Antonella Castellano

List of Publications by Year
in descending order

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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	Motor and language DTI Fiber Tracking combined with intraoperative subcortical mapping for surgical removal of gliomas. NeuroImage, 2008, 39, 369-382.	4.2	372
2	What is the role of the uncinate fasciculus? Surgical removal and proper name retrieval. Brain, 2011, 134, 405-414.	7.6	246
3	White Matter Integrity in Obstructive Sleep Apnea before and after Treatment. Sleep, 2014, 37, 1465-1475.	1.1	164
4	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
5	Tailoring neurophysiological strategies with clinical context enhances resection and safety and expands indications in gliomas involving motor pathways. Neuro-Oncology, 2014, 16, 1110-1128.	1.2	127
6	Role of diffusion tensor magnetic resonance tractography in predicting the extent of resection in glioma surgery. Neuro-Oncology, 2012, 14, 192-202.	1.2	124
7	The RANO Leptomeningeal Metastasis Group proposal to assess response to treatment: lack of feasibility and clinical utility and a revised proposal. Neuro-Oncology, 2019, 21, 648-658.	1.2	90
8	Cerebral correlates of visuospatial neglect: A direct cerebral stimulation study. Human Brain Mapping, 2014, 35, 1334-1350.	3.6	89
9	Association Between Thoracic Spinal Cord Gray Matter Atrophy and Disability in Multiple Sclerosis. JAMA Neurology, 2015, 72, 897.	9.0	78
10	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. European Journal of Radiology, 2016, 85, 1147-1156.	2.6	76
11	Intraoperative mapping and monitoring of brain functions for the resection of low-grade gliomas: technical considerations. Neurosurgical Focus, 2009, 27, E4.	2.3	74
12	Functional MRI for Surgery of Gliomas. Current Treatment Options in Neurology, 2017, 19, 34.	1.8	72
13	Brain Gliomas: Multicenter Standardized Assessment of Dynamic Contrast-enhanced and Dynamic Susceptibility Contrast MR Images. Radiology, 2018, 287, 933-943.	7.3	70
14	Connectivity constraints on cortical reorganization of neural circuits involved in object naming. NeuroImage, 2011, 55, 1306-1313.	4.2	59
15	Neurite Orientation Dispersion and Density Imaging Color Maps to Characterize Brain Diffusion in Neurologic Disorders. Journal of Neuroimaging, 2016, 26, 494-498.	2.0	53
16	Quantitative MRI of the spinal cord and brain in adrenomyeloneuropathy:in vivoassessment of structural changes. Brain, 2016, 139, 1735-1746.	7.6	44
17	Clinical Management of Diffuse Low-Grade Gliomas. Cancers, 2020, 12, 3008.	3.7	44
18	Role of Functional Imaging Techniques to Assess Motor and Language Cortical Plasticity in Glioma Patients: A Systematic Review. Neural Plasticity, 2019, 2019, 1-16.	2.2	41

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19	The proneural gene ASCL1 governs the transcriptional subgroup affiliation in glioblastoma stem cells by directly repressing the mesenchymal gene NDRG1. Cell Death and Differentiation, 2019, 26, 1813-1831.	11.2	41
20	Multifocal laminar cortical brain lesions: a consistent MRI finding in neuro-COVID-19 patients. Journal of Neurology, 2020, 267, 2806-2809.	3.6	35
21	3D intra-operative ultrasound and MR image guidance: pursuing an ultrasound-based management of brainshift to enhance neuronavigation. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1711-1725.	2.8	31
22	Advanced Imaging Techniques for Radiotherapy Planning of Gliomas. Cancers, 2021, 13, 1063.	3.7	31
23	Progress in neuro-imaging of brain tumors. Current Opinion in Oncology, 2016, 28, 484-493.	2.4	30
24	fMRI-Targeted High-Angular Resolution Diffusion MR Tractography to Identify Functional Language Tracts in Healthy Controls and Glioma Patients. Frontiers in Neuroscience, 2020, 14, 225.	2.8	27
25	Evaluation of low-grade glioma structural changes after chemotherapy using DTI-based histogram analysis and functional diffusion maps. European Radiology, 2016, 26, 1263-1273.	4.5	23
26	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. Radiologia Medica, 2017, 122, 294-302.	7.7	23
27	Enhanced SPARCL1 expression in cancer stem cells improves preclinical modeling of glioblastoma by promoting both tumor infiltration and angiogenesis. Neurobiology of Disease, 2020, 134, 104705.	4.4	23
28	Raman Spectroscopy and Machine Learning for IDH Genotyping of Unprocessed Glioma Biopsies. Cancers, 2021, 13, 4196.	3.7	23
29	Comparison of T1 mapping and fixed T1 method for dynamic contrast-enhanced MRI perfusion in brain gliomas. European Radiology, 2019, 29, 3467-3479.	4.5	22
30	Advancements in Neuroimaging to Unravel Biological and Molecular Features of Brain Tumors. Cancers, 2021, 13, 424.	3.7	21
31	Automated Steerable Path Planning for Deep Brain Stimulation Safeguarding Fiber Tracts and Deep Gray Matter Nuclei. Frontiers in Robotics and AI, 2019, 6, 70.	3.2	19
32	In vivo Diffusion Tensor Magnetic Resonance Tractography of the Sheep Brain: An Atlas of the Ovine White Matter Fiber Bundles. Frontiers in Veterinary Science, 2019, 6, 345.	2.2	19
33	Brocaâ€™s Area as a Pre-articulatory Phonetic Encoder: Gating the Motor Program. Frontiers in Human Neuroscience, 2018, 12, 64.	2.0	18
34	Prospective validation of a new imaging scorecard to assess leptomeningeal metastasis: A joint EORTC BTG and RANO effort. Neuro-Oncology, 2022, 24, 1726-1735.	1.2	18
35	Italian consensus and recommendations on diagnosis and treatment of low-grade gliomas. An intersociety (SINch/AINO/SIN) document. Journal of Neurosurgical Sciences, 2020, 64, 313-334.	0.6	15
36	Insights into Infusion-Based Targeted Drug Delivery in the Brain: Perspectives, Challenges and Opportunities. International Journal of Molecular Sciences, 2022, 23, 3139.	4.1	14

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37	The Role of Surgery in Meningiomas. Current Treatment Options in Neurology, 2019, 21, 51.	1.8	13
38	GA3C Reinforcement Learning for Surgical Steerable Catheter Path Planning. , 2020, , .		13
39	Alongâ€tract 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. Human Brain Mapping, 2021, 42, 1268-1286.	3.6	12
40	Integration of Diffusion Magnetic Resonance Tractography into tomotherapy radiation treatment planning for high-grade gliomas. Physica Medica, 2018, 55, 127-134.	0.7	11
41	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
42	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
43	Lower Grade Gliomas: Relationships Between Metabolic and Structural Imaging with Grading and Molecular Factors. World Neurosurgery, 2019, 126, e270-e280.	1.3	10
44	Integrating Diffusion Tensor Imaging and Neurite Orientation Dispersion and Density Imaging to Improve the Predictive Capabilities of CED Models. Annals of Biomedical Engineering, 2021, 49, 689-702.	2.5	8
45	Advancing Imaging to Enhance Surgery. Neurosurgery Clinics of North America, 2021, 32, 31-46.	1.7	7
46	T1-Weighted Dynamic Contrast-Enhanced MRI Is a Noninvasive Marker of Epidermal Growth Factor Receptor vIII Status in Cancer Stem Cellâ€"Derived Experimental Glioblastomas. American Journal of Neuroradiology, 2016, 37, E49-E51.	2.4	6
47	Resection of tumors of the third ventricle involving the hypothalamus: effects on body mass index using a dedicated surgical approach. Endocrine, 2017, 57, 138-147.	2.3	6
48	18F-FAZA PET/CT in pretreatment assessment of hypoxic status in high-grade glioma: correlation with hypoxia immunohistochemical biomarkers. Nuclear Medicine Communications, 2021, 42, 763-771.	1.1	6
49	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
50	Pathological brain CT scans in severe COVID-19 ICU patients. Intensive Care Medicine, 2020, 46, 2102-2104.	8.2	4
51	Mirror Movements After Stroke Suggest Facilitation From Nonprimary Motor Cortex: A Case Presentation. PM and R, 2016, 8, 479-483.	1.6	3
52	Development and in vivo assessment of a novel MRIâ€compatible headframe system for the ovine animal model. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2257.	2.3	3
53	mTORC1 promotes malignant large cell/anaplastic histology and is a targetable vulnerability in SHH-TP53 mutant medulloblastoma. JCI Insight, 2021, 6, .	5.0	3
54	Preoperative Diffuson Tensor Imaging (DTI): contribution to surgical planning and validation by intraoperative electrostimulation. , 2011, , 263-275.		2

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55	Radiation and Chemotherapy Induced Injury. , 2019, , 1431-1458.		2
56	Hemorrhagic Suprasellar Central Nervous System Embryonal Tumor in an Adult: Uncommon Features of an Extremely Rare Neoplasm. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2021, , .	0.8	2
57	Aftereffects to Prism Exposure without Adaptation: A Single Case Study. Brain Sciences, 2022, 12, 480.	2.3	2
58	Hypoxia and Amino Acid Imaging of High-Grade Glioma. Clinical Nuclear Medicine, 2020, 45, e290-e293.	1.3	1
59	MRDTI: a Semi-Automated Algorithm to Identify Damaged Brain Areas from Fractional Anisotropy Maps. , 2008, , .		0
60	Preoperative Estimation of Extent of Resection of Gliomas by DTI FT. Neurosurgery, 2010, 67, 562.	1.1	0
61	Automatic segmentation and therapy follow-up of cerebral glioma in diffusion-tensor images. , 2010, , .		0
62	PRE-OPERATIVE CHEMOTHERAPY AS A NEW STRATEGY OF TREATMENT FOR LOW GRADE GLIOMAS IN ELOQUENT AREAS. Neuro-Oncology, 2014, 16, iii45-iii45.	1.2	0
63	Radiation and Chemotherapy Induced Injury. , 2019, , 1-29.		0
64	Preoperative chemotherapy as a new strategy of treatment for low-grade gliomas in eloquent areas: A phase II study.. Journal of Clinical Oncology, 2014, 32, 2080-2080.	1.6	0
65	Validation and revision of the RANO Leptomeningeal Metastasis Group scorecard for response assessment.. Journal of Clinical Oncology, 2019, 37, e13546-e13546.	1.6	0
66	Morphometric study of the ventricular indexes in healthy ovine BRAIN using MRI. BMC Veterinary Research, 2022, 18, 97.	1.9	0