List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1353739/publications.pdf Version: 2024-02-01



#	Article	lF	CITATIONS
1	Mitophagy defects arising from BNip3 loss promote mammary tumor progression to metastasis. EMBO Reports, 2015, 16, 1145-1163.	4.5	232
2	A new method for imaging perfusion and contrast extraction fraction: Input functions derived from reference tissues. Journal of Magnetic Resonance Imaging, 1998, 8, 1126-1134.	3.4	140
3	Benign Conditions That Mimic Prostate Carcinoma: MR Imaging Features with Histopathologic Correlation. Radiographics, 2016, 36, 162-175.	3.3	131
4	Intranasal Delivery of Mesenchymal Stem Cells Significantly Extends Survival of Irradiated Mice with Experimental Brain Tumors. Molecular Therapy, 2014, 22, 140-148.	8.2	105
5	Kinetic Analysis of Benign and Malignant Breast Lesions With Ultrafast Dynamic Contrast-Enhanced MRI: Comparison With Standard Kinetic Assessment. American Journal of Roentgenology, 2016, 207, 1159-1166.	2.2	98
6	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.	7.3	83
7	Ultrafast Bilateral DCE-MRI of the Breast with Conventional Fourier Sampling. Academic Radiology, 2016, 23, 1137-1144.	2.5	70
8	ENDOR-determined solvation structure of vanadyl(2+) in frozen solutions. Inorganic Chemistry, 1988, 27, 3360-3368.	4.0	60
9	Quantitative Analysis of Dynamic Contrast Enhanced MRI for Assessment of Bowel Inflammation in Crohn's Disease. Academic Radiology, 2009, 16, 1223-1230.	2.5	58
10	The vanadyl (VO2+) chelate bis(acetylacetonato)oxovanadium(IV) potentiates tyrosine phosphorylation of the insulin receptor. Journal of Biological Inorganic Chemistry, 2005, 10, 874-886.	2.6	51
11	Molecular geometry of vanadyl-adenine nucleotide complexes determined by EPR, ENDOR, and molecular modeling. Journal of the American Chemical Society, 1992, 114, 6219-6226.	13.7	49
12	Catalytic and structural role of the metal ion in dUTP pyrophosphatase. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5670-5675.	7.1	46
13	Comparison of T2-Weighted Imaging, DWI, and Dynamic Contrast-Enhanced MRI for Calculation of Prostate Cancer Index Lesion Volume: Correlation With Whole-Mount Pathology. American Journal of Roentgenology, 2019, 212, 351-356.	2.2	46
14	Spectroscopic imaging of the water resonance with short repetition time to study tumor response to hyperoxia. Magnetic Resonance in Medicine, 1997, 38, 27-32.	3.0	44
15	Quantitative analysis of vascular properties derived from ultrafast DCEâ€MRI to discriminate malignant and benign breast tumors. Magnetic Resonance in Medicine, 2019, 81, 2147-2160.	3.0	44
16	The Renin–Angiotensin System Mediates EGF Receptor–Vitamin D Receptor Cross-Talk in Colitis-Associated Colon Cancer. Clinical Cancer Research, 2014, 20, 5848-5859.	7.0	40
17	ADAM17 is a Tumor Promoter and Therapeutic Target in Western Diet–associated Colon Cancer. Clinical Cancer Research, 2017, 23, 549-561.	7.0	40
18	High-Frequency Electron Paramagnetic Resonance Studies of VO2+ in Low-Temperature Glasses. Journal of Physical Chemistry A. 1999, 103. 11279-11286.	2.5	36

#	Article	IF	CITATIONS
19	Rational Design, Synthesis, and Biological Evaluation of Progesterone-Modified MRI Contrast Agents. Chemistry and Biology, 2007, 14, 824-834.	6.0	35
20	Ultrafast Dynamic Contrast-Enhanced Breast MRI: Kinetic Curve Assessment Using Empirical Mathematical Model Validated with Histological Microvessel Density. Academic Radiology, 2019, 26, e141-e149.	2.5	31
21	Differentiating between T1 and T2* changes caused by gadopentetate dimeglumine in the kidney by using a double-echo dynamic MR imaging sequence. Journal of Magnetic Resonance Imaging, 1996, 6, 764-768.	3.4	30
22	Overexpression and Biosynthetic Deuterium Enrichment of TEM-1 Î <sup>2</sup> -Lactamase for Structural Characterization by Magnetic Resonance Methods. Protein Expression and Purification, 2000, 19, 235-245.	1.3	30
23	Revisiting quantitative multi-parametric MRI of benign prostatic hyperplasia and its differentiation from transition zone cancer. Abdominal Radiology, 2019, 44, 2233-2243.	2.1	30
24	Performance of T2 Maps in the Detection of Prostate Cancer. Academic Radiology, 2019, 26, 15-21.	2.5	29
25	Performance of Ultrafast DCE-MRI for Diagnosis of Prostate Cancer. Academic Radiology, 2018, 25, 349-358.	2.5	28
26	In vivo imaging of extraction fraction of low molecular weight mr contrast agents and perfusion rate in rodent tumors. Magnetic Resonance in Medicine, 1997, 38, 259-268.	3.0	27
27	New vanadium-based magnetic resonance imaging probes: clinical potential for early detection of cancer. Journal of Biological Inorganic Chemistry, 2009, 14, 1187-1197.	2.6	24
28	E.p.r. and spin echo study of bituminous coal radicals. Fuel, 1986, 65, 684-693.	6.4	23
29	Structure and conformation of spin-labeled amino acids in frozen solutions determined by electron nuclear double resonance. 1. Methyl N-(2,2,5,5-tetramethyl-1-oxypyrrolinyl-3-carbonyl)-L-alanate, a molecule with a single preferred conformation. Journal of the American Chemical Society, 1990, 112, 2558-2566.	13.7	23
30	B <sub>1</sub> and T <sub>1</sub> mapping of the breast with a reference tissue method. Magnetic Resonance in Medicine, 2016, 75, 1565-1573.	3.0	23
31	Value of breast MRI for patients with a biopsy showing atypical ductal hyperplasia (ADH). Journal of Magnetic Resonance Imaging, 2017, 46, 1738-1747.	3.4	23
32	Uptake of a superparamagnetic contrast agent imaged by MR with high spectral and spatial resolution. Magnetic Resonance in Medicine, 2000, 43, 633-639.	3.0	22
33	Differentiation of nonmetastatic and metastatic rodent prostate tumors with high spectral and spatial resolution MRI. Magnetic Resonance in Medicine, 2001, 45, 1046-1055.	3.0	22
34	Structure and Conformation of Bis(acetylacetonato)oxovanadium(IV) and Bis(maltolato)oxovanadium(IV) in Solution Determined by Electron Nuclear Double Resonance Spectroscopy. Inorganic Chemistry, 2005, 44, 5580-5590.	4.0	22
35	Structure and conformation of spin-labeled amino acids in frozen solutions determined by electron nuclear double resonance. 2. Methyl N-(2,2,5,5-tetramethyl-1-oxypyrrolinyl-3-carbonyl)-L-tryptophanate, a molecule with multiple conformations. Journal of the American Chemical Society, 1990, 112, 2566-2574.	13.7	20
36	Structure, Conformation, and Probable Mechanism of Hydrolysis of a Spin-Labeled Penicillin Revealed by Electron Nuclear Double Resonance Spectroscopy. Journal of the American Chemical Society, 1995, 117, 6739-6746.	13.7	20

#	Article	IF	CITATIONS
37	Use of a reference tissue and blood vessel to measure the arterial input function in DCEMRI. Magnetic Resonance in Medicine, 2010, 64, 1821-1826.	3.0	19
38	Arterial input functions (AIFs) measured directly from arteries with low and standard doses of contrast agent, and AIFs derived from reference tissues. Magnetic Resonance Imaging, 2016, 34, 197-203.	1.8	18
39	Characterization of calcium binding properties of lithostathine. Journal of Biological Inorganic Chemistry, 2003, 8, 341-347.	2.6	17
40	Cross-linked Heterogeneous Nanoparticles as Bifunctional Probe. Chemistry of Materials, 2012, 24, 2423-2425.	6.7	17
41	Conformational Changes in Spin-Labeled Cephalosporin and Penicillin upon Hydrolysis Revealed by Electron Nuclear Double Resonance Spectroscopy. Journal of the American Chemical Society, 1997, 119, 12619-12628.	13.7	16
42	Magnetic resonance imaging of the natural history of in situmammary neoplasia in transgenic mice: a pilot study. Breast Cancer Research, 2009, 11, R65.	5.0	16
43	Fast Temporal Resolution Dynamic Contrast-Enhanced MRI: Histogram Analysis Versus Visual Analysis for Differentiating Benign and Malignant Breast Lesions. American Journal of Roentgenology, 2018, 211, 933-939.	2.2	15
44	Multiparametric MRI Features and Pathologic Outcome of Wedge-Shaped Lesions in the Peripheral Zone on T2-Weighted Images of the Prostate. American Journal of Roentgenology, 2019, 212, 124-129.	2.2	15
45	Synthesis of conjugated polyene carbonyl derivatives of nitroxyl spin-labels and determination of the their molecular structure and conformation by electron nuclear double resonance. Journal of the American Chemical Society, 1993, 115, 3674-3682.	13.7	14
46	Residual analysis of the water resonance signal in breast lesions imaged with high spectral and spatial resolution (HiSS) MRI: A pilot study. Medical Physics, 2014, 41, 012303.	3.0	14
47	Diagnosis of Prostate Cancer by Use of MRI-Derived Quantitative Risk Maps: A Feasibility Study. American Journal of Roentgenology, 2019, 213, W66-W75.	2.2	14
48	Validation of Prostate Tissue Composition by Using Hybrid Multidimensional MRI: Correlation with Histologic Findings. Radiology, 2022, 302, 368-377.	7.3	14
49	3D high spectral and spatial resolution imaging of <i>ex vivo</i> mouse brain. Medical Physics, 2015, 42, 1463-1472.	3.0	13
50	MRI reveals increased tumorigenesis following high fat feeding in a mouse model of tripleâ€negative breast cancer. NMR in Biomedicine, 2017, 30, e3758.	2.8	13
51	Low-dose imaging technique (LITE) MRI: initial experience in breast imaging. British Journal of Radiology, 2019, 92, 20190302.	2.2	12
52	Assignment of Proton Endor Resonances of Nitroxyl Spin-Labels in Frozen Solution. Free Radical Research Communications, 1990, 10, 95-101.	1.8	11
53	Dynamic Contrast-Enhanced Magnetic Resonance Imaging as a Pharmacodynamic Biomarker for Pazopanib in Metastatic Renal Carcinoma. Clinical Genitourinary Cancer, 2017, 15, 207-212.	1.9	10
54	Monitoring Anti-Angiogenic Therapy in Colorectal Cancer Murine Model using Dynamic Contrast-Enhanced MRI — Comparing Pixel-by-Pixel with Region of Interest Analysis. Technology in Cancer Research and Treatment, 2013, 12, 71-78.	1.9	9

#	Article	IF	CITATIONS
55	Mammary cancer initiation and progression studied with magnetic resonance imaging. Breast Cancer Research, 2014, 16, 495.	5.0	9
56	MRI accurately identifies early murine mammary cancers and reliably differentiates between <i>in situ</i> and invasive cancer: correlation of MRI with histology. NMR in Biomedicine, 2015, 28, 1078-1086.	2.8	9
57	Breast density estimation from high spectral and spatial resolution MRI. Journal of Medical Imaging, 2016, 3, 044507.	1.5	9
58	Magnetic Resonance Imaging and Molecular Characterization of a Hormone-Mediated Murine Model of Prostate Enlargement and Bladder Outlet Obstruction. American Journal of Pathology, 2017, 187, 2378-2387.	3.8	9
59	High resolution 3D MRI of mouse mammary glands with intra-ductal injection of contrast media. Magnetic Resonance Imaging, 2015, 33, 161-165.	1.8	8
60	Fast bilateral breast coverage with high spectral and spatial resolution (HiSS) MRI at 3T. Journal of Magnetic Resonance Imaging, 2017, 46, 1341-1348.	3.4	8
61	Magnetic resonance spectroscopy detects differential lipid composition in mammary glands on low fat, high animal fat versus high fructose diets. PLoS ONE, 2018, 13, e0190929.	2.5	8
62	Dynamic fieldâ€ofâ€view imaging to increase temporal resolution in the early phase of contrast media uptake in breast <scp>DCE</scp> â€ <scp>MRI</scp> : A feasibility study. Medical Physics, 2018, 45, 1050-1058.	3.0	7
63	Can Pre-treatment Quantitative Multi-parametric MRI Predict the Outcome of Radiotherapy in Patients with Prostate Cancer?. Academic Radiology, 2022, 29, 977-985.	2.5	7
64	IV Administered Gadodiamide Enters the Lumen of the Prostatic Glands: X-Ray Fluorescence Microscopy Examination of a Mouse Model. American Journal of Roentgenology, 2015, 205, W313-W319.	2.2	6
65	The effects of variations in tissue microstructure from postmortem rat brain on the asymmetry of the water proton resonance. Magnetic Resonance in Medicine, 2019, 81, 79-89.	3.0	6
66	Discrimination of benign from malignant breast lesions in dense breasts with model-based analysis of regions-of-interest using directional diffusion-weighted images. BMC Medical Imaging, 2020, 20, 61.	2.7	6
67	Histological validation of prostate tissue composition measurement using hybrid multi-dimensional MRI: agreement with pathologists' measures. Abdominal Radiology, 2022, 47, 801-813.	2.1	6
68	Multiple rotamers of 3-(2,2,5,5-tetramethyl-1-oxypyrrolinyl)-2-propen-1-ol, a stereospecific substrate of liver alcohol dehydrogenase: determination of molecular structure and conformation by electron nuclear double resonance. Journal of the American Chemical Society, 1993, 115, 3683-3687.	13.7	5
69	T2* relaxation times of intraductal murine mammary cancer, invasive mammary cancer, and normal mammary gland. Medical Physics, 2012, 39, 1309-1313.	3.0	5
70	MRI of neonatal necrotizing enterocolitis in a rodent model. NMR in Biomedicine, 2014, 27, 272-279.	2.8	5
71	Can DCEMRI assess the effect of green tea on the angiogenic properties of rodent prostate tumors?. Physica Medica, 2010, 26, 111-116.	0.7	4
72	Using MRI to detect and differentiate calcium oxalate and calcium hydroxyapatite crystals in air-bubble-free phantom. Physica Medica, 2015, 31, 1075-1079.	0.7	4

#	Article	IF	CITATIONS
73	Preliminary assessment of dispersion versus absorption analysis of high spectral and spatial resolution magnetic resonance images in the diagnosis of breast cancer. Journal of Medical Imaging, 2015, 2, 024502.	1.5	4
74	MRI ductography of contrast agent distribution and leakage in normal mouse mammary ducts and ducts with in situ cancer. Magnetic Resonance Imaging, 2017, 40, 48-52.	1.8	4
75	Magnetic Resonance Angiography Shows Increased Arterial Blood Supply Associated with Murine Mammary Cancer. International Journal of Biomedical Imaging, 2019, 2019, 1-6.	3.9	4
76	Magnetic resonance angiography reveals increased arterial blood supply and tumorigenesis following high fat feeding in a mouse model of tripleâ€negative breast cancer. NMR in Biomedicine, 2020, 33, e4363.	2.8	4
77	Comparison of DCE-MRI of murine model cancers with a low dose and high dose of contrast agent. Physica Medica, 2021, 81, 31-39.	0.7	4
78	An in silico validation framework for quantitative DCE-MRI techniques based on a dynamic digital phantom. Medical Image Analysis, 2021, 73, 102186.	11.6	4
79	Correlation of In Vivo and Ex Vivo ADC and T2 of In Situ and Invasive Murine Mammary Cancers. PLoS ONE, 2015, 10, e0129212.	2.5	4
80	T2*-weighted MRI as a non-contrast-enhanced method for assessment of focal laser ablation zone extent in prostate cancer thermotherapy. European Radiology, 2021, 31, 325-332.	4.5	3
81	Signal intensity form of the Tofts model for quantitative analysis of prostate dynamic contrast enhanced MRI data. Physics in Medicine and Biology, 2021, 66, 025002.	3.0	3
82	High spectral and spatial resolution MRI of prostate cancer: a pilot study. Magnetic Resonance in Medicine, 2021, 86, 1505-1513.	3.0	3
83	Differences Between Ipsilateral and Contralateral Early Parenchymal Enhancement Kinetics Predict Response of Breast Cancer to Neoadjuvant Therapy. Academic Radiology, 2022, 29, 1469-1479.	2.5	3
84	Spectral characterization of tissues in high spectral and spatial resolution MR images: Implications for a classificationâ€based synthetic CT algorithm. Medical Physics, 2017, 44, 1865-1875.	3.0	2
85	Effect of Echo Times on Prostate Cancer Detection on T2-Weighted Images. Academic Radiology, 2020, 27, 1555-1563.	2.5	2
86	Sensitivity to myelin using modelâ€free analysis of the water resonance lineâ€shape in postmortem mouse brain. Magnetic Resonance in Medicine, 2021, 85, 667-677.	3.0	2
87	Effectiveness of Dynamic Contrast Enhanced MRI with a Split Dose of Gadoterate Meglumine for Detection of Prostate Cancer. Academic Radiology, 2022, 29, 796-803.	2.5	2
88	Enhancement-constrained acceleration: A robust reconstruction framework in breast DCE-MRI. PLoS ONE, 2021, 16, e0258621.	2.5	2
89	Use of Indicator Dilution Principle to Evaluate Accuracy of Arterial Input Function Measured With Low-Dose Ultrafast Prostate Dynamic Contrast-Enhanced MRI. Tomography, 2019, 5, 260-265.	1.8	1
90	Quantitative evaluation of internal marks made using MRgFUS as seen on MRI, CT, US, and digital color images – A pilot study. Physica Medica, 2014, 30, 941-946.	0.7	0

#	Article	IF	CITATIONS
91	Using Numerical Simulations and Experiments to Compare Different Pure Mathematical Models for Analyzing Dynamic Contrast Enhanced MRI Data. Current Medical Imaging, 2018, 14, 468-476.	0.8	0
92	Physically implausible signals as a quantitative quality assessment metric in prostate diffusion-weighted MR imaging. Abdominal Radiology, 2022, , .	2.1	0