

# Margarida Juliã - Sapã©

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

1,882  
citations

331538

21  
h-index

265120

42  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a decision support system for diagnosis and grading of brain tumours using in vivo magnetic resonance single voxel spectra. <i>NMR in Biomedicine</i> , 2006, 19, 411-434.	1.6	216
2	Gap Junction Uncoupler Heptanol Prevents Cell-to-Cell Progression of Hypercontracture and Limits Necrosis During Myocardial Reperfusion. <i>Circulation</i> , 1997, 96, 3579-3586.	1.6	172
3	Brain tumor classification by proton MR spectroscopy: comparison of diagnostic accuracy at short and long TE. <i>American Journal of Neuroradiology</i> , 2004, 25, 1696-704.	1.2	135
4	Comparison between neuroimaging classifications and histopathological diagnoses using an international multicenter brain tumor magnetic resonance imaging database. <i>Journal of Neurosurgery</i> , 2006, 105, 6-14.	0.9	126
5	Multiprojectâ€“multicenter evaluation of automatic brain tumor classification by magnetic resonance spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009, 22, 5-18.	1.1	126
6	Proton MR Spectroscopy Improves Discrimination between Tumor and Pseudotumoral Lesion in Solid Brain Masses. <i>American Journal of Neuroradiology</i> , 2009, 30, 544-551.	1.2	92
7	A Multi-Centre, Web-Accessible and Quality Control-Checked Database of in vivo MR Spectra of Brain Tumour Patients. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 22-33.	1.1	78
8	HealthAgents: distributed multi-agent brain tumor diagnosis andÂˆprognosis. <i>Applied Intelligence</i> , 2009, 30, 191-202.	3.3	78
9	On the relevance of automatically selected single-voxel MRS and multimodal MRI and MRSI features for brain tumour differentiation. <i>Computers in Biology and Medicine</i> , 2011, 41, 87-97.	3.9	60
10	Prospective diagnostic performance evaluation of singleâ€“voxel <sup>1</sup> H MRS for typing and grading of brain tumours. <i>NMR in Biomedicine</i> , 2012, 25, 661-673.	1.6	55
11	The effect of combining two echo times in automatic brain tumor classification by MRS. <i>NMR in Biomedicine</i> , 2008, 21, 1112-1125.	1.6	44
12	MRS quality assessment in a multicentre study on MRS-based classification of brain tumours. <i>NMR in Biomedicine</i> , 2008, 21, 148-158.	1.6	43
13	The INTERPRET Decision-Support System version 3.0 for evaluation of Magnetic Resonance Spectroscopy data from human brain tumours and other abnormal brain masses. <i>BMC Bioinformatics</i> , 2010, 11, 581.	1.2	43
14	Convex Non-Negative Matrix Factorization for Brain Tumor Delimitation from MRSI Data. <i>PLoS ONE</i> , 2012, 7, e47824.	1.1	39
15	Feature and model selection with discriminatory visualization for diagnostic classification of brain tumors. <i>Neurocomputing</i> , 2010, 73, 622-632.	3.5	38
16	Proton MR Spectroscopy Provides Relevant Prognostic Information in High-Grade Astrocytomas. <i>American Journal of Neuroradiology</i> , 2011, 32, 74-80.	1.2	33
17	SpectraClassifier 1.0: a user friendly, automated MRS-based classifier-development system. <i>BMC Bioinformatics</i> , 2010, 11, 106.	1.2	31
18	Non-negative matrix factorisation methods for the spectral decomposition of MRS data from human brain tumours. <i>BMC Bioinformatics</i> , 2012, 13, 38.	1.2	28

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19	Robust discrimination of glioblastomas from metastatic brain tumors on the basis of single-voxel <sup>1</sup> H MRS. <i>NMR in Biomedicine</i> , 2012, 25, 819-828.	1.6	27
20	Outlier exploration and diagnostic classification of a multi-centre 1H-MRS brain tumour database. <i>Neurocomputing</i> , 2009, 72, 3085-3097.	3.5	24
21	Metronomic treatment in immunocompetent preclinical GL261 glioblastoma: effects of cyclophosphamide and temozolomide. <i>NMR in Biomedicine</i> , 2017, 30, e3748.	1.6	23
22	Molecular imaging coupled to pattern recognition distinguishes response to temozolomide in preclinical glioblastoma. <i>NMR in Biomedicine</i> , 2014, 27, 1333-1345.	1.6	21
23	Pre-treatment with trimetazidine increases sarcolemmal mechanical resistance in reoxygenated myocytes. <i>Cardiovascular Research</i> , 1996, 32, 587-592.	1.8	20
24	Classification of brain tumours from MR spectra: the INTERPRET collaboration and its outcomes. <i>NMR in Biomedicine</i> , 2015, 28, 1772-1787.	1.6	19
25	MRSI-based molecular imaging of therapy response to temozolomide in preclinical glioblastoma using source analysis. <i>NMR in Biomedicine</i> , 2016, 29, 732-743.	1.6	19
26	Metabolomics of Therapy Response in Preclinical Glioblastoma: A Multi-Slice MRSI-Based Volumetric Analysis for Noninvasive Assessment of Temozolomide Treatment. <i>Metabolites</i> , 2017, 7, 20.	1.3	19
27	Compatibility between 3T 1H SV-MRS data and automatic brain tumour diagnosis support systems based on databases of 1.5T 1H SV-MRS spectra. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2011, 24, 35-42.	1.1	18
28	A Novel Semi-Supervised Methodology for Extracting Tumor Type-Specific MRS Sources in Human Brain Data. <i>PLoS ONE</i> , 2013, 8, e83773.	1.1	18
29	Quality of clinical brain tumor MR spectra judged by humans and machine learning tools. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2500-2510.	1.9	18
30	Strategies for annotation and curation of translational databases: the eTUMOUR project. <i>Database: the Journal of Biological Databases and Curation</i> , 2012, 2012, bas035-bas035.	1.4	17
31	Improving the classification of brain tumors in mice with perturbation enhanced (PE)-MRSI. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 183-191.	0.6	17
32	Cancer metabolism in a snapshot: MRS(I). <i>NMR in Biomedicine</i> , 2019, 32, e4054.	1.6	17
33	Non-invasive grading of astrocytic tumours from the relative contents of myo-inositol and glycine measured by in vivo mrs. <i>Journal of the Belgian Society of Radiology</i> , 2015, 94, 319.	0.2	17
34	Anti-tumour immune response in GL261 glioblastoma generated by Temozolomide Immune-Enhancing Metronomic Schedule monitored with MRSI-based nosological images. <i>NMR in Biomedicine</i> , 2020, 33, e4229.	1.6	15
35	Incremental Gaussian Discriminant Analysis based on Graybill and Deal weighted combination of estimators for brain tumour diagnosis. <i>Journal of Biomedical Informatics</i> , 2011, 44, 677-687.	2.5	14
36	Development of a Predictor for Human Brain Tumors Based on Gene Expression Values Obtained from Two Types of Microarray Technologies. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 157-164.	1.0	12

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37	Multicentre evaluation of the INTERPRET decision support system 2.0 for brain tumour classification. <i>NMR in Biomedicine</i> , 2014, 27, 1009-1018.	1.6	10
38	From raw data to data-analysis for magnetic resonance spectroscopy – the missing link: jMRUI2XML. <i>BMC Bioinformatics</i> , 2015, 16, 378.	1.2	9
39	Protective Effect of HOE642, a Selective Blocker of Na <sup>+</sup> -H <sup>+</sup> Exchange, Against the Development of Rigor Contracture in Rat Ventricular Myocytes. <i>Experimental Physiology</i> , 2000, 85, 17-25.	0.9	8
40	Development of robust discriminant equations for assessing subtypes of glioblastoma biopsies. <i>British Journal of Cancer</i> , 2012, 106, 1816-1825.	2.9	8
41	Unraveling response to temozolomide in preclinical GL261 glioblastoma with MRI/MRSI using radiomics and signal source extraction. <i>Scientific Reports</i> , 2020, 10, 19699.	1.6	7
42	Conceptual Graphs Based Information Retrieval in HealthAgents. <i>Proceedings of the IEEE Symposium on Computer-Based Medical Systems</i> , 2007, , .	0.0	6
43	Extraction of artefactual MRS patterns from a large database using non-negative matrix factorization. <i>NMR in Biomedicine</i> , 2022, 35, e4193.	1.6	6
44	Brain metabolic pattern analysis using a magnetic resonance spectra classification software in experimental stroke. <i>BMC Neuroscience</i> , 2017, 18, 13.	0.8	5
45	Rule-Based Assistance to Brain Tumour Diagnosis Using LR-FIR. <i>Lecture Notes in Computer Science</i> , 2008, , 173-180.	1.0	5
46	Exploratory Characterization of Outliers in a Multi-centre 1H-MRS Brain Tumour Dataset. <i>Lecture Notes in Computer Science</i> , 2008, , 189-196.	1.0	5
47	Spectral decomposition methods for the analysis of MRS information from human brain tumors. , 2011, , .		4
48	Automated Quality Control for Proton Magnetic Resonance Spectroscopy Data Using Convex Non-negative Matrix Factorization. <i>Lecture Notes in Computer Science</i> , 2016, , 719-727.	1.0	4
49	Classification, Dimensionality Reduction, and Maximally Discriminatory Visualization of a Multicentre 1H-MRS Database of Brain Tumors. , 2008, , .		3
50	In Vivo Magnetic Resonance Spectroscopic Imaging and Ex Vivo Quantitative Neuropathology by High Resolution Magic Angle Spinning Proton Magnetic Resonance Spectroscopy. <i>NeuroMethods</i> , 2012, , 329-365.	0.2	3
51	Embedding MRI information into MRSI data source extraction improves brain tumour delineation in animal models. <i>PLoS ONE</i> , 2019, 14, e0220809.	1.1	3
52	Genomics and Metabolomics Research for Brain Tumour Diagnosis Based on Machine Learning. <i>Lecture Notes in Computer Science</i> , 2007, , 1012-1019.	1.0	3
53	On the Implementation of HealthAgents: Agent-Based Brain Tumour Diagnosis. , 2007, , 5-24.		3
54	Semi-supervised source extraction methodology for the nosological imaging of glioblastoma response to therapy. , 2014, , .		2

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55	Robustness of Equations that Define Molecular Subtypes of Glioblastoma Tumors Based on Five Transcripts Measured by RT-PCR. OMICS A Journal of Integrative Biology, 2015, 19, 41-51.	1.0	2
56	Robust Conditional Independence maps of single-voxel Magnetic Resonance Spectra to elucidate associations between brain tumours and metabolites. PLoS ONE, 2020, 15, e0235057.	1.1	2
57	Ranking of Brain Tumour Classifiers Using a Bayesian Approach. Lecture Notes in Computer Science, 2009, , 1005-1012.	1.0	2
58	Pre-treatment with trimetazidine increases sarcolemmal mechanical resistance in reoxygenated myocytes. Cardiovascular Research, 1996, 32, 587-592.	1.8	2
59	MRS in clinical practice. Application to brain tumour MRS. , 2008, , .		1
60	Automatic relevance source determination in human brain tumors using Bayesian NMF. , 2014, , .		1
61	Diagnosis and Staging of Brain Tumours: Magnetic Resonance Single Voxel Spectra. , 2011, , 227-243.		1
62	LDL and Lp(a) oxidation: Protective role of HDL. Atherosclerosis, 1999, 144, 46.	0.4	0
63	Improving the classification of brain tumors in mice with perturbation enhanced (PE)-MRSI. BMC Proceedings, 2010, 4, .	1.8	0
64	Brain Tumor Pathological Area Delimitation through Non-negative Matrix Factorization. , 2011, , .		0
65	Usefulness of Proton Magnetic Resonance Spectroscopy in the Clinical Management of Brain Tumors. , 2014, , 141-161.		0
66	Interpreting response to TMZ therapy in murine GL261 glioblastoma by combining Radiomics, Convex-NMF and feature selection in MRI/MRSI data analysis. , 2020, , .		0