

Carles Arus

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

3,307
citations

31
h-index

52
g-index

131
ext. papers

3,637
ext. citations

4.3
avg, IF

4.51
L-index

#	Paper	IF	Citations
125	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, 411-34	4.4	178
124	Classification of brain tumours using short echo time 1H MR spectra. <i>Journal of Magnetic Resonance</i> , 2004 , 170, 164-75	3	149
123	Automated classification of short echo time in in vivo 1H brain tumor spectra: a multicenter study. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 29-36	4.4	145
122	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	4.4	128
121	Brain tumor classification based on long echo proton MRS signals. <i>Artificial Intelligence in Medicine</i> , 2004 , 31, 73-89	7.4	127
120	Proton magnetic resonance spectroscopy ((1)H MRS) of human brain tumours: assessment of differences between tumour types and its applicability in brain tumour categorization. <i>European Radiology</i> , 2003 , 13, 582-91	8	117
119	Multiproject-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	2.8	103
118	Towards a method for automated classification of 1H MRS spectra from brain tumours. <i>NMR in Biomedicine</i> , 1998 , 11, 177-91	4.4	98
117	Adult primitive neuroectodermal tumor: proton MR spectroscopic findings with possible application for differential diagnosis. <i>Radiology</i> , 2002 , 225, 556-66	20.5	90
116	Proton MR spectroscopy improves discrimination between tumor and pseudotumoral lesion in solid brain masses. <i>American Journal of Neuroradiology</i> , 2009 , 30, 544-51	4.4	71
115	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	2.8	69
114	HealthAgents: distributed multi-agent brain tumor diagnosis and prognosis. <i>Applied Intelligence</i> , 2009 , 30, 191-202	4.9	68
113	Magnetic resonance spectroscopy of brain hemangiopericytomas: high myoinositol concentrations and discrimination from meningiomas. <i>Journal of Neurosurgery</i> , 2001 , 94, 55-60	3.2	67
112	Pattern recognition analysis of 1H NMR spectra from perchloric acid extracts of human brain tumor biopsies. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 869-77	4.4	66
111	Taurine detection by proton magnetic resonance spectroscopy in medulloblastoma: contribution to noninvasive differential diagnosis with cerebellar astrocytoma. <i>Neurosurgery</i> , 2004 , 55, 824-9; discussion 829	3.2	63
110	Quantitative and qualitative characterization of 1H NMR spectra of colon tumors, normal mucosa and their perchloric acid extracts: decreased levels of myo-inositol in tumours can be detected in intact biopsies. <i>NMR in Biomedicine</i> , 1996 , 9, 33-45	4.4	60
109	1H NMR spectroscopy of colon tumors and normal mucosal biopsies; elevated taurine levels and reduced polyethyleneglycol absorption in tumors may have diagnostic significance. <i>NMR in Biomedicine</i> , 1993 , 6, 111-8	4.4	59

108	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	3.2	48
107	Prospective diagnostic performance evaluation of single-voxel 1H MRS for typing and grading of brain tumours. <i>NMR in Biomedicine</i> , 2012 , 25, 661-73	4.4	47
106	A possible cellular explanation for the NMR-visible mobile lipid (ML) changes in cultured C6 glioma cells with growth. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007 , 1771, 31-44	5	47
105	1H NMR of intact muscle at 11 T. <i>FEBS Letters</i> , 1984 , 165, 231-7	3.8	47
104	Diagnosis of brain abscess by magnetic resonance spectroscopy. Report of two cases. <i>Journal of Neurosurgery</i> , 1997 , 86, 708-13	3.2	45
103	The reaction of bovine pancreatic ribonuclease A with 6-chloropurineriboside 5Rmonophosphate. Evidence on the existence of a phosphate-binding sub-site. <i>FEBS Journal</i> , 1980 , 105, 571-9		42
102	Genetic programming for classification and feature selection: analysis of 1H nuclear magnetic resonance spectra from human brain tumour biopsies. <i>NMR in Biomedicine</i> , 1998 , 11, 217-24	4.4	40
101	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	3.6	37
100	The effect of combining two echo times in automatic brain tumor classification by MRS. <i>NMR in Biomedicine</i> , 2008 , 21, 1112-25	4.4	36
99	In vivo proton magnetic resonance spectroscopy of intraventricular tumours of the brain. <i>European Radiology</i> , 2009 , 19, 2049-59	8	35
98	Application of high-field 1H-NMR spectroscopy for the study of perfused amphibian and excised mammalian muscles. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986 , 886, 411-24	4.9	35
97	1H MRS markers of tumour growth in intrasplenic tumours and liver metastasis induced by injection of HT-29 cells in nude mice spleen. <i>NMR in Biomedicine</i> , 1998 , 11, 93-106	4.4	34
96	MRS quality assessment in a multicentre study on MRS-based classification of brain tumours. <i>NMR in Biomedicine</i> , 2008 , 21, 148-58	4.4	34
95	Dual T/ T Nanoscale Coordination Polymers as Novel Contrast Agents for MRI: A Preclinical Study for Brain Tumor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38819-38832	9.5	33
94	Convex non-negative matrix factorization for brain tumor delimitation from MRSI data. <i>PLoS ONE</i> , 2012 , 7, e47824	3.7	30
93	Perturbation of mouse glioma MRS pattern by induced acute hyperglycemia. <i>NMR in Biomedicine</i> , 2008 , 21, 251-64	4.4	30
92	Feature and model selection with discriminatory visualization for diagnostic classification of brain tumors. <i>Neurocomputing</i> , 2010 , 73, 622-632	5.4	29
91	1H-MRSI pattern perturbation in a mouse glioma: the effects of acute hyperglycemia and moderate hypothermia. <i>NMR in Biomedicine</i> , 2010 , 23, 23-33	4.4	28

90	Automated quality control protocol for MR spectra of brain tumors. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1274-81	4.4	28
89	Chemical and computer graphics studies on the topography of the ribonuclease A active site cleft. A model of the enzyme-pentanucleotide substrate complex. <i>Protein Engineering, Design and Selection</i> , 1989 , 2, 417-29	1.9	28
88	¹ H-NMR studies on the binding subsites of bovine pancreatic ribonuclease A. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981 , 660, 117-27	3.8	28
87	Proton MR spectroscopy provides relevant prognostic information in high-grade astrocytomas. <i>American Journal of Neuroradiology</i> , 2011 , 32, 74-80	4.4	27
86	Evidence on the existence of a purine ligand induced conformational change in the active site of bovine pancreatic ribonuclease A studied by proton nuclear magnetic resonance spectroscopy. <i>Biochemistry</i> , 1982 , 21, 4290-7	3.2	26
85	DCE@urLAB: a dynamic contrast-enhanced MRI pharmacokinetic analysis tool for preclinical data. <i>BMC Bioinformatics</i> , 2013 , 14, 316	3.6	25
84	SpectraClassifier 1.0: a user friendly, automated MRS-based classifier-development system. <i>BMC Bioinformatics</i> , 2010 , 11, 106	3.6	24
83	In vitro characterization of an Fe(8) cluster as potential MRI contrast agent. <i>NMR in Biomedicine</i> , 2005 , 18, 300-7	4.4	24
82	Non-negative matrix factorisation methods for the spectral decomposition of MRS data from human brain tumours. <i>BMC Bioinformatics</i> , 2012 , 13, 38	3.6	23
81	Bagging linear sparse Bayesian learning models for variable selection in cancer diagnosis. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2007 , 11, 338-47		23
80	In vivo quantification of response to treatment in patients with multiple myeloma by ¹ H magnetic resonance spectroscopy of bone marrow. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007 , 20, 93-101	2.8	23
79	A study of imidazole-based nuclear magnetic resonance probes of cellular pH. <i>Analytical Biochemistry</i> , 1998 , 261, 64-72	3.1	22
78	Outlier exploration and diagnostic classification of a multi-centre ¹ H-MRS brain tumour database. <i>Neurocomputing</i> , 2009 , 72, 3085-3097	5.4	21
77	Robust discrimination of glioblastomas from metastatic brain tumors on the basis of single-voxel (¹ H) MRS. <i>NMR in Biomedicine</i> , 2012 , 25, 819-28	4.4	20
76	Targeting Protein Kinase CK2: Evaluating CX-4945 Potential for GL261 Glioblastoma Therapy in Immunocompetent Mice. <i>Pharmaceuticals</i> , 2017 , 10,	5.2	20
75	Efficient α -amino-proline-derived cell penetrating peptide-superparamagnetic iron oxide nanoparticle conjugates via aniline-catalyzed oxime chemistry as bimodal imaging nanoagents. <i>Chemical Communications</i> , 2012 , 48, 5322-4	5.8	20
74	Measurement by nuclear magnetic resonance diffusion of the dimensions of the mobile lipid compartment in C6 cells. <i>Cancer Research</i> , 2002 , 62, 5672-7	10.1	19
73	Preliminary characterization of an experimental breast cancer cells brain metastasis mouse model by MRI/MRS. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2008 , 21, 237-49	2.8	18

72	Mobile lipid production after confluence and pH stress in perfused C6 cells. <i>NMR in Biomedicine</i> , 2001 , 14, 33-40	4.4	18
71	Assignment of the 2.03 ppm resonance in in vivo 1H MRS of human brain tumour cystic fluid: contribution of macromolecules. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004 , 17, 36-46	2.8	17
70	Ex vivo assessment of polyol coated-iron oxide nanoparticles for MRI diagnosis applications: toxicological and MRI contrast enhancement effects. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	16
69	Assessment of a 1H high-resolution magic angle spinning NMR spectroscopy procedure for free sugars quantification in intact plant tissue. <i>Planta</i> , 2013 , 238, 397-413	4.7	16
68	Improving the classification of brain tumors in mice with perturbation enhanced (PE)-MRSI. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 183-91	3.7	16
67	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	2.8	16
66	Molecular imaging coupled to pattern recognition distinguishes response to temozolomide in preclinical glioblastoma. <i>NMR in Biomedicine</i> , 2014 , 27, 1333-45	4.4	15
65	A novel semi-supervised methodology for extracting tumor type-specific MRS sources in human brain data. <i>PLoS ONE</i> , 2013 , 8, e83773	3.7	15
64	Strategies for annotation and curation of translational databases: the eTUMOUR project. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bas035	5	15
63	An iron-based T1 contrast agent made of iron-phosphate complexes: in vitro and in vivo studies. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2007 , 20, 27-37	2.8	15
62	Analysis of the changes in the 1H NMR spectral pattern of perchloric acid extracts of C6 cells with growth. <i>NMR in Biomedicine</i> , 2006 , 19, 223-30	4.4	15
61	On the Design of a Web-Based Decision Support System for Brain Tumour Diagnosis Using Distributed Agents 2006 ,		15
60	Development and characterization of an ergometer to study the bioenergetics of the human quadriceps muscle by 31P NMR spectroscopy inside a standard MR scanner. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 575-81	4.4	15
59	Quality of clinical brain tumor MR spectra judged by humans and machine learning tools. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2500-2510	4.4	14
58	A new ex vivo method to evaluate the performance of candidate MRI contrast agents: a proof-of-concept study. <i>Journal of Nanobiotechnology</i> , 2014 , 12, 12	9.4	14
57	In vivo and ex vivo magnetic resonance spectroscopy of the infarct and the subventricular zone in experimental stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 828-34	7.3	14
56	Metronomic treatment in immunocompetent preclinical GL261 glioblastoma: effects of cyclophosphamide and temozolomide. <i>NMR in Biomedicine</i> , 2017 , 30, e3748	4.4	13
55	Classification of brain tumours from MR spectra: the INTERPRET collaboration and its outcomes. <i>NMR in Biomedicine</i> , 2015 , 28, 1772-87	4.4	13

54	Automated brain tumor biopsy prediction using single-labeling cDNA microarrays-based gene expression profiling. <i>Diagnostic Molecular Pathology</i> , 2009 , 18, 206-18		13
53	Robust methodology for the discrimination of brain tumours from in vivo magnetic resonance spectra. <i>IET Science, Measurement and Technology</i> , 2000 , 147, 309-314		13
52	The separation of phosphocreatine from creatine, and pH determination in frog muscle by natural abundance ¹³ C-NMR. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1985 , 844, 91-3	4.9	13
51	Cancer metabolism in a snapshot: MRS(I). <i>NMR in Biomedicine</i> , 2019 , 32, e4054	4.4	12
50	MRSI-based molecular imaging of therapy response to temozolomide in preclinical glioblastoma using source analysis. <i>NMR in Biomedicine</i> , 2016 , 29, 732-43	4.4	11
49	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, 677-87	10.2	11
48	Quantification and classification of high-resolution magic angle spinning data for brain tumor diagnosis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5407-10		11
47	Two-dimensional spectra of intact tissue: homonuclear Hartmann-Hahn spectroscopy provides increased sensitivity and information content as compared to COSY. <i>Magnetic Resonance in Medicine</i> , 1990 , 15, 142-51	4.4	11
46	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,	5.6	10
45	(¹ H)-MRS is useful to reinforce the suspicion of primary central nervous system lymphoma prior to surgery. <i>European Radiology</i> , 2014 , 24, 2895-905	8	10
44	Multicentre evaluation of the INTERPRET decision support system 2.0 for brain tumour classification. <i>NMR in Biomedicine</i> , 2014 , 27, 1009-18	4.4	9
43	Minimization of spectral pattern changes during HRMAS experiments at 37 degrees celsius by prior focused microwave irradiation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012 , 25, 401-10	2.8	9
42	Short-term temperature effect on the HRMAS spectra of human brain tumor biopsies and their pattern recognition analysis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010 , 23, 203-15	2.8	9
41	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, 157-64	3.8	8
40	Dimethyl sulfoxide (DMSO) as a potential contrast agent for brain tumors. <i>NMR in Biomedicine</i> , 2013 , 26, 173-84	4.4	7
39	¹³ C-labelling studies indicate compartmentalized synthesis of triacylglycerols in C6 rat glioma cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 693-701	5	7
38	Development of robust discriminant equations for assessing subtypes of glioblastoma biopsies. <i>British Journal of Cancer</i> , 2012 , 106, 1816-25	8.7	7
37	Improving Ribosomal RNA Integrity in Surgically Resected Human Brain Tumor Biopsies. <i>Biopreservation and Biobanking</i> , 2016 , 14, 156-64	2.1	6

36	A simple approach to the design of a shielded gradient probe for high-resolution in vivo spectroscopy. <i>Journal of Magnetic Resonance Series B</i> , 1995 , 109, 146-52		6
35	Development of a transplantable glioma tumour model from genetically engineered mice: MRI/MRS/MRSI characterisation. <i>Journal of Neuro-Oncology</i> , 2016 , 129, 67-76	4.8	5
34	Protein Kinase CK2 Content in GL261 Mouse Glioblastoma. <i>Pathology and Oncology Research</i> , 2016 , 22, 633-7	2.6	5
33	Influence of the spinning rate in the HR-MAS pattern of mobile lipids in C6 glioma cells and in artificial oil bodies. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012 , 25, 487-96	2.8	5
32	N-acetylaspartate as an intrinsic thermometer for 1H NMR of brain slices. <i>Journal of Magnetic Resonance</i> , 1985 , 63, 376-379		5
31	Rule-Based Assistance to Brain Tumour Diagnosis Using LR-FIR. <i>Lecture Notes in Computer Science</i> , 2008 , 173-180	0.9	5
30	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	4.4	5
29	Anti-PD-1 Immunotherapy in Preclinical GL261 Glioblastoma: Influence of Therapeutic Parameters and Non-Invasive Response Biomarker Assessment with MRSI-Based Approaches. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
28	Magnetic resonance spectroscopy in posterior fossa tumours: the tumour spectroscopic signature may improve discrimination in adults among haemangioblastoma, ependymal tumours, medulloblastoma, and metastasis. <i>European Radiology</i> , 2019 , 29, 2792-2801	8	5
27	Characterization of the canine rostral ventricular-subventricular zone: Morphological, immunohistochemical, ultrastructural, and neurosphere assay studies. <i>Journal of Comparative Neurology</i> , 2018 , 526, 721-741	3.4	4
26	From raw data to data-analysis for magnetic resonance spectroscopy--the missing link: jMRUI2XML. <i>BMC Bioinformatics</i> , 2015 , 16, 378	3.6	4
25	1H NMR of intact tissues at 11.1 T. <i>Journal of Magnetic Resonance</i> , 1984 , 57, 519-525		4
24	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	0.9	4
23	Exploratory Characterization of Outliers in a Multi-centre 1H-MRS Brain Tumour Dataset. <i>Lecture Notes in Computer Science</i> , 2008 , 189-196	0.9	4
22	Pattern Recognition Analysis of MR Spectra 2016 , 945-958		4
21	Up-Regulation of the Alpha Prime Subunit of Protein Kinase CK2 as a Marker of Fast Proliferation in GL261 Cultured Cells. <i>Pathology and Oncology Research</i> , 2019 , 25, 1659-1663	2.6	4
20	Robustness of equations that define molecular subtypes of glioblastoma tumors based on five transcripts measured by RT-PCR. <i>OMICS A Journal of Integrative Biology</i> , 2015 , 19, 41-51	3.8	2
19	Brain metabolic pattern analysis using a magnetic resonance spectra classification software in experimental stroke. <i>BMC Neuroscience</i> , 2017 , 18, 13	3.2	2

18	r1andr2Relaxivities of Dendrons Based on a OEG-DTPA Architecture: Effect of Gd3+Placement and Dendron Functionalization. <i>Journal of Nanotechnology</i> , 2015 , 2015, 1-8	3.5	2
17	2014 ,		2
16	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	0.4	2
15	Spectral decomposition methods for the analysis of MRS information from human brain tumors 2011 ,		2
14	Classification, Dimensionality Reduction, and Maximally Discriminatory Visualization of a Multicentre 1H-MRS Database of Brain Tumors 2008 ,		2
13	A perfusion loop-gap resonator NMR probe for aerobic cell suspensions. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 563-6	4.4	2
12	Successful Partnerships: Exploring the Potential of Immunogenic Signals Triggered by TMZ, CX-4945, and Combined Treatment in GL261 Glioblastoma Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
11	Extraction of artefactual MRS patterns from a large database using non-negative matrix factorization. <i>NMR in Biomedicine</i> , 2019 , e4193	4.4	2
10	2014 ,		1
9	A versatile perfusion system for the NMR spectroscopy of bovine retina. Assignment of resonances and effect of ischemia. <i>Experimental Eye Research</i> , 1993 , 57, 669-78	3.7	1
8	Preparative purification and group separation of mono- and dinucleotides by combining charge-transfer and affinity chromatography. <i>Journal of Chromatography A</i> , 1982 , 237, 500-505	4.5	1
7	On the Implementation of HealthAgents: Agent-Based Brain Tumour Diagnosis 2007 , 5-24		1
6	Genomics and Metabolomics Research for Brain Tumour Diagnosis Based on Machine Learning. <i>Lecture Notes in Computer Science</i> , 2007 , 1012-1019	0.9	1
5	Diagnosis and Staging of Brain Tumours: Magnetic Resonance Single Voxel Spectra 2011 , 227-243		1
4	Unraveling response to temozolomide in preclinical GL261 glioblastoma with MRI/MRSI using radiomics and signal source extraction. <i>Scientific Reports</i> , 2020 , 10, 19699	4.9	1
3	Immune System-Related Changes in Preclinical GL261 Glioblastoma under TMZ Treatment: Explaining MRSI-Based Nosological Imaging Findings with RT-PCR Analyses. <i>Cancers</i> , 2021 , 13,	6.6	1
2	Effect of acute hyperglycemia on moderately hypothermic GL261 mouse glioma monitored by T1-weighted DCE MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015 , 28, 119-26	2.8	
1	Usefulness of Proton Magnetic Resonance Spectroscopy in the Clinical Management of Brain Tumors 2014 , 141-161		

