Roger M Bourne

List of Publications by Year
in descending order

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66 papers	1,287 citations	331538 21 h-index	395590 33 g-index
67 all docs	67 docs citations	67 times ranked	1601 citing authors

#	Article	IF	Citations
1	Histological Validation of MRI: A Review of Challenges in Registration of Imaging and Wholeâ€Mount Histopathology. Journal of Magnetic Resonance Imaging, 2022, 55, 11-22.	1.9	15
2	Validation of Prostate Tissue Composition by Using Hybrid Multidimensional MRI: Correlation with Histologic Findings. Radiology, 2022, 302, 368-377.	3.6	14
3	Feasibility of Data-Driven, Model-Free Quantitative MRI Protocol Design: Application to Brain and Prostate Diffusion-Relaxation Imaging. Frontiers in Physics, 2021, 9, .	1.0	2
4	The Effect of Visual Hindsight Bias on Radiologist Perception. Academic Radiology, 2020, 27, 977-984.	1.3	10
5	Re: Metabolomic prostate cancer fields in HRMAS MRSâ€profiled histologically benign tissue vary with cancer status and distance from cancer. Dinges et al, NBM 2019. NMR in Biomedicine, 2019, 32, e4121.	1.6	2
6	VERDICT MRI validation in fresh and fixed prostate specimens using patientâ€specific moulds for histological and MR alignment. NMR in Biomedicine, 2019, 32, e4073.	1.6	22
7	Diagnosis of Prostate Cancer with Noninvasive Estimation of Prostate Tissue Composition by Using Hybrid Multidimensional MR Imaging: A Feasibility Study. Radiology, 2018, 287, 864-873.	3.6	83
8	Measurement and modeling of diffusion time dependence of apparent diffusion coefficient and fractional anisotropy in prostate tissue ex vivo. NMR in Biomedicine, 2017, 30, e3751.	1.6	8
9	Apparatus for Histological Validation of In Vivo and Ex Vivo Magnetic Resonance Imaging of the Human Prostate. Frontiers in Oncology, 2017, 7, 47.	1.3	27
10	Limitations and Prospects for Diffusion-Weighted MRI of the Prostate. Diagnostics, 2016, 6, 21.	1.3	32
11	Diffusion anisotropy in fresh and fixed prostate tissue ex vivo. Magnetic Resonance in Medicine, 2016, 76, 626-634.	1.9	18
12	Informationâ€based ranking of 10 compartment models of diffusionâ€weighted signal attenuation in fixed prostate tissue. NMR in Biomedicine, 2016, 29, 660-671.	1.6	12
13	Radiation dose differences between digital mammography and digital breast tomosynthesis are dependent on breast thickness. Proceedings of SPIE, 2016, , .	0.8	1
14	RELATIONSHIP BETWEEN RADIATION DOSE AND IMAGE QUALITY IN DIGITAL BREAST TOMOSYNTHESIS. Radiation Protection Dosimetry, 2016, 173, ncw005.	0.4	1
15	Validation of an Improved Patient-Specific Mold Design for Registration of In-vivo MRI and Histology of the Prostate. Lecture Notes in Computer Science, 2016, , 36-43.	1.0	6
16	Equivocal Breast Findings Are Reduced with Digital Tomosynthesis. Lecture Notes in Computer Science, 2016, , 89-97.	1.0	0
17	Microscopic diffusion properties of fixed breast tissue: Preliminary findings. Magnetic Resonance in Medicine, 2015, 74, 1733-1739.	1.9	4
18	Assessment of non-Gaussian diffusion with singly and doubly stretched biexponential models of diffusion-weighted MRI (DWI) signal attenuation in prostate tissue. NMR in Biomedicine, 2015, 28, 486-495.	1.6	18

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19	Effect of radiologistsâ€™ experience on breast cancer detection and localization using digital breast tomosynthesis. European Radiology, 2015, 25, 402-409.	2.3	25
20	The trouble with apparent diffusion coefficient papers. Journal of Medical Radiation Sciences, 2015, 62, 89-91.	0.8	7
21	The role of digital tomosynthesis in reducing the number of equivocal breast reportings. Proceedings of SPIE, 2015, , .	0.8	0
22	Changes in Epithelium, Stroma, and Lumen Space Correlate More Strongly with Gleason Pattern and Are Stronger Predictors of Prostate ADC Changes than Cellularity Metrics. Radiology, 2015, 277, 751-762.	3.6	138
23	Responsiveness of quantitative cartilage measures over one year in knee osteoarthritis: Comparison of radiography and MRI assessments. Journal of Magnetic Resonance Imaging, 2014, 39, 103-109.	1.9	12
24	Information theoretic ranking of four models of diffusion attenuation in fresh and fixed prostate tissue ex vivo. Magnetic Resonance in Medicine, 2014, 72, 1418-1426.	1.9	39
25	Efficacy of digital breast tomosynthesis for breast cancer diagnosis. Proceedings of SPIE, 2014, , .	0.8	2
26	Mammography: Radiologist and Image Characteristics That Determine the Accuracy of Breast Cancer Diagnosis. Lecture Notes in Computer Science, 2014, , 731-736.	1.0	0
27	Quantitative Measures Confirm theÂInverse Relationship between Lesion Spiculation and Detection ofÂBreast Masses. Academic Radiology, 2013, 20, 576-580.	1.3	20
28	An optimised patient-specific approach to administration of contrast agent for CT pulmonary angiography. European Radiology, 2013, 23, 3205-3212.	2.3	24
29	The Effect of JPEG2000 Compression on Detection of Skull Fractures. Academic Radiology, 2013, 20, 712-720.	1.3	7
30	Digital tomosynthesis: A new future for breast imaging?. Clinical Radiology, 2013, 68, e225-e236.	0.5	68
31	Use of 3T MRI and an unspoiled 3D fast gradient echo sequence for porcine knee cartilage volumetry: Preliminary findings. Journal of Magnetic Resonance Imaging, 2013, 38, 245-250.	1.9	2
32	<scp>MDCT</scp> angiography of the major congenital anomalies of the extracranial arteries: Pictorial review. Journal of Medical Imaging and Radiation Oncology, 2013, 57, 321-328.	0.9	5
33	A reduced contrast volume acquisition regimen based on cardiovascular dynamics improves visualisation of head and neck vasculature with carotid MDCT angiography. European Journal of Radiology, 2013, 82, e64-e69.	1.2	18
34	Markers of Good Performance in Mammography Depend on Number of Annual Readings. Radiology, 2013, 269, 61-67.	3.6	88
35	Magnetic resonance microscopy of prostate tissue: How basic science can inform clinical imaging development. Journal of Medical Radiation Sciences, 2013, 60, 5-10.	0.8	4
36	The impact of using a JAFROC or ROC approach on the conclusions of a typical observer performance study. , 2013, , .		3

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37	Cardiovascular CTA applications: patient-specific contrast formulae. , 2013, , .		1
38	Effect of formalin fixation on biexponential modeling of diffusion decay in prostate tissue. Magnetic Resonance in Medicine, 2013, 70, 1160-1166.	1.9	17
39	Caudocranial Scan Direction and Patient-Specific Injection Protocols Optimize ECGâ€“Gated and Nonâ€“Gated Thoracic CTA. Journal of Computer Assisted Tomography, 2013, 37, 725-731.	0.5	14
40	The effect of compression on confidence during the detection of skull fractures in CT. , 2012, , .		1
41	Microscopic diffusivity compartmentation in formalinâ€fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, 614-620.	1.9	34
42	Biexponential diffusion decay in formalinâ€fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 954-959.	1.9	21
43	Microscopic diffusion anisotropy in formalin fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 1943-1948.	1.9	23
44	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, spcone-spcone.	1.9	0
45	Contrast Medium Administration and Parameters Affecting Bolus Geometry in Multidetector Computed Tomography Angiography: An Overview. Journal of Medical Imaging and Radiation Sciences, 2011, 42, 113-117.	0.2	15
46	Measurement of breast lesion display luminance and overall image display luminance relative to optimum luminance for contrast perception. , 2011, , .		2
47	Measuring Lifting Forces in Rock Climbing: Effect of Hold Size and Fingertip Structure. Journal of Applied Biomechanics, 2011, 27, 40-46.	0.3	23
48	16 T Diffusion microimaging of fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2011, 66, 244-247.	1.9	37
49	Diagnostic value of 8.5â€‰T magnetic resonance spectroscopy of benign and malignant skin lesion biopsies. Melanoma Research, 2010, 20, 311-317.	0.6	7
50	Correlation of Histopathology with Magnetic Resonance Spectroscopy of Human Biopsies. , 2008, , 1027-1036.		2
51	Confirmation of Sentinel Lymph Node Identity by Analysis of Fine-Needle Biopsy Samples Using Inductively Coupled Plasmaâ€“Mass Spectrometry. Annals of Surgical Oncology, 2008, 15, 934-940.	0.7	8
52	Magnetic Resonance Spectroscopy Detects Biochemical Changes in the Brain Associated with Chronic Low Back Pain: A Preliminary Report. Anesthesia and Analgesia, 2006, 102, 1164-1168.	1.1	59
53	In Vivo Spectroscopy and Imaging of the Ovary In Vivo at 3 Tesla and Spectroscopy on Biopsy at 8.5 Tesla. Journal of Women's Imaging, 2005, 7, 71-76.	0.2	4
54	Melanoma Metastases in Regional Lymph Nodes Are Accurately Detected by Proton Magnetic Resonance Spectroscopy of Fine-Needle Aspirate Biopsy Samples. Annals of Surgical Oncology, 2005, 12, 943-949.	0.7	20

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55	In vivo and ex vivo proton MR spectroscopy of primary and secondary melanoma. European Journal of Radiology, 2005, 53, 506-513.	1.2	25
56	Determination of Grade and Receptor Status from the Primary Breast Lesion by Magnetic Resonance Spectroscopy. Technology in Cancer Research and Treatment, 2004, 3, 551-556.	0.8	36
57	Leakage of metabolites from tissue biopsies can result in large errors in quantitation by MRS. NMR in Biomedicine, 2003, 16, 96-101.	1.6	23
58	Detection of prostate cancer by magnetic resonance imaging and spectroscopy in vivo. ANZ Journal of Surgery, 2003, 73, 666-668.	0.3	8
59	Rapid detection of metastatic melanoma in lymph nodes using proton magnetic resonance spectroscopy of fine needle aspiration biopsy specimens. Melanoma Research, 2003, 13, 259-261.	0.6	27
60	Device for aeration and mixing of cell and organelle suspensions during NMR experiments. Journal of Magnetic Resonance, 2002, 159, 158-160.	1.2	0
61	Identification of Enterococcus, Streptococcus , and Staphylococcus by Multivariate Analysis of Proton Magnetic Resonance Spectroscopic Data from Plate Cultures. Journal of Clinical Microbiology, 2001, 39, 2916-2923.	1.8	39
62	Cloning and sequencing of four structural genes for the Na⁺â€translocating NADHâ€ubiquinone oxidoreductase of Vibrio alginolyticus. FEBS Letters, 1994, 356, 333-338.	1.3	55
63	Characterization of a sodiummotive NADH: ubiquinone oxidoreductase. Biochemical Society Transactions, 1992, 20, 577-582.	1.6	17
64	Net phosphate transport in phosphate-starved Candida utilis: relationships with pH and K+. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1067, 81-88.	1.4	10
65	A 31P-NMR study of phosphate transport and compartmentation in Candida utilis. Biochimica Et Biophysica Acta - Molecular Cell Research, 1990, 1055, 1-9.	1.9	12
66	A device for aeration and mixing of cell and organelle suspensions during nuclear magnetic resonance studies. Analytical Biochemistry, 1989, 182, 151-156.	1.1	7