

Antonio Di Ieva

List of Publications by Citations

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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.

134
papers

2,264
citations

26
h-index

40
g-index

145
ext. papers

2,704
ext. citations

3.2
avg, IF

5.21
L-index

#	Paper	IF	Citations
134	Aggressive pituitary adenomas--diagnosis and emerging treatments. <i>Nature Reviews Endocrinology</i> , 2014 , 10, 423-35	15.2	183
133	Fractals in the Neurosciences, Part I: General Principles and Basic Neurosciences. <i>Neuroscientist</i> , 2014 , 20, 403-417	7.6	101
132	Fractals in the neurosciences, Part II: clinical applications and future perspectives. <i>Neuroscientist</i> , 2015 , 21, 30-43	7.6	96
131	Strong 5-aminolevulinic acid-induced fluorescence is a novel intraoperative marker for representative tissue samples in stereotactic brain tumor biopsies. <i>Neurosurgical Review</i> , 2012 , 35, 381-91; discussion 391	3.9	68
130	Fractal dimension as a quantitor of the microvasculature of normal and adenomatous pituitary tissue. <i>Journal of Anatomy</i> , 2007 , 211, 673-80	2.9	64
129	Autophagy in the endocrine glands. <i>Journal of Molecular Endocrinology</i> , 2014 , 52, R151-63	4.5	59
128	Current Applications and Future Perspectives of the Use of 3D Printing in Anatomical Training and Neurosurgery. <i>Frontiers in Neuroanatomy</i> , 2016 , 10, 69	3.6	52
127	Invasive, atypical and aggressive pituitary adenomas and carcinomas. <i>Endocrinology and Metabolism Clinics of North America</i> , 2015 , 44, 99-104	5.5	50
126	Endoscopic versus microscopic approach for surgical treatment of acromegaly. <i>Neurosurgical Review</i> , 2015 , 38, 541-8; discussion 548-9	3.9	50
125	Arginine vasopressin (AVP): a review of its historical perspectives, current research and multifunctional role in the hypothalamo-hypophysial system. <i>Pituitary</i> , 2016 , 19, 345-55	4.3	47
124	Three-dimensional susceptibility-weighted imaging at 7 T using fractal-based quantitative analysis to grade gliomas. <i>Neuroradiology</i> , 2013 , 55, 35-40	3.2	45
123	Magnetic resonance elastography: a general overview of its current and future applications in brain imaging. <i>Neurosurgical Review</i> , 2010 , 33, 137-45; discussion 145	3.9	41
122	Liquor cotunnii: the history of cerebrospinal fluid in Domenico Cotugno's work. <i>Neurosurgery</i> , 2008 , 63, 352-8; discussion 358	3.2	41
121	Progress in the Diagnosis and Classification of Pituitary Adenomas. <i>Frontiers in Endocrinology</i> , 2015 , 6, 97	5.7	39
120	Cranial sutures: a multidisciplinary review. <i>Child's Nervous System</i> , 2013 , 29, 893-905	1.7	37
119	MicroRNAs as biomarkers in pituitary tumors. <i>Neurosurgery</i> , 2014 , 75, 181-9; discussion 188-9	3.2	33
118	Sperm protein 17 is expressed in human nervous system tumours. <i>BMC Cancer</i> , 2006 , 6, 23	4.8	33

117	Angioarchitectural heterogeneity in human glioblastoma multiforme: a fractal-based histopathological assessment. <i>Microvascular Research</i> , 2011 , 81, 222-30	3.7	32
116	Magnetic resonance susceptibility weighted imaging in neurosurgery: current applications and future perspectives. <i>Journal of Neurosurgery</i> , 2015 , 123, 1463-75	3.2	31
115	Fractal analysis of the susceptibility weighted imaging patterns in malignant brain tumors during antiangiogenic treatment: technical report on four cases serially imaged by 7 T magnetic resonance during a period of four weeks. <i>World Neurosurgery</i> , 2012 , 77, 785.e11-21	2.1	31
114	A journey into the technical evolution of neuroendoscopy. <i>World Neurosurgery</i> , 2014 , 82, e777-89	2.1	28
113	Isocitrate dehydrogenase (IDH) status prediction in histopathology images of gliomas using deep learning. <i>Scientific Reports</i> , 2020 , 10, 7733	4.9	27
112	Endoscopic approaches to the trigeminal nerve and clinical consideration for trigeminal schwannomas: a cadaveric study. <i>Journal of Neurosurgery</i> , 2012 , 117, 690-6	3.2	27
111	Euclidean and fractal geometry of microvascular networks in normal and neoplastic pituitary tissue. <i>Neurosurgical Review</i> , 2008 , 31, 271-81	3.9	26
110	The impact of body mass index and height on the risk for glioblastoma and other glioma subgroups: a large prospective cohort study. <i>Neuro-Oncology</i> , 2017 , 19, 976-985	1	26
109	Angioarchitectural morphometrics of brain tumors: are there any potential histopathological biomarkers?. <i>Microvascular Research</i> , 2010 , 80, 522-33	3.7	25
108	Autophagy in endocrine tumors. <i>Endocrine-Related Cancer</i> , 2015 , 22, R205-18	5.7	24
107	Crooke's cell tumors of the pituitary. <i>Neurosurgery</i> , 2015 , 76, 616-22	3.2	24
106	Fractal analysis of microvascular networks in malignant brain tumors 2012 , 31, 342-51		24
105	The veins of the nucleus dentatus: anatomical and radiological findings. <i>NeuroImage</i> , 2011 , 54, 74-9	7.9	23
104	Deep learning for automated cerebral aneurysm detection on computed tomography images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 715-723	3.9	22
103	Skull base embryology: a multidisciplinary review. <i>Child's Nervous System</i> , 2014 , 30, 991-1000	1.7	22
102	Microvascular morphometrics of the hypophysis and pituitary tumors: from bench to operating theatre. <i>Microvascular Research</i> , 2013 , 89, 7-14	3.7	22
101	Analysis of intracranial pressure: past, present, and future. <i>Neuroscientist</i> , 2013 , 19, 592-603	7.6	22
100	Correlation of microvascular fractal dimension with positron emission tomography [(11)C]-methionine uptake in glioblastoma multiforme: preliminary findings. <i>Microvascular Research</i> , 2010 , 80, 267-73	3.7	22

99	Berengario da Carpi: a pioneer in neurotraumatology. <i>Journal of Neurosurgery</i> , 2011 , 114, 1461-70	3.2	22
98	Diagnostic Value of Fractal Analysis for the Differentiation of Brain Tumors Using 3-Tesla Magnetic Resonance Susceptibility-Weighted Imaging. <i>Neurosurgery</i> , 2016 , 79, 839-846	3.2	21
97	Overweight, obesity and height as risk factors for meningioma, glioma, pituitary adenoma and nerve sheath tumor: a large population-based prospective cohort study. <i>Acta Oncologica</i> , 2017 , 56, 1302-1309	3.2	20
96	Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports</i> , 2019 , 9, 12228	4.9	20
95	Computational quantitative MR image features - a potential useful tool in differentiating glioblastoma from solitary brain metastasis. <i>European Journal of Radiology</i> , 2019 , 119, 108634	4.7	20
94	Endoscopic extradural subtemporal approach to lateral and central skull base: a cadaveric study. <i>World Neurosurgery</i> , 2013 , 80, 591-7	2.1	20
93	Microvascularization of Grade I meningiomas: effect on tumor volume, blood loss, and patient outcome. <i>Journal of Neurosurgery</i> , 2018 , 128, 657-666	3.2	19
92	A management algorithm for cerebrospinal fluid leak associated with anterior skull base fractures: detailed clinical and radiological follow-up. <i>Neurosurgical Review</i> , 2012 , 35, 227-37; discussion 237-8	3.9	19
91	Endoscopic telovelar approach to the fourth ventricle: anatomic study. <i>Neurosurgical Review</i> , 2012 , 35, 341-8; discussion 348-9	3.9	19
90	Vertebroplasty for pain relief and spinal stabilization in multiple myeloma. <i>Neurological Sciences</i> , 2010 , 31, 151-7	3.5	19
89	Antiangiogenic strategies in medulloblastoma: reality or mystery. <i>Pediatric Research</i> , 2008 , 63, 584-90	3.2	19
88	Radiomics in gliomas: clinical implications of computational modeling and fractal-based analysis. <i>Neuroradiology</i> , 2020 , 62, 771-790	3.2	18
87	The indusium griseum and the longitudinal striae of the corpus callosum. <i>Cortex</i> , 2015 , 62, 34-40	3.8	18
86	The First AO Classification System for Fractures of the Craniomaxillofacial Skeleton: Rationale, Methodological Background, Developmental Process, and Objectives. <i>Craniomaxillofacial Trauma & Reconstruction</i> , 2014 , 7, S006-14	1.3	18
85	Lancisi's nerves and the seat of the soul. <i>Neurosurgery</i> , 2007 , 60, 563-8; discussion 568	3.2	18
84	Computer-assisted and fractal-based morphometric assessment of microvascularity in histological specimens of gliomas. <i>Scientific Reports</i> , 2012 , 2, 429	4.9	17
83	Chordoid meningiomas: incidence and clinicopathological features of a case series over 18 years. <i>Neuropathology</i> , 2015 , 35, 137-47	2	15
82	The neuroanatomical plates of Guido da Vigevano. <i>Neurosurgical Focus</i> , 2007 , 23, 1-4	4.2	15

81	Calvarial metastases as clinical presentation of renal cell carcinoma: report of two cases and review of the literature. <i>Clinical Neurology and Neurosurgery</i> , 2005 , 107, 329-33	2	15
80	Current status on histological classification in Cushing's disease. <i>Pituitary</i> , 2015 , 18, 217-24	4.3	14
79	AI-augmented multidisciplinary teams: hype or hope?. <i>Lancet, The</i> , 2019 , 394, 1801	4.0	14
78	Practical guidelines for setting up an endoscopic/skull base cadaver laboratory. <i>World Neurosurgery</i> , 2013 , 79, S16.e1-7	2.1	14
77	Lumbar arachnoiditis and thecaloscopy: brief review and proposed treatment algorithm. <i>Central European Neurosurgery</i> , 2010 , 71, 207-12		14
76	The Comprehensive AOCMF Classification System: Radiological Issues and Systematic Approach. <i>Craniofacial Trauma & Reconstruction</i> , 2014 , 7, S123-30	1.3	13
75	The subdiaphragmatic cistern: historic and radioanatomic findings. <i>Acta Neurochirurgica</i> , 2012 , 154, 667-74; discussion 674	3	13
74	Machine Learning for the Prediction of Molecular Markers in Glioma on Magnetic Resonance Imaging: A Systematic Review and Meta-Analysis. <i>Neurosurgery</i> , 2021 , 89, 31-44	3.2	13
73	Osteomalacia-Inducing Tumors of the Brain: A Case Report, Review and a Hypothesis. <i>World Neurosurgery</i> , 2015 , 84, 189.e1-5	2.1	12
72	Spinal decompression and vertebroplasty in Paget's disease of the spine. <i>World Neurosurgery</i> , 2006 , 66, 189-91; discussion 191		12
71	Letter to the editor. <i>Endocrine Pathology</i> , 2015 , 26, 93-4	4.2	11
70	Computational analyses of arteriovenous malformations in neuroimaging. <i>Journal of Neuroimaging</i> , 2015 , 25, 354-60	2.8	11
69	Pituitary Adenoma and the Chemokine Network: A Systemic View. <i>Frontiers in Endocrinology</i> , 2015 , 6, 141	5.7	11
68	Distinguishing Alzheimer's disease from normal pressure hydrocephalus: a search for MRI biomarkers. <i>Journal of Alzheimer's Disease</i> , 2014 , 38, 331-50	4.3	10
67	On the fractal nature of nervous cell system. <i>Frontiers in Neuroanatomy</i> , 2011 , 5, 45	3.6	10
66	Evaluation of cerebral aneurysm wall thickness in experimental aneurysms: comparison of 3T-MR imaging with direct microscopic measurements. <i>Acta Neurochirurgica</i> , 2014 , 156, 27-34	3	9
65	Cerebrospinal fluid leaks in extended endoscopic transsphenoidal surgery: covering all the angles. <i>Neurosurgical Review</i> , 2017 , 40, 309-318	3.9	9
64	The Comprehensive AOCMF Classification: Skull Base and Cranial Vault Fractures - Level 2 and 3 Tutorial. <i>Craniofacial Trauma & Reconstruction</i> , 2014 , 7, S103-13	1.3	9

63	Computational fractal-based analysis of brain arteriovenous malformation angioarchitecture. <i>Neurosurgery</i> , 2014 , 75, 72-9	3.2	9
62	Computerized occlusion rating: a superior predictor of aneurysm rebleeding for ruptured embolized aneurysms. <i>American Journal of Neuroradiology</i> , 2012 , 33, 1481-7	4.4	9
61	Magnetic Resonance Spectroscopic Assessment of Isocitrate Dehydrogenase Status in Gliomas: The New Frontiers of Spectroscopy in Neurodiagnostics. <i>World Neurosurgery</i> , 2020 , 133, e421-e427	2.1	9
60	Detrended fluctuation analysis of brain hemisphere magnetic resonance images to detect cerebral arteriovenous malformations 2014 ,		8
59	Endoscopic far-lateral approach to the posterolateral craniovertebral junction: an anatomical study. <i>Neurosurgical Review</i> , 2013 , 36, 239-47; discussion 247	3.9	8
58	Microsurgical venous pouch arterial-bifurcation aneurysms in the rabbit model: technical aspects. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	8
57	The microvascular network of the pituitary gland: a model for the application of fractal geometry to the analysis of angioarchitecture and angiogenesis of brain tumors. <i>Journal of Neurosurgical Sciences</i> , 2010 , 54, 49-54	1.3	8
56	Cranial Nerve Nomenclature: Historical Vignette. <i>World Neurosurgery</i> , 2019 , 128, 299-307	2.1	7
55	Improving differential diagnosis of pituitary adenomas. <i>Expert Review of Endocrinology and Metabolism</i> , 2014 , 9, 377-386	4.1	7
54	Intramedullary astrocytoma with granular cell differentiation. <i>Neurosurgical Review</i> , 2007 , 30, 339-43; discussion 343	3.9	7
53	Application of deep learning for automatic segmentation of brain tumors on magnetic resonance imaging: a heuristic approach in the clinical scenario. <i>Neuroradiology</i> , 2021 , 63, 1253-1262	3.2	7
52	Treatment of invasive silent somatotroph pituitary adenoma with temozolomide. Report of a case and review of the literature. <i>Endocrine Pathology</i> , 2015 , 26, 135-9	4.2	6
51	Spectroscopy in neurodiagnostics: the new era. <i>Neuroradiology</i> , 2018 , 60, 129-131	3.2	6
50	Generative Adversarial Networks in Digital Pathology and Histopathological Image Processing: A Review. <i>Journal of Pathology Informatics</i> , 2021 , 12, 43	4.4	6
49	Deep Learning Methodology for Differentiating Glioma Recurrence From Radiation Necrosis Using Multimodal Magnetic Resonance Imaging: Algorithm Development and Validation. <i>JMIR Medical Informatics</i> , 2020 , 8, e19805	3.6	6
48	Functional disability after instrumented stabilization in lumbar degenerative spondylolisthesis: a follow-up study. <i>Functional Neurology</i> , 2006 , 21, 31-7	2.2	6
47	Vasculogenic Mimicry in Clinically Non-functioning Pituitary Adenomas: a Histologic Study. <i>Pathology and Oncology Research</i> , 2017 , 23, 803-809	2.6	5
46	Fractal-based arteriovenous malformations detection in brain magnetic resonance images 2014 ,		5

45	The neuroanatomical plates of Guido da Vigevano. <i>Neurosurgical Focus</i> , 2007 , 23, E15	4.2	5
44	Oligodendroglial gliomatosis cerebri. Case report. <i>Journal of Neurosurgical Sciences</i> , 2006 , 50, 123-5	1.3	5
43	Focal extra-axial hemorrhagic mass with subdural hemorrhage secondare to extramedullary hematopoiesis in idiopathic myelodysplastic syndrome. <i>Journal of Neurosurgical Sciences</i> , 2007 , 51, 29-32 ^{1.3}		5
42	Spherical coordinates transformation pre-processing in Deep Convolution Neural Networks for brain tumor segmentation in MRI. <i>Medical and Biological Engineering and Computing</i> , 2021 , 1	3.1	4
41	The Fractal Geometry of the Brain: An Overview. <i>Springer Series in Computational Neuroscience</i> , 2016 , 3-12	1.1	4
40	Impact of Spherical Coordinates Transformation Pre-processing in Deep Convolution Neural Networks for Brain Tumor Segmentation and Survival Prediction. <i>Lecture Notes in Computer Science</i> , 2021 , 295-306	0.9	4
39	Diagnostic and prognostic biomarkers of a sellar melanocytic tumor mimicking pituitary adenoma: Case report and literature review. <i>Pathology Research and Practice</i> , 2015 , 211, 682-7	3.4	3
38	Human kallikrein 10 expression in surgically removed human pituitary corticotroph adenomas: an immunohistochemical study. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2015 , 23, 433-7	1.9	3
37	Microvessel density. <i>Journal of Neurosurgery: Pediatrics</i> , 2010 , 6, 304-6; author reply 306	2.1	3
36	Memetics in Neurosurgery and Neuroscience. <i>NeuroQuantology</i> , 2008 , 6,	4.2	3
35	Application of artificial intelligence and radiomics in pituitary neuroendocrine and sellar tumors: a quantitative and qualitative synthesis. <i>Neuroradiology</i> , 2021 , 1	3.2	3
34	Delayed Contralateral Trigeminal Neuralgia After Microvascular Decompression and Postoperative Changes in Venous Outflow. <i>World Neurosurgery</i> , 2020 , 140, 107-108	2.1	2
33	Watertight dural closure in brain surgery: a simple model for training. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2014 , 75, 241-5	1.1	2
32	Biomarkers of pituitary carcinomas. <i>Expert Review of Endocrinology and Metabolism</i> , 2016 , 11, 253-261	4.1	2
31	Semi-supervised Adversarial Learning for Stain Normalisation in Histopathology Images. <i>Lecture Notes in Computer Science</i> , 2021 , 581-591	0.9	2
30	How I do it: 3D exoscopic endoscope-assisted microvascular decompression. <i>Acta Neurochirurgica</i> , 2019 , 161, 1443-1447	3	1
29	Canula-assisted endoscopy in bi-portal transphenoidal cranial base surgery: technical note. <i>Acta Neurochirurgica</i> , 2013 , 155, 909-11	3	1
28	Advanced computational and statistical multiparametric analysis of Susceptibility-Weighted Imaging to characterize gliomas and brain metastases		1

27	Spatial and time domain analysis of eye-tracking data during screening of brain magnetic resonance images. <i>PLoS ONE</i> , 2021 , 16, e0260717	3.7	1
26	Deep Learning Methodology for Differentiating Glioma Recurrence From Radiation Necrosis Using Multimodal Magnetic Resonance Imaging: Algorithm Development and Validation (Preprint)		1
25	Fractals in Neuroimaging. <i>Springer Series in Computational Neuroscience</i> , 2016 , 295-309	1.1	1
24	Computational Fractal-Based Analysis of Brain Tumor Microvascular Networks. <i>Springer Series in Computational Neuroscience</i> , 2016 , 393-411	1.1	1
23	Histological Fractal-Based Classification of Brain Tumors. <i>Springer Series in Computational Neuroscience</i> , 2016 , 371-391	1.1	1
22	Brain volumetric and fractal analysis of synthetic MRI: A comparative study with conventional 3D T1-weighted images. <i>European Journal of Radiology</i> , 2021 , 141, 109782	4.7	1
21	Letter to the Editor Regarding "The Exoscope in Neurosurgery: An Innovative Point of View. A Systematic Review of the Technical, Surgical, and Educational Aspects". <i>World Neurosurgery</i> , 2019 , 127, 652	2.1	0
20	Human kallikrein 10 in surgically removed human pituitary adenomas. <i>Hormones</i> , 2015 , 14, 272-9	3.1	0
19	Do neurosurgeons follow the guidelines? A world-based survey on severe traumatic brain injury. <i>Journal of Neurosurgical Sciences</i> , 2021 , 65, 465-473	1.3	0
18	Foundations of Multiparametric Brain Tumour Imaging Characterisation Using Machine Learning. <i>Acta Neurochirurgica Supplementum</i> , 2022 , 134, 183-193	1.7	0
17	Fractal Analysis in Neurological Diseases. <i>Springer Series in Computational Neuroscience</i> , 2016 , 199-211	1.1	0
16	Paulus of Aegina and the Historical Origins of Spine Surgery. <i>World Neurosurgery</i> , 2020 , 133, 291-301	2.1	0
15	Fractal Geometry Meets Computational Intelligence: Future Perspectives. <i>Springer Series in Computational Neuroscience</i> , 2016 , 567-580	1.1	0
14	Assessment of eye-tracking scanpath outliers using fractal geometry. <i>Heliyon</i> , 2021 , 7, e07616	3.6	0
13	Use of deep learning in the MRI diagnosis of Chiari malformation type I.. <i>Neuroradiology</i> , 2022 , 1	3.2	0
12	Computational Fractal-Based Analysis of MR Susceptibility-Weighted Imaging (SWI) in Neuro-oncology and Neurotraumatology. <i>Springer Series in Computational Neuroscience</i> , 2016 , 311-332	1.1	
11	Fractals in Neuroanatomy and Basic Neurosciences: An Overview. <i>Springer Series in Computational Neuroscience</i> , 2016 , 83-89	1.1	
10	Ghrelin: A GH-Releasing, Appetite-Regulating Gastric Hormone. <i>Advances in Neuroimmune Biology</i> , 2013 , 4, 51-65	0.7	

- 9 Sperm Protein 17: Is It a Useful Target Antigen in Human Pituitary Adenomas?. *Procedia in Vaccinology*, **2012**, 6, 39-46
- 8 IOTG-01. Computational Neurosurgery in Brain Tumors: A paradigm shift on the use of Artificial Intelligence and Connectomics in pre- and intra-operative imaging. *Neuro-Oncology*, **2021**, 23, vi227-vi227¹
- 7 Fractal-Based Analysis of Arteriovenous Malformations (AVMs). *Springer Series in Computational Neuroscience*, **2016**, 279-293 1.1
- 6 Training in skull base surgery: a holistic perspective. *Journal of Neurosurgical Sciences*, **2017**, 61, 690-691^{1,3}
- 5 In Reply to the Letter to the Editor Regarding "Delayed Contralateral Trigeminal Neuralgia After Microvascular Decompression and Postoperative Change in Venous Outflow". *World Neurosurgery*, **2020**, 142, 564 2.1
- 4 The Royal Australasian College of Surgeons John Mitchell Crouch Fellowship: a neurosurgical perspective. *ANZ Journal of Surgery*, **2021**, 91, 793-794 1
- 3 Fractal Analysis in Clinical Neurosciences: An Overview. *Springer Series in Computational Neuroscience*, **2016**, 189-198 1.1
- 2 Significant venous flow alterations following brain arteriovenous malformation Surgery: Assessment by transcranial colour duplex.. *Journal of Clinical Neuroscience*, **2022**, 99, 268-274 2.2
- 1 Anchoring of a mental nerve stimulator for treatment of facial neuropathic pain: a case illustration.. *British Journal of Neurosurgery*, **2022**, 1-3 1