Roger M Bourne

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8500170/publications.pdf

Version: 2024-02-01

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	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
2	Markers of Good Performance in Mammography Depend on Number of Annual Readings. Radiology, 2013, 269, 61-67.	3.6	88
3	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
4	Digital tomosynthesis: A new future for breast imaging?. Clinical Radiology, 2013, 68, e225-e236.	0.5	68
5	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
6	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
7	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
8	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
9	16 T Diffusion microimaging of fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2011, 66, 244-247.	1.9	37
10	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
11	Microscopic diffusivity compartmentation in formalinâ€fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, 614-620.	1.9	34
12	Limitations and Prospects for Diffusion-Weighted MRI of the Prostate. Diagnostics, 2016, 6, 21.	1.3	32
13	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
14	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
15	In vivo and ex vivo proton MR spectroscopy of primary and secondary melanoma. European Journal of Radiology, 2005, 53, 506-513.	1.2	25
16	Effect of radiologistsâ€™ experience on breast cancer detection and localization using digital breast tomosynthesis. European Radiology, 2015, 25, 402-409.	2.3	25
17	An optimised patient-specific approach to administration of contrast agent for CT pulmonary angiography. European Radiology, 2013, 23, 3205-3212.	2.3	24
18	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

#	Article	IF	Citations
19	Measuring Lifting Forces in Rock Climbing: Effect of Hold Size and Fingertip Structure. Journal of Applied Biomechanics, 2011, 27, 40-46.	0.3	23
20	Microscopic diffusion anisotropy in formalin fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 1943-1948.	1.9	23
21	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
22	Biexponential diffusion decay in formalinâ€fixed prostate tissue: Preliminary findings. Magnetic Resonance in Medicine, 2012, 68, 954-959.	1.9	21
23	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
24	Quantitative Measures Confirm theÂInverse Relationship between Lesion Spiculation and Detection ofÂBreast Masses. Academic Radiology, 2013, 20, 576-580.	1.3	20
25	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
26	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
27	Diffusion anisotropy in fresh and fixed prostate tissue ex vivo. Magnetic Resonance in Medicine, 2016, 76, 626-634.	1.9	18
28	Characterization of a sodiummotive NADH: ubiquinone oxidoreductase. Biochemical Society Transactions, 1992, 20, 577-582.	1.6	17
29	Effect of formalin fixation on biexponential modeling of diffusion decay in prostate tissue. Magnetic Resonance in Medicine, 2013, 70, 1160-1166.	1.9	17
30	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
31	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
32	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
33	Validation of Prostate Tissue Composition by Using Hybrid Multidimensional MRI: Correlation with Histologic Findings. Radiology, 2022, 302, 368-377.	3.6	14
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	The Effect of Visual Hindsight Bias on Radiologist Perception. Academic Radiology, 2020, 27, 977-984.	1.3	10
39	Detection of prostate cancer by magnetic resonance imaging and spectroscopy in vivo. ANZ Journal of Surgery, 2003, 73, 666-668.	0.3	8
40	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
41	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
42	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
43	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
44	The Effect of JPEG2000 Compression on Detection of Skull Fractures. Academic Radiology, 2013, 20, 712-720.	1.3	7
45	The trouble with apparent diffusion coefficient papers. Journal of Medical Radiation Sciences, 2015, 62, 89-91.	0.8	7
46	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
47	<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
48	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
49	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
50	Microscopic diffusion properties of fixed breast tissue: Preliminary findings. Magnetic Resonance in Medicine, 2015, 74, 1733-1739.	1.9	4
51	The impact of using a JAFROC or ROC approach on the conclusions of a typical observer performance study. , 2013, , .		3
52	Correlation of Histopathology with Magnetic Resonance Spectroscopy of Human Biopsies. , 2008, , 1027-1036.		2
53	Measurement of breast lesion display luminance and overall image display luminance relative to optimum luminance for contrast perception. , 2011, , .		2
54	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

#	Article	IF	Citations
55	Efficacy of digital breast tomosynthesis for breast cancer diagnosis. Proceedings of SPIE, 2014, , .	0.8	2
56	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
57	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
58	The effect of compression on confidence during the detection of skull fractures in CT. , 2012, , .		1
59	Cardiovascular CTA applications: patient-specific contrast formulae. , 2013, , .		1
60	Radiation dose differences between digital mammography and digital breast tomosynthesis are dependent on breast thickness. Proceedings of SPIE, 2016, , .	0.8	1
61	RELATIONSHIP BETWEEN RADIATION DOSE AND IMAGE QUALITY IN DIGITAL BREAST TOMOSYNTHESIS. Radiation Protection Dosimetry, 2016, 173, ncw005.	0.4	1
62	Device for aeration and mixing of cell and organelle suspensions during NMR experiments. Journal of Magnetic Resonance, 2002, 159, 158-160.	1.2	0
63	Microscopic diffusivity compartmentation in formalin-fixed prostate tissue. Magnetic Resonance in Medicine, 2012, 68, spcone-spcone.	1.9	0
64	The role of digital tomosynthesis in reducing the number of equivocal breast reportings. Proceedings of SPIE, 2015, , .	0.8	0
65	Mammography: Radiologist and Image Characteristics That Determine the Accuracy of Breast Cancer Diagnosis. Lecture Notes in Computer Science, 2014, , 731-736.	1.0	0
66	Equivocal Breast Findings Are Reduced with Digital Tomosynthesis. Lecture Notes in Computer Science, 2016, , 89-97.	1.0	0