

# Antonella Castellano

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,537  
citations

279798

23  
h-index

206112

48  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospective validation of a new imaging scorecard to assess leptomeningeal metastasis: A joint EORTC BTG and RANO effort. <i>Neuro-Oncology</i> , 2022, 24, 1726-1735.	1.2	18
2	Insights into Infusion-Based Targeted Drug Delivery in the Brain: Perspectives, Challenges and Opportunities. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3139.	4.1	14
3	Morphometric study of the ventricular indexes in healthy ovine BRAIN using MRI. <i>BMC Veterinary Research</i> , 2022, 18, 97.	1.9	0
4	Aftereffects to Prism Exposure without Adaptation: A Single Case Study. <i>Brain Sciences</i> , 2022, 12, 480.	2.3	2
5	Along-track statistics of neurite orientation dispersion and density imaging diffusion metrics to enhance MR tractography quantitative analysis in healthy controls and in patients with brain tumors. <i>Human Brain Mapping</i> , 2021, 42, 1268-1286.	3.6	12
6	Advancing Imaging to Enhance Surgery. <i>Neurosurgery Clinics of North America</i> , 2021, 32, 31-46.	1.7	7
7	Integrating Diffusion Tensor Imaging and Neurite Orientation Dispersion and Density Imaging to Improve the Predictive Capabilities of CED Models. <i>Annals of Biomedical Engineering</i> , 2021, 49, 689-702.	2.5	8
8	Hemorrhagic Suprasellar Central Nervous System Embryonal Tumor in an Adult: Uncommon Features of an Extremely Rare Neoplasm. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2021, , .	0.8	2
9	<sup>18</sup> F-FAZA PET/CT in pretreatment assessment of hypoxic status in high-grade glioma: correlation with hypoxia immunohistochemical biomarkers. <i>Nuclear Medicine Communications</i> , 2021, 42, 763-771.	1.1	6
10	Advanced Imaging Techniques for Radiotherapy Planning of Gliomas. <i>Cancers</i> , 2021, 13, 1063.	3.7	31
11	Development and in vivo assessment of a novel MRI-compatible headframe system for the ovine animal model. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2257.	2.3	3
12	Raman Spectroscopy and Machine Learning for IDH Genotyping of Unprocessed Glioma Biopsies. <i>Cancers</i> , 2021, 13, 4196.	3.7	23
13	Advancements in Neuroimaging to Unravel Biological and Molecular Features of Brain Tumors. <i>Cancers</i> , 2021, 13, 424.	3.7	21
14	mTORC1 promotes malignant large cell/anaplastic histology and is a targetable vulnerability in SHH-TP53 mutant medulloblastoma. <i>JCI Insight</i> , 2021, 6, .	5.0	3
15	Enhanced SPARCL1 expression in cancer stem cells improves preclinical modeling of glioblastoma by promoting both tumor infiltration and angiogenesis. <i>Neurobiology of Disease</i> , 2020, 134, 104705.	4.4	23
16	Clinical Management of Diffuse Low-Grade Gliomas. <i>Cancers</i> , 2020, 12, 3008.	3.7	44
17	GA3C Reinforcement Learning for Surgical Steerable Catheter Path Planning. , 2020, , .		13
18	Pathological brain CT scans in severe COVID-19 ICU patients. <i>Intensive Care Medicine</i> , 2020, 46, 2102-2104.	8.2	4

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19	Multifocal laminar cortical brain lesions: a consistent MRI finding in neuro-COVID-19 patients. <i>Journal of Neurology</i> , 2020, 267, 2806-2809.	3.6	35
20	Hypoxia and Amino Acid Imaging of High-Grade Glioma. <i>Clinical Nuclear Medicine</i> , 2020, 45, e290-e293.	1.3	1
21	fMRI-Targeted High-Angular Resolution Diffusion MR Tractography to Identify Functional Language Tracts in Healthy Controls and Glioma Patients. <i>Frontiers in Neuroscience</i> , 2020, 14, 225.	2.8	27
22	Italian consensus and recommendations on diagnosis and treatment of low-grade gliomas. An intersociety (SINch/AINO/SIN) document. <i>Journal of Neurosurgical Sciences</i> , 2020, 64, 313-334.	0.6	15
23	Automated Steerable Path Planning for Deep Brain Stimulation Safeguarding Fiber Tracts and Deep Gray Matter Nuclei. <i>Frontiers in Robotics and AI</i> , 2019, 6, 70.	3.2	19
24	Radiation and Chemotherapy Induced Injury. , 2019, , 1431-1458.		2
25	The Role of Surgery in Meningiomas. <i>Current Treatment Options in Neurology</i> , 2019, 21, 51.	1.8	13
26	In vivo Diffusion Tensor Magnetic Resonance Tractography of the Sheep Brain: An Atlas of the Ovine White Matter Fiber Bundles. <i>Frontiers in Veterinary Science</i> , 2019, 6, 345.	2.2	19
27	The RANO Leptomeningeal Metastasis Group proposal to assess response to treatment: lack of feasibility and clinical utility and a revised proposal. <i>Neuro-Oncology</i> , 2019, 21, 648-658.	1.2	90
28	Radiation and Chemotherapy Induced Injury. , 2019, , 1-29.		0
29	Lower Grade Gliomas: Relationships Between Metabolic and Structural Imaging with Grading and Molecular Factors. <i>World Neurosurgery</i> , 2019, 126, e270-e280.	1.3	10
30	Comparison of T1 mapping and fixed T1 method for dynamic contrast-enhanced MRI perfusion in brain gliomas. <i>European Radiology</i> , 2019, 29, 3467-3479.	4.5	22
31	Role of Functional Imaging Techniques to Assess Motor and Language Cortical Plasticity in Glioma Patients: A Systematic Review. <i>Neural Plasticity</i> , 2019, 2019, 1-16.	2.2	41
32	The proneural gene ASCL1 governs the transcriptional subgroup affiliation in glioblastoma stem cells by directly repressing the mesenchymal gene NDRG1. <i>Cell Death and Differentiation</i> , 2019, 26, 1813-1831.	11.2	41
33	Validation and revision of the RANO Leptomeningeal Metastasis Group scorecard for response assessment.. <i>Journal of Clinical Oncology</i> , 2019, 37, e13546-e13546.	1.6	0
34	Brain Gliomas: Multicenter Standardized Assessment of Dynamic Contrast-enhanced and Dynamic Susceptibility Contrast MR Images. <i>Radiology</i> , 2018, 287, 933-943.	7.3	70
35	Integration of Diffusion Magnetic Resonance Tractography into tomotherapy radiation treatment planning for high-grade gliomas. <i>Physica Medica</i> , 2018, 55, 127-134.	0.7	11
36	Broca's Area as a Pre-articulatory Phonetic Encoder: Gating the Motor Program. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 64.	2.0	18

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37	Reproducibility of dynamic contrast-enhanced MRI and dynamic susceptibility contrast MRI in the study of brain gliomas: a comparison of data obtained using different commercial software. <i>Radiologia Medica</i> , 2017, 122, 294-302.	7.7	23
38	3D intra-operative ultrasound and MR image guidance: pursuing an ultrasound-based management of brainshift to enhance neuronavigation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1711-1725.	2.8	31
39	Functional MRI for Surgery of Gliomas. <i>Current Treatment Options in Neurology</i> , 2017, 19, 34.	1.8	72
40	Resection of tumors of the third ventricle involving the hypothalamus: effects on body mass index using a dedicated surgical approach. <i>Endocrine</i> , 2017, 57, 138-147.	2.3	6
41	Neurite Orientation Dispersion and Density Imaging Color Maps to Characterize Brain Diffusion in Neurologic Disorders. <i>Journal of Neuroimaging</i> , 2016, 26, 494-498.	2.0	53
42	Progress in neuro-imaging of brain tumors. <i>Current Opinion in Oncology</i> , 2016, 28, 484-493.	2.4	30
43	Quantitative MRI of the spinal cord and brain in adrenomyeloneuropathy: <i>in vivo</i> assessment of structural changes. <i>Brain</i> , 2016, 139, 1735-1746.	7.6	44
44	Dynamic contrast-enhanced and dynamic susceptibility contrast perfusion MR imaging for glioma grading: Preliminary comparison of vessel compartment and permeability parameters using hotspot and histogram analysis. <i>European Journal of Radiology</i> , 2016, 85, 1147-1156.	2.6	76
45	T1-Weighted Dynamic Contrast-Enhanced MRI Is a Noninvasive Marker of Epidermal Growth Factor Receptor vIII Status in Cancer Stem Cell-Derived Experimental Glioblastomas. <i>American Journal of Neuroradiology</i> , 2016, 37, E49-E51.	2.4	6
46	Mirror Movements After Stroke Suggest Facilitation From Nonprimary Motor Cortex: A Case Presentation. <i>PM and R</i> , 2016, 8, 479-483.	1.6	3
47	Evaluation of low-grade glioma structural changes after chemotherapy using DTI-based histogram analysis and functional diffusion maps. <i>European Radiology</i> , 2016, 26, 1263-1273.	4.5	23
48	Association Between Thoracic Spinal Cord Gray Matter Atrophy and Disability in Multiple Sclerosis. <i>JAMA Neurology</i> , 2015, 72, 897.	9.0	78
49	Cerebral correlates of visuospatial neglect: A direct cerebral stimulation study. <i>Human Brain Mapping</i> , 2014, 35, 1334-1350.	3.6	89
50	PRE-OPERATIVE CHEMOTHERAPY AS A NEW STRATEGY OF TREATMENT FOR LOW GRADE GLIOMAS IN ELOQUENT AREAS. <i>Neuro-Oncology</i> , 2014, 16, iii45-iii45.	1.2	0
51	Tailoring neurophysiological strategies with clinical context enhances resection and safety and expands indications in gliomas involving motor pathways. <i>Neuro-Oncology</i> , 2014, 16, 1110-1128.	1.2	127
52	White Matter Integrity in Obstructive Sleep Apnea before and after Treatment. <i>Sleep</i> , 2014, 37, 1465-1475.	1.1	164
53	Preoperative chemotherapy as a new strategy of treatment for low-grade gliomas in eloquent areas: A phase II study. <i>Journal of Clinical Oncology</i> , 2014, 32, 2080-2080.	1.6	0
54	Role of diffusion tensor magnetic resonance tractography in predicting the extent of resection in glioma surgery. <i>Neuro-Oncology</i> , 2012, 14, 192-202.	1.2	124

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55	Preoperative Diffusion Tensor Imaging (DTI): contribution to surgical planning and validation by intraoperative electrostimulation. , 2011, , 263-275.		2
56	Connectivity constraints on cortical reorganization of neural circuits involved in object naming. NeuroImage, 2011, 55, 1306-1313.	4.2	59
57	A CAD system for cerebral glioma based on texture features in DT-MR images. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S100-S102.	1.6	10
58	What is the role of the uncinate fasciculus? Surgical removal and proper name retrieval. Brain, 2011, 134, 405-414.	7.6	246
59	Beautiful Eyes Guiding Powerful Hands - The Role of Intraoperative Imaging Techniques in the Surgical Management of Gliomas. European Neurological Review, 2011, 6, 208.	0.5	11
60	Preoperative Estimation of Extent of Resection of Gliomas by DTI FT. Neurosurgery, 2010, 67, 562.	1.1	0
61	Intraoperative use of diffusion tensor imaging fiber tractography and subcortical mapping for resection of gliomas: technical considerations. Neurosurgical Focus, 2010, 28, E6.	2.3	137
62	Automatic segmentation and therapy follow-up of cerebral glioma in diffusion-tensor images. , 2010, , .		0
63	Intraoperative mapping and monitoring of brain functions for the resection of low-grade gliomas: technical considerations. Neurosurgical Focus, 2009, 27, E4.	2.3	74
64	Motor and language DTI Fiber Tracking combined with intraoperative subcortical mapping for surgical removal of gliomas. NeuroImage, 2008, 39, 369-382.	4.2	372
65	MRDTI: a Semi-Automated Algorithm to Identify Damaged Brain Areas from Fractional Anisotropy Maps. , 2008, , .		0
66	Decoding the Heterogeneity of Malignant Gliomas by PET and MRI for Spatial Habitat Analysis of Hypoxia, Perfusion, and Diffusion Imaging: A Preliminary Study. Frontiers in Neuroscience, 0, 16, .	2.8	5