Antonio Di Ieva

List of Publications by Year in descending order

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Version: 2024-02-01

139 papers 3,230 citations

30 h-index 206112 48 g-index

145 all docs 145 docs citations

145 times ranked

4167 citing authors

#	Article	IF	CITATIONS
1	Aggressive pituitary adenomas—diagnosis and emerging treatments. Nature Reviews Endocrinology, 2014, 10, 423-435.	9.6	239
2	Fractals in the Neurosciences, Part I: General Principles and Basic Neurosciences. Neuroscientist, 2014, 20, 403-417.	3.5	142
3	Fractals in the Neurosciences, Part II. Neuroscientist, 2015, 21, 30-43.	3.5	139
4	Strong 5-aminolevulinic acid-induced fluorescence is a novel intraoperative marker for representative tissue samples in stereotactic brain tumor biopsies. Neurosurgical Review, 2012, 35, 381-391.	2.4	86
5	Autophagy in the endocrine glands. Journal of Molecular Endocrinology, 2014, 52, R151-R163.	2.5	76
6	Fractal dimension as a quantitator of the microvasculature of normal and adenomatous pituitary tissue. Journal of Anatomy, 2007, 211, 673-680.	1.5	75
7	Current Applications and Future Perspectives of the Use of 3D Printing in Anatomical Training and Neurosurgery. Frontiers in Neuroanatomy, 2016, 10, 69.	1.7	72
8	Arginine vasopressin (AVP): a review of its historical perspectives, current research and multifunctional role in the hypothalamo-hypophysial system. Pituitary, 2016, 19, 345-355.	2.9	72
9	Isocitrate dehydrogenase (IDH) status prediction in histopathology images of gliomas using deep learning. Scientific Reports, 2020, 10, 7733.	3.3	66
10	Endoscopic versus microscopic approach for surgical treatment of acromegaly. Neurosurgical Review, 2015, 38, 541-549.	2.4	63
11	Three-dimensional susceptibility-weighted imaging at 7ÂT using fractal-based quantitative analysis to grade gliomas. Neuroradiology, 2013, 55, 35-40.	2.2	61
12	Invasive, Atypical and Aggressive Pituitary Adenomas and Carcinomas. Endocrinology and Metabolism Clinics of North America, 2015, 44, 99-104.	3.2	59
13	Angioarchitectural heterogeneity in human glioblastoma multiforme: A fractal-based histopathological assessment. Microvascular Research, 2011, 81, 222-230.	2.5	53
14	Progress in the Diagnosis and Classification of Pituitary Adenomas. Frontiers in Endocrinology, 2015, 6, 97.	3.5	51
15	Deep learning for automated cerebral aneurysm detection on computed tomography images. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 715-723.	2.8	50
16	Magnetic resonance elastography: a general overview of its current and future applications in brain imaging. Neurosurgical Review, 2010, 33, 137-145.	2.4	49
17	LIQUOR COTUNNII. Neurosurgery, 2008, 63, 352-358.	1.1	48
18	Cranial sutures: a multidisciplinary review. Child's Nervous System, 2013, 29, 893-905.	1.1	46

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19	A Journey into the Technical Evolution of Neuroendoscopy. World Neurosurgery, 2014, 82, e777-e789.	1.3	44
20	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. World Neurosurgery, 2012, 77, 785.e11-785.e21.	1.3	43
21	MicroRNAs as Biomarkers in Pituitary Tumors. Neurosurgery, 2014, 75, 181-189.	1.1	43
22	Machine Learning for the Prediction of Molecular Markers in Glioma on Magnetic Resonance Imaging: A Systematic Review and Meta-Analysis. Neurosurgery, 2021, 89, 31-44.	1.1	42
23	Magnetic resonance susceptibility weighted imaging in neurosurgery: current applications and future perspectives. Journal of Neurosurgery, 2015, 123, 1463-1475.	1.6	41
24	Endoscopic approaches to the trigeminal nerve and clinical consideration for trigeminal schwannomas: a cadaveric study. Journal of Neurosurgery, 2012, 117, 690-696.	1.6	38
25	Crooke's Cell Tumors of the Pituitary. Neurosurgery, 2015, 76, 616-622.	1.1	38
26	Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. Scientific Reports, 2019, 9, 12228.	3.3	38
27	Skull base embryology: a multidisciplinary review. Child's Nervous System, 2014, 30, 991-1000.	1.1	37
28	Cancer initiation and progression: an unsimplifiable complexity. Theoretical Biology and Medical Modelling, 2006, 3, 37.	2.1	36
29	Sperm protein 17 is expressed in human nervous system tumours. BMC Cancer, 2006, 6, 23.	2.6	36
30	Application of deep learning for automatic segmentation of brain tumors on magnetic resonance imaging: a heuristic approach in the clinical scenario. Neuroradiology, 2021, 63, 1253-1262.	2.2	36
31	Generative Adversarial Networks in Digital Pathology and Histopathological Image Processing: A Review. Journal of Pathology Informatics, 2021, 12, 43.	1.7	36
32	Analysis of Intracranial Pressure. Neuroscientist, 2013, 19, 592-603.	3 . 5	34
33	Fractal analysis of microvascular networks in malignant brain tumors. , 2012, 31, 342-351.		33
34	Berengario da Carpi: a pioneer in neurotraumatology. Journal of Neurosurgery, 2011, 114, 1461-1470.	1.6	32
35	Radiomics in gliomas: clinical implications of computational modeling and fractal-based analysis. Neuroradiology, 2020, 62, 771-790.	2.2	32
36	Angioarchitectural morphometrics of brain tumors: Are there any potential histopathological biomarkers?. Microvascular Research, 2010, 80, 522-533.	2.5	31

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37	Autophagy in endocrine tumors. Endocrine-Related Cancer, 2015, 22, R205-R218.	3.1	31
38	Computational quantitative MR image features - a potential useful tool in differentiating glioblastoma from solitary brain metastasis. European Journal of Radiology, 2019, 119, 108634.	2.6	31
39	Euclidean and fractal geometry of microvascular networks in normal and neoplastic pituitary tissue. Neurosurgical Review, 2008, 31, 271-281.	2.4	30
40	Diagnostic Value of Fractal Analysis for the Differentiation of Brain Tumors Using 3-Tesla Magnetic Resonance Susceptibility-Weighted Imaging. Neurosurgery, 2016, 79, 839-846.	1.1	30
41	The veins of the nucleus dentatus: Anatomical and radiological findings. NeuroImage, 2011, 54, 74-79.	4.2	29
42	Microvascular morphometrics of the hypophysis and pituitary tumors: From bench to operating theatre. Microvascular Research, 2013, 89, 7-14.	2.5	29
43	The impact of body mass index and height on the risk for glioblastoma and other glioma subgroups: a large prospective cohort study. Neuro-Oncology, 2016, 19, now272.	1.2	29
44	Computer-assisted and fractal-based morphometric assessment of microvascularity in histological specimens of gliomas. Scientific Reports, 2012, 2, 429.	3.3	28
45	Correlation of microvascular fractal dimension with positron emission tomography [11C]-methionine uptake in glioblastoma multiforme: Preliminary findings. Microvascular Research, 2010, 80, 267-273.	2.5	26
46	Endoscopic telovelar approach to the fourth ventricle: anatomic study. Neurosurgical Review, 2012, 35, 341-349.	2.4	26
47	Overweight, obesity and height as risk factors for meningioma, glioma, pituitary adenoma and nerve sheath tumor: a large population-based prospective cohort study. Acta Oncol³gica, 2017, 56, 1302-1309.	1.8	26
48	The indusium griseum and the longitudinal striae of the corpus callosum. Cortex, 2015, 62, 34-40.	2.4	25
49	A management algorithm for cerebrospinal fluid leak associated with anterior skull base fractures: detailed clinical and radiological follow-up. Neurosurgical Review, 2012, 35, 227-238.	2.4	24
50	Endoscopic Extradural Subtemporal Approach to Lateral and Central Skull Base: AÂCadaveric Study. World Neurosurgery, 2013, 80, 591-597.	1.3	24
51	Al-augmented multidisciplinary teams: hype or hope?. Lancet, The, 2019, 394, 1801.	13.7	24
52	Vertebroplasty for pain relief and spinal stabilization in multiple myeloma. Neurological Sciences, 2010, 31, 151-157.	1.9	22
53	Microvascularization of Grade I meningiomas: effect on tumor volume, blood loss, and patient outcome. Journal of Neurosurgery, 2018, 128, 657-666.	1.6	22
54	LANCISI'S NERVES AND THE SEAT OF THE SOUL. Neurosurgery, 2007, 60, 563-568.	1.1	21

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55	Antiangiogenic Strategies in Medulloblastoma: Reality or Mystery. Pediatric Research, 2008, 63, 584-590.	2.3	21
56	The First AO Classification System for Fractures of the Craniomaxillofacial Skeleton: Rationale, Methodological Background, Developmental Process, and Objectives. Craniomaxillofacial Trauma & Reconstruction, 2014, 7, 6-14.	1.3	20
57	Chordoid meningiomas: Incidence and clinicopathological features of a case series over 18 years. Neuropathology, 2015, 35, 137-147.	1.2	20
58	Practical Guidelines for Setting up an Endoscopic/Skull Base Cadaver Laboratory. World Neurosurgery, 2013, 79, S16.e1-S16.e7.	1.3	19
59	Current status on histological classification in Cushing's disease. Pituitary, 2015, 18, 217-224.	2.9	19
60	Calvarial metastases as clinical presentation of renal cell carcinoma: report of two cases and review of the literature. Clinical Neurology and Neurosurgery, 2005, 107, 329-333.	1.4	18
61	The neuroanatomical plates of Guido da Vigevano. Neurosurgical Focus, 2007, 23, 1-4.	2.3	18
62	The subdiaphragmatic cistern: historic and radioanatomic findings. Acta Neurochirurgica, 2012, 154, 667-674.	1.7	18
63	Lumbar Arachnoiditis and Thecaloscopy: Brief Review and Proposed Treatment Algorithm. Central European Neurosurgery, 2010, 71, 207-212.	0.7	17
64	On the Fractal Nature of Nervous Cell System. Frontiers in Neuroanatomy, 2011, 5, 45.	1.7	17
65	Computational Analyses of Arteriovenous Malformations in Neuroimaging. Journal of Neuroimaging, 2015, 25, 354-360.	2.0	17
66	Computational Fractal-Based Analysis of Brain Arteriovenous Malformation Angioarchitecture. Neurosurgery, 2014, 75, 72-79.	1.1	16
67	Magnetic Resonance Spectroscopic Assessment of Isocitrate Dehydrogenase Status inÂGliomas: The New Frontiers of Spectrobiopsy in Neurodiagnostics. World Neurosurgery, 2020, 133, e421-e427.	1.3	16
68	The Comprehensive AOCMF Classification System: Radiological Issues and Systematic Approach. Craniomaxillofacial Trauma & Reconstruction, 2014, 7, 123-130.	1.3	15
69	Pituitary Adenoma and the Chemokine Network: A Systemic View. Frontiers in Endocrinology, 2015, 6, 141.	3.5	15
70	Deep Learning Methodology for Differentiating Glioma Recurrence From Radiation Necrosis Using Multimodal Magnetic Resonance Imaging: Algorithm Development and Validation. JMIR Medical Informatics, 2020, 8, e19805.	2.6	15
71	Spinal decompression and vertebroplasty in Paget's disease of the spine. World Neurosurgery, 2006, 66, 189-191.	1.3	14
72	The Comprehensive AOCMF Classification: Skull Base and Cranial Vault Fractures â€" Level 2 and 3 Tutorial. Craniomaxillofacial Trauma & Reconstruction, 2014, 7, 103-113.	1.3	14

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73	Osteomalacia-Inducing Tumors of the Brain: A Case Report, Review and a Hypothesis. World Neurosurgery, 2015, 84, 189.e1-189.e5.	1.3	14
74	Letter to the Editor. Endocrine Pathology, 2015, 26, 93-94.	9.0	13
75	Cerebrospinal fluid leaks in extended endoscopic transsphenoidal surgery: covering all the angles. Neurosurgical Review, 2017, 40, 309-318.	2.4	13
76	Spherical coordinates transformation pre-processing in Deep Convolution Neural Networks for brain tumor segmentation in MRI. Medical and Biological Engineering and Computing, 2022, 60, 121-134.	2.8	13
77	Detrended fluctuation analysis of brain hemisphere magnetic resonnance images to detect cerebral arteriovenous malformations., 2014,,.		12
78	Evaluation of cerebral aneurysm wall thickness in experimental aneurysms: Comparison of 3T-MR imaging with direct microscopic measurements. Acta Neurochirurgica, 2014, 156, 27-34.	1.7	12
79	Distinguishing Alzheimer's Disease from Normal Pressure Hydrocephalus: A Search for MRI Biomarkers. Journal of Alzheimer's Disease, 2013, 38, 331-350.	2.6	11
80	Microsurgical Venous Pouch Arterial-Bifurcation Aneurysms in the Rabbit Model: Technical Aspects. Journal of Visualized Experiments, 2011, , .	0.3	10
81	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. Journal of Neurosurgical Sciences, 2010, 54, 49-54.	0.6	10
82	Computerized Occlusion Rating: A Superior Predictor of Aneurysm Rebleeding for Ruptured Embolized Aneurysms. American Journal of Neuroradiology, 2012, 33, 1481-1487.	2.4	9
83	Endoscopic far-lateral approach to the posterolateral craniovertebral junction: an anatomical study. Neurosurgical Review, 2013, 36, 239-247.	2.4	9
84	Improving differential diagnosis of pituitary adenomas. Expert Review of Endocrinology and Metabolism, 2014, 9, 377-386.	2.4	9
85	Semi-supervised Adversarial Learning for Stain Normalisation in Histopathology Images. Lecture Notes in Computer Science, 2021, , 581-591.	1.3	9
86	Cranial Nerve Nomenclature: Historical Vignette. World Neurosurgery, 2019, 128, 299-307.	1.3	8
87	Brain volumetric and fractal analysis of synthetic MRI: A comparative study with conventional 3D T1-weighted images. European Journal of Radiology, 2021, 141, 109782.	2.6	8
88	Impact of Spherical Coordinates Transformation Pre-processing in Deep Convolution Neural Networks for Brain Tumor Segmentation and Survival Prediction. Lecture Notes in Computer Science, 2021, , 295-306.	1.3	8
89	Application of artificial intelligence and radiomics in pituitary neuroendocrine and sellar tumors: a quantitative and qualitative synthesis. Neuroradiology, 2022, 64, 647-668.	2.2	8
90	Intramedullary astrocytoma with granular cell differentiation. Neurosurgical Review, 2007, 30, 339-343.	2.4	7

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91	Treatment of Invasive Silent Somatotroph Pituitary Adenoma with Temozolomide. Report of a Case and Review of the Literature. Endocrine Pathology, 2015, 26, 135-139.	9.0	7
92	The Fractal Geometry of the Brain: An Overview. Springer Series in Computational Neuroscience, 2016, , 3-12.	0.3	7
93	Spectrobiopsy in neurodiagnostics: the new era. Neuroradiology, 2018, 60, 129-131.	2.2	7
94	Functional disability after instrumented stabilization in lumbar degenerative spondylolisthesis: a follow-up study. Functional Neurology, 2006, 21, 31-7.	1.3	7
95	Fractal-based arteriovenous malformations detection in brain magnetic resonance images. , 2014, , .		6
96	Vasculogenic Mimicry in Clinically Non-functioning Pituitary Adenomas: a Histologic Study. Pathology and Oncology Research, 2017, 23, 803-809.	1.9	6
97	Texture Enhanced Generative Adversarial Network For Stain Normalisation In Histopathology Images. , 2021, , .		6
98	Memetics in Neurosurgery and Neuroscience. NeuroQuantology, 2008, 6, .	0.2	6
99	The neuroanatomical plates of Guido da Vigevano. Neurosurgical Focus, 2007, 23, E15.	2.3	6
100	Human Kallikrein 10 Expression in Surgically Removed Human Pituitary Corticotroph Adenomas. Applied Immunohistochemistry and Molecular Morphology, 2015, 23, 433-437.	1.2	5
101	Spatial and time domain analysis of eye-tracking data during screening of brain magnetic resonance images. PLoS ONE, 2021, 16, e0260717.	2.5	5
102	Oligodendroglial gliomatosis cerebri. Case report. Journal of Neurosurgical Sciences, 2006, 50, 123-5.	0.6	5
103	Focal extra-axial hemorrahagic mass with subdural hemorrhage secondare to extramedullary hematopoiesis in idiopathic myelodysplastic sindrome. Journal of Neurosurgical Sciences, 2007, 51, 29-32.	0.6	5
104	Artificial Intelligence for Survival Prediction in Brain Tumors on Neuroimaging. Neurosurgery, 2022, Publish Ahead of Print, .	1.1	5
105	Letter to the Editor. Journal of Neurosurgery: Pediatrics, 2010, 6, 304-306.	1.3	4
106	Watertight Dural Closure in Brain Surgery: A Simple Model for Training. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2014, 75, 241-245.	0.8	4
107	Diagnostic and prognostic biomarkers of a sellar melanocytic tumor mimicking pituitary adenoma: Case report and literature review. Pathology Research and Practice, 2015, 211, 682-687.	2.3	4
108	Foundations of Multiparametric Brain Tumour Imaging Characterisation Using Machine Learning. Acta Neurochirurgica Supplementum, 2022, 134, 183-193.	1.0	4

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109	Use of deep learning in the MRI diagnosis of Chiari malformation type I. Neuroradiology, 2022, , 1.	2.2	4
110	Canula-assisted endoscopy in bi-portal transphenoidal cranial base surgery: technical note. Acta Neurochirurgica, 2013, 155, 909-911.	1.7	3
111	Human kallikrein 10 in surgically removed human pituitary adenomas. Hormones, 2014, 14, 272-9.	1.9	3
112	Histological Fractal-Based Classification of Brain Tumors. Springer Series in Computational Neuroscience, 2016, , 371-391.	0.3	3
113	How I do it: 3D exoscopic endoscope-assisted microvascular decompression. Acta Neurochirurgica, 2019, 161, 1443-1447.	1.7	3
114	Delayed Contralateral Trigeminal Neuralgia After Microvascular Decompression and Postoperative Changes in Venous Outflow. World Neurosurgery, 2020, 140, 107-108.	1.3	3
115	Biomarkers of pituitary carcinomas. Expert Review of Endocrinology and Metabolism, 2016, 11, 253-261.	2.4	2
116	Letter to the Editor Regarding "The Exoscope in Neurosurgery: An Innovative Point of View. A Systematic Review of the Technical, Surgical, and Educational Aspects― World Neurosurgery, 2019, 127, 652.	1.3	2
117	Paulus of Aegina and the Historical Origins of Spine Surgery. World Neurosurgery, 2020, 133, 291-301.	1.3	2
118	Assessment of eye-tracking scanpath outliers using fractal geometry. Heliyon, 2021, 7, e07616.	3.2	2
119	Fractal Analysis in Neurological Diseases. Springer Series in Computational Neuroscience, 2016, , 199-211.	0.3	2
120	Computational Fractal-Based Analysis of Brain Tumor Microvascular Networks. Springer Series in Computational Neuroscience, 2016, , 393-411.	0.3	2
121	Do neurosurgeons follow the guidelines? A world-based survey on severe traumatic brain injury. Journal of Neurosurgical Sciences, 2021, 65, 465-473.	0.6	2
122	Fractal Geometry Meets Computational Intelligence: Future Perspectives. Springer Series in Computational Neuroscience, 2016, , 567-580.	0.3	1
123	Fractals in Neuroimaging. Springer Series in Computational Neuroscience, 2016, , 295-309.	0.3	1
124	Fractal-Based Analysis of Arteriovenous Malformations (AVMs). Springer Series in Computational Neuroscience, 2016, , 279-293.	0.3	1
125	Training in skull base surgery: a holistic perspective. Journal of Neurosurgical Sciences, 2017, 61, 690-691.	0.6	1
126	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-vi227.	1.2	1

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127	Two-stage U-Net++ for Medical Image Segmentation. , 2021, , .		1
128	Anchoring of a mental nerve stimulator for treatment of facial neuropathic pain: a case illustration. British Journal of Neurosurgery, 2022, , 1 -3.	0.8	1
129	Sperm Protein 17: Is It a Useful Target Antigen in Human Pituitary Adenomas?. Procedia in Vaccinology, 2012, 6, 39-46.	0.4	0
130	Ghrelin: A GH-Releasing, Appetite-Regulating Gastric Hormone. Advances in Neuroimmune Biology, 2013, 4, 51-65.	0.7	0
131	Fractal Analysis in Clinical Neurosciences: An Overview. Springer Series in Computational Neuroscience, 2016, , 189-198.	0.3	0
132	Computational Fractal-Based Analysis of MR Susceptibility-Weighted Imaging (SWI) in Neuro-oncology and Neurotraumatology. Springer Series in Computational Neuroscience, 2016, , 311-332.	0.3	0
133	Fractals in Neuroanatomy and Basic Neurosciences: An Overview. Springer Series in Computational Neuroscience, 2016, , 83-89.	0.3	0
134	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.	1.3	0
135	The Royal Australasian College of Surgeons John Mitchell Crouch Fellowship: a neurosurgical perspective. ANZ Journal of Surgery, 2021, 91, 793-794.	0.7	0
136	Computational Fractal-Based Neurosciences: An Overview. Springer Series in Computational Neuroscience, 2016, , 499-502.	0.3	0
137	Cerebral Microvascular Dysfunction and Clinical Considerations of Systemic Arterial Hypertension. Hypertension Journal, 2020, 6, 117-124.	0.1	0
138	Rethinking immunotherapy for brain cancers in the light of cancer complexity. Indian Journal of Medical Research, 2013, 137, 871-3.	1.0	0
139	Significant venous flow alterations following brain arteriovenous malformation Surgery: Assessment by transcranial colour duplex. Journal of Clinical Neuroscience, 2022, 99, 268-274.	1.5	O