

# Ovidiu C Andronesi

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,802  
citations

201674

27  
h-index

189892

50  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Dâ€²â€²hydroxyglutarate MR spectroscopic imaging in mutant isocitrate dehydrogenase glioma patients with multiplexed RFâ€œreceive/B<sub>0</sub>â€œshim array coils at 3â€œT. NMR in Biomedicine, 2022, 352.8 e4621.		2
2	Myo-Inositol Levels Measured with MR Spectroscopy Can Help Predict Failure of Antiangiogenic Treatment in Recurrent Glioblastoma. Radiology, 2022, 302, 410-418.	7.3	13
3	In Vivo Absolute Metabolite Quantification Using a Multiplexed <sc>ERETICâ€œX</sc> Array Coil for Wholeâ€œBrain <sc>MR</sc> Spectroscopic Imaging. Journal of Magnetic Resonance Imaging, 2022, 56, 121-133.	3.4	2
4	Advanced magnetic resonance spectroscopic neuroimaging: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4309.	2.8	72
5	Atlasâ€œbased GABA mapping with 3D MEGAâ€œMRSI: Crossâ€œcorrelation to singleâ€œvoxel MRS. NMR in Biomedicine, 2021, 34, e4275.	2.8	4
6	Motion correction methods for MRS: experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4364.	2.8	37
7	Wholeâ€œSlab <sc>3D MR</sc> Spectroscopic Imaging of the Human Brain With Spiralâ€œOutâ€œIn Sampling at <sc>7T</sc>. Journal of Magnetic Resonance Imaging, 2021, 53, 1237-1250.	3.4	5
8	Spectral editing in <sup>1</sup>H magnetic resonance spectroscopy: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4411.	2.8	74
9	Advanced single voxel <sup>1</sup>H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4236.	2.8	98
10	MR spectroscopic imaging predicts early response to anti-angiogenic therapy in recurrent glioblastoma. Neuro-Oncology Advances, 2021, 3, vdab060.	0.7	5
11	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4484.	2.8	144
12	Consensus recommendations for MRI and PET imaging of primary central nervous system lymphoma: guideline statement from the International Primary CNS Lymphoma Collaborative Group (IPCG). Neuro-Oncology, 2021, 23, 1056-1071.	1.2	68
13	BIMG-22. DEEP LEARNING SUPER-RESOLUTION MR SPECTROSCOPIC IMAGING TO MAP TUMOR METABOLISM IN MUTANT IDH GLIOMA PATIENTS. Neuro-Oncology Advances, 2021, 3, i5-i6.	0.7	0
14	3D magnetic resonance spectroscopic imaging reveals links between brain metabolites and multidimensional pain features in fibromyalgia. European Journal of Pain, 2021, 25, 2050-2064.	2.8	4
15	Achieving high-resolution 1H-MRSI of the human brain with compressed-sensing and low-rank reconstruction at 7 Tesla. Journal of Magnetic Resonance, 2021, 331, 107048.	2.1	9
16	BIOM-09. MYO-INOSITOL LEVELS ON MR SPECTROSCOPY CAN PREDICT FAILURE OF ANTI-ANGIOGENIC TREATMENT IN RECURRENT GLIOBLASTOMA. Neuro-Oncology, 2021, 23, vi11-vi12.	1.2	0
17	TAMI-29. MR SPECTROSCOPY MEASURES OF LAC/NAA AND NAA/CHO DIFFERENTIATE SURVIVORSHIP IN PATIENTS WITH RECURRENT GLIOBLASTOMA TREATED WITH ANTI-ANGIOGENIC THERAPY. Neuro-Oncology, 2021, 23, vi204-vi204.	1.2	0
18	NIMG-16. DEEP LEARNING SUPER-RESOLUTION MR SPECTROSCOPIC IMAGING TO MAP TUMOR METABOLISM IN MUTANT IDH GLIOMA PATIENTS. Neuro-Oncology, 2021, 23, vi131-vi131.	1.2	0

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19	Super-Resolution Whole-Brain 3D MR Spectroscopic Imaging for Mapping D-2-Hydroxyglutarate and Tumor Metabolism in Isocitrate Dehydrogenase 1-mutated Human Gliomas. <i>Radiology</i> , 2020, 294, 589-597.	7.3	18
20	Imaging Neurochemistry and Brain Structure Tracks Clinical Decline and Mechanisms of ALS in Patients. <i>Frontiers in Neurology</i> , 2020, 11, 590573.	2.4	16
21	Spiral MRSI and tissue segmentation of normal-appearing white matter and white matter lesions in relapsing remitting multiple sclerosis patients. <i>Magnetic Resonance Imaging</i> , 2020, 74, 21-30.	1.8	7
22	An integrated RF-receive/B0-shim array coil boosts performance of whole-brain MR spectroscopic imaging at 7T. <i>Scientific Reports</i> , 2020, 10, 15029.	3.3	12
23	MRS for D-2HG Detection in IDH-Mutant Glioma. , 2020, , 173-189.		1
24	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	3.0	280
25	Whole-slice mapping of GABA and GABA+ at 7T via adiabatic MEGA-editing, real-time instability correction, and concentric circle readout. <i>NeuroImage</i> , 2019, 184, 475-489.	4.2	35
26	Pharmacodynamics of mutant-IDH1 inhibitors in glioma patients probed by in vivo 3D MRS imaging of 2-hydroxyglutarate. <i>Nature Communications</i> , 2018, 9, 1474.	12.8	106
27	Radiomics, Metabolic, and Molecular MRI for Brain Tumors. <i>Seminars in Neurology</i> , 2018, 38, 032-040.	1.4	19
28	Real-time Correction of Motion and Imager Instability Artifacts during 3D <sup>13</sup> Aminobutyric Acid-edited MR Spectroscopic Imaging. <i>Radiology</i> , 2018, 286, 666-675.	7.3	17
29	Pilot trial of inosine to elevate urate levels in amyotrophic lateral sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1522-1533.	3.7	31
30	ACRIN 6684: Multicenter, phase II assessment of tumor hypoxia in newly diagnosed glioblastoma using magnetic resonance spectroscopy. <i>PLoS ONE</i> , 2018, 13, e0198548.	2.5	21
31	Precision oncology in the era of radiogenomics: the case of D-2HG as an imaging biomarker for mutant IDH gliomas. <i>Neuro-Oncology</i> , 2018, 20, 865-867.	1.2	8
32	Three-dimensional MR spectroscopic imaging using adiabatic spin echo and hypergeometric dual-band suppression for metabolic mapping over the entire brain. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 490-497.	3.0	18
33	1D-spectral editing and 2D multispectral in vivo 1 H-MRS and 1 H-MRSI - Methods and applications. <i>Analytical Biochemistry</i> , 2017, 529, 48-64.	2.4	45
34	Isocitrate dehydrogenase-mutant glioma: Evolving clinical and therapeutic implications. <i>Cancer</i> , 2017, 123, 4535-4546.	4.1	103
35	Early changes in glioblastoma metabolism measured by MR spectroscopic imaging during combination of anti-angiogenic cediranib and chemoradiation therapy are associated with survival. <i>Npj Precision Oncology</i> , 2017, 1, .	5.4	16
36	Bone marrow drives central nervous system regeneration after radiation injury. <i>Journal of Clinical Investigation</i> , 2017, 128, 281-293.	8.2	36

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37	Characterizing glioma microenvironment with ultra-high gradient diffusion MRI. Journal of Clinical Oncology, 2017, 35, 2050-2050.	1.6	0
38	Volumetric relationship between 2-hydroxyglutarate and FLAIR hyperintensity has potential implications for radiotherapy planning of mutant IDH glioma patients. Neuro-Oncology, 2016, 18, now100.	1.2	30
39	Spatial variability and reproducibility of GABA-edited MEGA-LASER 3D-MRSI in the brain at 3T. NMR in Biomedicine, 2016, 29, 1656-1665.	2.8	36
40	Dynamic <sup>31</sup> P-MRSI using spiral spectroscopic imaging can map mitochondrial capacity in muscles of the human calf during plantar flexion exercise at 7T. NMR in Biomedicine, 2016, 29, 1825-1834.	2.8	38
41	In vivo brain rosette spectroscopic imaging (RSI) with LASER excitation, constant gradient strength readout, and automated LCModel quantification for all voxels. Magnetic Resonance in Medicine, 2016, 76, 380-390.	3.0	18
42	Treatment Response Assessment in IDH-Mutant Glioma Patients by Noninvasive 3D Functional Spectroscopic Mapping of 2-Hydroxyglutarate. Clinical Cancer Research, 2016, 22, 1632-1641.	7.0	127
43	3D GABA imaging with real-time motion correction, shim update and reacquisition of adiabatic spiral MRSI. NeuroImage, 2014, 103, 290-302.	4.2	100
44	Advanced Magnetic Resonance Imaging of the Physical Processes in Human Glioblastoma. Cancer Research, 2014, 74, 4622-4637.	0.9	123
45	Whole brain mapping of water pools and molecular dynamics with rotating frame MR relaxation using gradient modulated low-power adiabatic pulses. NeuroImage, 2014, 89, 92-109.	4.2	24
46	Real-time motion- and B0-correction for LASER-localized spiral-accelerated 3D-MRSI of the brain at 3T. NeuroImage, 2014, 88, 22-31.	4.2	64
47	Detection of oncogenic IDH1 mutations using magnetic resonance spectroscopy of 2-hydroxyglutarate. Journal of Clinical Investigation, 2013, 123, 3659-3663.	8.2	147
48	Neurologic 3D MR Spectroscopic Imaging with Low-Power Adiabatic Pulses and Fast Spiral Acquisition. Radiology, 2012, 262, 647-661.	7.3	63
49	Detection of 2-Hydroxyglutarate in IDH-Mutated Glioma Patients by In Vivo Spectral-Editing and 2D Correlation Magnetic Resonance Spectroscopy. Science Translational Medicine, 2012, 4, 116ra4.	12.4	367
50	Correlation chemical shift imaging with low-power adiabatic pulses and constant density spiral trajectories. NMR in Biomedicine, 2012, 25, 195-209.	2.8	34
51	Real-time motion and B0 correction for localized adiabatic selective refocusing (LASER) MRSI using echo planar imaging volumetric navigators. NMR in Biomedicine, 2012, 25, 347-358.	2.8	32
52	Real-time motion and B0 corrected single voxel spectroscopy using volumetric navigators. Magnetic Resonance in Medicine, 2011, 66, 314-323.	3.0	111
53	Spectroscopic imaging with improved gradient modulated constant adiabaticity pulses on high-field clinical scanners. Journal of Magnetic Resonance, 2010, 203, 283-293.	2.1	81
54	Combined off-resonance imaging and T2 relaxation in the rotating frame for positive contrast MR imaging of infection in a murine burn model. Journal of Magnetic Resonance Imaging, 2010, 32, 1172-1183.	3.4	11

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55	Low-power adiabatic sequences for in vivo localized two-dimensional chemical shift correlated MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1542-1556.	3.0	42
56	Solid-state NMR adiabatic TOBSY sequences provide enhanced sensitivity for multidimensional high-resolution magic-angle-spinning <sup>1</sup> H MR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2008, 193, 251-258.	2.1	26
57	Deep Learning Super-resolution MR Spectroscopic Imaging of Brain Metabolism and Mutant IDH Glioma. <i>Neuro-Oncology Advances</i> , 0, , .	0.7	2