-analysis. <i>Annals of Applied Statistics</i> , 2014, 8, 1800-1824.	0.5	24
67	Multicenter evaluation of parametric response mapping as an indicator of bronchiolitis obliterans syndrome after hematopoietic stem cell transplantation. <i>American Journal of Transplantation</i> , 2020, 20, 2198-2205.	2.6	24
68	Suspicious Breast Lesions: Assessment of 3D Doppler US Indexes for Classification in a Test Population and Fourfold Cross-Validation Scheme. <i>Radiology</i> , 2008, 249, 463-470.	3.6	23
69	Evaluation of Treatment-Associated Inflammatory Response on Diffusion-Weighted Magnetic Resonance Imaging and 2-[ <sup>18</sup> F]-Fluoro-2-Deoxy- <sup>18</sup> F-Fluoro-2-Deoxy-Glucose-Positron Emission Tomography Imaging Biomarkers. <i>Clinical Cancer Research</i> , 2010, 16, 1542-1552.	3.2	22
70	Neuroradiological features of the polymorphous low-grade neuroepithelial tumor of the young: five new cases with a systematic review of the literature. <i>Neuroradiology</i> , 2022, 64, 1255-1264.	1.1	22
71	Diffusion-Weighted MRI as a Biomarker of Tumor Radiation Treatment Response Heterogeneity: A Comparative Study of Whole-Volume Histogram Analysis versus Voxel-Based Functional Diffusion Map Analysis. <i>Translational Oncology</i> , 2013, 6, 554-561.	1.7	21
72	Analysis of multiple sclerosis lesions via spatially varying coefficients. <i>Annals of Applied Statistics</i> , 2014, 8, 1095-1118.	0.5	21

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73	Bayesian computation for Log-Gaussian Cox processes: a comparative analysis of methods. <i>Journal of Statistical Computation and Simulation</i> , 2017, 87, 2227-2252.	0.7	20
74	Development of a Multiparametric Voxel-Based Magnetic Resonance Imaging Biomarker for Early Cancer Therapeutic Response Assessment. <i>Tomography</i> , 2015, 1, 44-52.	0.8	18
75	A Bayesian non-parametric Potts model with application to pre-surgical fMRI data. <i>Statistical Methods in Medical Research</i> , 2013, 22, 364-381.	0.7	17
76	A comparison of algorithms for exact analysis of unordered 2 × K contingency tables. <i>Computational Statistics and Data Analysis</i> , 1996, 21, 419-429.	0.7	16
77	Effects of Tumor Burden on Reference Tissue Standardized Uptake for PET Imaging: Modification of PERCIST Criteria. <i>Radiology</i> , 2018, 287, 993-1002.	3.6	16
78	Spatial Bayesian Latent Factor Regression Modeling of Coordinate-based Meta-analysis Data. <i>Biometrics</i> , 2018, 74, 342-353.	0.8	15
79	Voxelwise distribution of acute ischemic stroke lesions in patients with newly diagnosed atrial fibrillation: Trigger of arrhythmia or only target of embolism?. <i>PLoS ONE</i> , 2017, 12, e0177474.	1.1	15
80	A Novel Kinase Inhibitor of FADD Phosphorylation Chemosensitizes through the Inhibition of NF- $\kappa$ B. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 1807-1817.	1.9	14
81	A Bayesian mixture model relating dose to critical organs and functional complication in 3D conformal radiation therapy. <i>Biostatistics</i> , 2005, 6, 615-632.	0.9	13
82	Parametric response mapping of CT images provides early detection of local bone loss in a rat model of osteoporosis. <i>Bone</i> , 2012, 51, 78-84.	1.4	13
83	Improved detection of air trapping on expiratory computed tomography using deep learning. <i>PLoS ONE</i> , 2021, 16, e0248902.	1.1	13
84	Corpus callosum area in amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2012, 13, 589-591.	2.3	12
85	Pre-surgical fMRI Data Analysis Using a Spatially Adaptive Conditionally Autoregressive Model. <i>Bayesian Analysis</i> , 2016, 11, 599-625.	1.6	11
86	Impact of Clinical History on Maximum PI-RADS Version 2 Score: A Six-Reader 120-Case Sham History Retrospective Evaluation. <i>Radiology</i> , 2018, 288, 158-163.	3.6	11
87	Pretreatment ADC Histogram Analysis as a Prognostic Imaging Biomarker for Patients with Recurrent Glioblastoma Treated with Bevacizumab: A Systematic Review and Meta-analysis. <i>American Journal of Neuroradiology</i> , 2022, 43, 202-206.	1.2	11
88	A Bayesian hierarchical approach to multirater correlated ROC analysis. <i>Statistics in Medicine</i> , 2006, 25, 1858-1871.	0.8	10
89	Analysis of Pulsatile Hormone Concentration Profiles with Nonconstant Basal Concentration: A Bayesian Approach. <i>Biometrics</i> , 2007, 63, 1207-1217.	0.8	10
90	Structural requirements for mitotane activity: development of analogs for treatment of adrenal cancer. <i>Anticancer Research</i> , 2012, 32, 2711-20.	0.5	10

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91	Detection of simulated lung nodules with computed radiography: Effects of nodule size, local optical density, global object thickness, and exposure. <i>Academic Radiology</i> , 1996, 3, 735-741.	1.3	9
92	A Bayesian Approach to Modeling Associations Between Pulsatile Hormones. <i>Biometrics</i> , 2009, 65, 650-659.	0.8	9
93	Integrated Multimodal Imaging of Dynamic Bone-Tumor Alterations Associated with Metastatic Prostate Cancer. <i>PLoS ONE</i> , 2015, 10, e0123877.	1.1	9
94	Effects of plasma glucose levels on regional cerebral 18F-fluorodeoxyglucose uptake: Implications for dementia evaluation with brain PET imaging. <i>Biomedicine and Pharmacotherapy</i> , 2019, 112, 108628.	2.5	9
95	Chest Radiograph Measurement Technique Facilitates Accurate Bedside Peripherally Inserted Central Catheter Placement in Children. <i>CardioVascular and Interventional Radiology</i> , 2018, 41, 443-448.	0.9	8
96	Lung T1 mapping magnetic resonance imaging in the assessment of pulmonary disease in children with cystic fibrosis: a pilot study. <i>Pediatric Radiology</i> , 2020, 50, 923-934.	1.1	8
97	Exposure-Focused CBT Outperforms Relaxation-Based Control in an RCT of Treatment for Child and Adolescent Anxiety. <i>Journal of Clinical Child and Adolescent Psychology</i> , 2022, 51, 410-418.	2.2	8
98	A space-time point process model for analyzing and predicting case patterns of diarrheal disease in northwestern Ecuador. <i>Spatial and Spatio-temporal Epidemiology</i> , 2014, 9, 23-35.	0.9	7
99	A spatial Bayesian latent factor model for image-to-image regression. <i>Biometrics</i> , 2022, 78, 72-84.	0.8	7
100	Quantitative magnetic resonance image analysis via the EM algorithm with stochastic variation. <i>Annals of Applied Statistics</i> , 2008, 2, 736-735.	0.5	6
101	Time series analysis of fMRI data: Spatial modelling and Bayesian computation. <i>Statistics in Medicine</i> , 2018, 37, 2753-2770.	0.8	6
102	Parametric Response Mapping of FLAIR MRI Provides an Early Indication of Progression Risk in Glioblastoma. <i>Academic Radiology</i> , 2021, 28, 1711-1720.	1.3	6
103	Computed radiography dual energy subtraction: Performance evaluation when detecting low-contrast lung nodules in an anthropomorphic phantom. <i>Journal of Digital Imaging</i> , 1999, 12, 29-33.	1.6	5
104	A Bayesian analysis of dual autoradiographic images. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 4570-4583.	0.7	4
105	Removal of T-Fasteners Immediately After Percutaneous Gastrostomy Tube Placement: Experience in 488 Patients. <i>American Journal of Roentgenology</i> , 2018, 211, 1144-1147.	1.0	4
106	Applying hierarchical bayesian modeling to experimental psychopathology data: An introduction and tutorial. <i>Journal of Abnormal Psychology</i> , 2021, 130, 923-936.	2.0	3
107	A mixed-effects, spatially varying coefficients model with application to multi-resolution functional magnetic resonance imaging data. <i>Statistical Methods in Medical Research</i> , 2019, 28, 1203-1215.	0.7	2
108	Aberrant activation of the mentalizing brain system during eye gaze discrimination in bipolar disorder. <i>Psychiatry Research - Neuroimaging</i> , 2021, 315, 111340.	0.9	2

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109	A Data-Driven Approach to Predicting 5-Aminolevulinic Acid-Induced Fluorescence and World Health Organization Grade in Newly Diagnosed Diffuse Gliomas. <i>Neurosurgery</i> , 2022, Publish Ahead of Print, .	0.6	2
110	Exact inference on stratified two-stage Markov chain models. <i>Computational Statistics and Data Analysis</i> , 1999, 31, 159-186.	0.7	1
111	Using Cox cluster processes to model latent pulse location patterns in hormone concentration data. <i>Biostatistics</i> , 2016, 17, 320-333.	0.9	1
112	Surgical Management of a Massive Occipital and Posterior Cervical Melanoma. <i>Laryngoscope</i> , 2011, 121, S154-S154.	1.1	0
113	Reply to: Neurobiology of Emotional Dysfunction in Schizophrenia: New Directions Revealed Through Meta-Analyses. <i>Biological Psychiatry</i> , 2012, 71, e25.	0.7	0
114	Parametric Response Mapping as a Diagnostic Indicator of Bronchiolitis Obliterans Syndrome. <i>Biology of Blood and Marrow Transplantation</i> , 2014, 20, S206-S207.	2.0	0
115	Diffusion tensor MRI of the corpus callosum in amyotrophic lateral sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, spcone-spcone.	1.9	0
116	P566. Elucidating Mechanisms of Social Cognitive Deficits Through fMRI and Bayesian Latent Variable Analysis. <i>Biological Psychiatry</i> , 2022, 91, S318.	0.7	0