

Antonio Di Ieva

List of Publications by Year in descending order

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Version: 2024-02-01

139
papers

3,230
citations

159358

30
h-index

205818

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. <i>Nature Reviews Endocrinology</i> , 2014, 10, 423-435.	4.3	239
2	Fractals in the Neurosciences, Part I: General Principles and Basic Neurosciences. <i>Neuroscientist</i> , 2014, 20, 403-417.	2.6	142
3	Fractals in the Neurosciences, Part II. <i>Neuroscientist</i> , 2015, 21, 30-43.	2.6	139
4	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, 381-391.	1.2	86
5	Autophagy in the endocrine glands. <i>Journal of Molecular Endocrinology</i> , 2014, 52, R151-R163.	1.1	76
6	Fractal dimension as a quantitor of the microvasculature of normal and adenomatous pituitary tissue. <i>Journal of Anatomy</i> , 2007, 211, 673-680.	0.9	75
7	Current Applications and Future Perspectives of the Use of 3D Printing in Anatomical Training and Neurosurgery. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 69.	0.9	72
8	Arginine vasopressin (AVP): a review of its historical perspectives, current research and multifunctional role in the hypothalamo-hypophysial system. <i>Pituitary</i> , 2016, 19, 345-355.	1.6	72
9	Isocitrate dehydrogenase (IDH) status prediction in histopathology images of gliomas using deep learning. <i>Scientific Reports</i> , 2020, 10, 7733.	1.6	66
10	Endoscopic versus microscopic approach for surgical treatment of acromegaly. <i>Neurosurgical Review</i> , 2015, 38, 541-549.	1.2	63
11	Three-dimensional susceptibility-weighted imaging at 7T using fractal-based quantitative analysis to grade gliomas. <i>Neuroradiology</i> , 2013, 55, 35-40.	1.1	61
12	Invasive, Atypical and Aggressive Pituitary Adenomas and Carcinomas. <i>Endocrinology and Metabolism Clinics of North America</i> , 2015, 44, 99-104.	1.2	59
13	Angioarchitectural heterogeneity in human glioblastoma multiforme: A fractal-based histopathological assessment. <i>Microvascular Research</i> , 2011, 81, 222-230.	1.1	53
14	Progress in the Diagnosis and Classification of Pituitary Adenomas. <i>Frontiers in Endocrinology</i> , 2015, 6, 97.	1.5	51
15	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.	1.7	50
16	Magnetic resonance elastography: a general overview of its current and future applications in brain imaging. <i>Neurosurgical Review</i> , 2010, 33, 137-145.	1.2	49
17	LIQUOR COTUNNII. <i>Neurosurgery</i> , 2008, 63, 352-358.	0.6	48
18	Cranial sutures: a multidisciplinary review. <i>Child's Nervous System</i> , 2013, 29, 893-905.	0.6	46

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19	A Journey into the Technical Evolution of Neuroendoscopy. <i>World Neurosurgery</i> , 2014, 82, e777-e789.	0.7	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. <i>World Neurosurgery</i> , 2012, 77, 785.e11-785.e21.	0.7	43
21	MicroRNAs as Biomarkers in Pituitary Tumors. <i>Neurosurgery</i> , 2014, 75, 181-189.	0.6	43
22	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.	0.6	42
23	Magnetic resonance susceptibility weighted imaging in neurosurgery: current applications and future perspectives. <i>Journal of Neurosurgery</i> , 2015, 123, 1463-1475.	0.9	41
24	Endoscopic approaches to the trigeminal nerve and clinical consideration for trigeminal schwannomas: a cadaveric study. <i>Journal of Neurosurgery</i> , 2012, 117, 690-696.	0.9	38
25	Crooke's Cell Tumors of the Pituitary. <i>Neurosurgery</i> , 2015, 76, 616-622.	0.6	38
26	Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports</i> , 2019, 9, 12228.	1.6	38
27	Skull base embryology: a multidisciplinary review. <i>Child's Nervous System</i> , 2014, 30, 991-1000.	0.6	37
28	Cancer initiation and progression: an unsimplifiable complexity. <i>Theoretical Biology and Medical Modelling</i> , 2006, 3, 37.	2.1	36
29	Sperm protein 17 is expressed in human nervous system tumours. <i>BMC Cancer</i> , 2006, 6, 23.	1.1	36
30	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.	1.1	36
31	Generative Adversarial Networks in Digital Pathology and Histopathological Image Processing: A Review. <i>Journal of Pathology Informatics</i> , 2021, 12, 43.	0.8	36
32	Analysis of Intracranial Pressure. <i>Neuroscientist</i> , 2013, 19, 592-603.	2.6	34
33	Fractal analysis of microvascular networks in malignant brain tumors. , 2012, 31, 342-351.		33
34	Berengario da Carpi: a pioneer in neurotraumatology. <i>Journal of Neurosurgery</i> , 2011, 114, 1461-1470.	0.9	32
35	Radiomics in gliomas: clinical implications of computational modeling and fractal-based analysis. <i>Neuroradiology</i> , 2020, 62, 771-790.	1.1	32
36	Angioarchitectural morphometrics of brain tumors: Are there any potential histopathological biomarkers?. <i>Microvascular Research</i> , 2010, 80, 522-533.	1.1	31

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37	Autophagy in endocrine tumors. <i>Endocrine-Related Cancer</i> , 2015, 22, R205-R218.	1.6	31
38	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.	1.2	31
39	Euclidean and fractal geometry of microvascular networks in normal and neoplastic pituitary tissue. <i>Neurosurgical Review</i> , 2008, 31, 271-281.	1.2	30
40	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.	0.6	30
41	The veins of the nucleus dentatus: Anatomical and radiological findings. <i>NeuroImage</i> , 2011, 54, 74-79.	2.1	29
42	Microvascular morphometrics of the hypophysis and pituitary tumors: From bench to operating theatre. <i>Microvascular Research</i> , 2013, 89, 7-14.	1.1	29
43	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> , 2016, 19, now272.	0.6	29
44	Computer-assisted and fractal-based morphometric assessment of microvasculature in histological specimens of gliomas. <i>Scientific Reports</i> , 2012, 2, 429.	1.6	28
45	Correlation of microvascular fractal dimension with positron emission tomography [¹¹ C]-methionine uptake in glioblastoma multiforme: Preliminary findings. <i>Microvascular Research</i> , 2010, 80, 267-273.	1.1	26
46	Endoscopic telovelar approach to the fourth ventricle: anatomic study. <i>Neurosurgical Review</i> , 2012, 35, 341-349.	1.2	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. <i>Acta Oncologica</i> , 2017, 56, 1302-1309.	0.8	26
48	The indusium griseum and the longitudinal striae of the corpus callosum. <i>Cortex</i> , 2015, 62, 34-40.	1.1	25
49	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, 227-238.	1.2	24
50	Endoscopic Extradural Subtemporal Approach to Lateral and Central Skull Base: A Cadaveric Study. <i>World Neurosurgery</i> , 2013, 80, 591-597.	0.7	24
51	AI-augmented multidisciplinary teams: hype or hope?. <i>Lancet, The</i> , 2019, 394, 1801.	6.3	24
52	Vertebroplasty for pain relief and spinal stabilization in multiple myeloma. <i>Neurological Sciences</i> , 2010, 31, 151-157.	0.9	22
53	Microvascularization of Grade I meningiomas: effect on tumor volume, blood loss, and patient outcome. <i>Journal of Neurosurgery</i> , 2018, 128, 657-666.	0.9	22
54	LANCISI'S NERVES AND THE SEAT OF THE SOUL. <i>Neurosurgery</i> , 2007, 60, 563-568.	0.6	21

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55	Antiangiogenic Strategies in Medulloblastoma: Reality or Mystery. <i>Pediatric Research</i> , 2008, 63, 584-590.	1.1	21
56	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, 6-14.	0.6	20
57	Chordoid meningiomas: Incidence and clinicopathological features of a case series over 18 years. <i>Neuropathology</i> , 2015, 35, 137-147.	0.7	20
58	Practical Guidelines for Setting up an Endoscopic/Skull Base Cadaver Laboratory. <i>World Neurosurgery</i> , 2013, 79, S16.e1-S16.e7.	0.7	19
59	Current status on histological classification in Cushing's disease. <i>Pituitary</i> , 2015, 18, 217-224.	1.6	19
60	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, 329-333.	0.6	18
61	The neuroanatomical plates of Guido da Vigevano. <i>Neurosurgical Focus</i> , 2007, 23, 1-4.	1.0	18
62	The subdiaphragmatic cistern: historic and radioanatomic findings. <i>Acta Neurochirurgica</i> , 2012, 154, 667-674.	0.9	18
63	Lumbar Arachnoiditis and Thecaloscopy: Brief Review and Proposed Treatment Algorithm. <i>Central European Neurosurgery</i> , 2010, 71, 207-212.	0.7	17
64	On the Fractal Nature of Nervous Cell System. <i>Frontiers in Neuroanatomy</i> , 2011, 5, 45.	0.9	17
65	Computational Analyses of Arteriovenous Malformations in Neuroimaging. <i>Journal of Neuroimaging</i> , 2015, 25, 354-360.	1.0	17
66	Computational Fractal-Based Analysis of Brain Arteriovenous Malformation Angioarchitecture. <i>Neurosurgery</i> , 2014, 75, 72-79.	0.6	16
67	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.	0.7	16
68	The Comprehensive AOCMF Classification System: Radiological Issues and Systematic Approach. <i>Craniomaxillofacial Trauma & Reconstruction</i> , 2014, 7, 123-130.	0.6	15
69	Pituitary Adenoma and the Chemokine Network: A Systemic View. <i>Frontiers in Endocrinology</i> , 2015, 6, 141.	1.5	15
70	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.	1.3	15
71	Spinal decompression and vertebroplasty in Paget's disease of the spine. <i>World Neurosurgery</i> , 2006, 66, 189-191.	1.3	14
72	The Comprehensive AOCMF Classification: Skull Base and Cranial Vault Fractures – Level 2 and 3 Tutorial. <i>Craniomaxillofacial Trauma & Reconstruction</i> , 2014, 7, 103-113.	0.6	14

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73	Osteomalacia-Inducing Tumors of the Brain: A Case Report, Review and a Hypothesis. <i>World Neurosurgery</i> , 2015, 84, 189.e1-189.e5.	0.7	14
74	Letter to the Editor. <i>Endocrine Pathology</i> , 2015, 26, 93-94.	5.2	13
75	Cerebrospinal fluid leaks in extended endoscopic transsphenoidal surgery: covering all the angles. <i>Neurosurgical Review</i> , 2017, 40, 309-318.	1.2	13
76	Spherical coordinates transformation pre-processing in Deep Convolution Neural Networks for brain tumor segmentation in MRI. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 121-134.	1.6	13
77	Detrended fluctuation analysis of brain hemisphere magnetic resonance 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. <i>Acta Neurochirurgica</i> , 2014, 156, 27-34.	0.9	12
79	Distinguishing Alzheimer's Disease from Normal Pressure Hydrocephalus: A Search for MRI Biomarkers. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 331-350.	1.2	11
80	Microsurgical Venous Pouch Arterial-Bifurcation Aneurysms in the Rabbit Model: Technical Aspects. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	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. <i>Journal of Neurosurgical Sciences</i> , 2010, 54, 49-54.	0.3	10
82	Computerized Occlusion Rating: A Superior Predictor of Aneurysm Rebleeding for Ruptured Embolized Aneurysms. <i>American Journal of Neuroradiology</i> , 2012, 33, 1481-1487.	1.2	9
83	Endoscopic far-lateral approach to the posterolateral craniovertebral junction: an anatomical study. <i>Neurosurgical Review</i> , 2013, 36, 239-247.	1.2	9
84	Improving differential diagnosis of pituitary adenomas. <i>Expert Review of Endocrinology and Metabolism</i> , 2014, 9, 377-386.	1.2	9
85	Semi-supervised Adversarial Learning for Stain Normalisation in Histopathology Images. <i>Lecture Notes in Computer Science</i> , 2021, , 581-591.	1.0	9
86	Cranial Nerve Nomenclature: Historical Vignette. <i>World Neurosurgery</i> , 2019, 128, 299-307.	0.7	8
87	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.	1.2	8
88	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.	1.0	8
89	Application of artificial intelligence and radiomics in pituitary neuroendocrine and sellar tumors: a quantitative and qualitative synthesis. <i>Neuroradiology</i> , 2022, 64, 647-668.	1.1	8
90	Intramedullary astrocytoma with granular cell differentiation. <i>Neurosurgical Review</i> , 2007, 30, 339-343.	1.2	7

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91	Treatment of Invasive Silent Somatotroph Pituitary Adenoma with Temozolomide. Report of a Case and Review of the Literature. <i>Endocrine Pathology</i> , 2015, 26, 135-139.	5.2	7
92	The Fractal Geometry of the Brain: An Overview. <i>Springer Series in Computational Neuroscience</i> , 2016, , 3-12.	0.3	7
93	Spectrobiopsy in neurodiagnostics: the new era. <i>Neuroradiology</i> , 2018, 60, 129-131.	1.1	7
94	Functional disability after instrumented stabilization in lumbar degenerative spondylolisthesis: a follow-up study. <i>Functional Neurology</i> , 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. <i>Pathology and Oncology Research</i> , 2017, 23, 803-809.	0.9	6
97	Texture Enhanced Generative Adversarial Network For Stain Normalisation In Histopathology Images. , 2021, , .		6
98	Memetics in Neurosurgery and Neuroscience. <i>NeuroQuantology</i> , 2008, 6, .	0.1	6
99	The neuroanatomical plates of Guido da Vigevano. <i>Neurosurgical Focus</i> , 2007, 23, E15.	1.0	6
100	Human Kallikrein 10 Expression in Surgically Removed Human Pituitary Corticotroph Adenomas. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2015, 23, 433-437.	0.6	5
101	Spatial and time domain analysis of eye-tracking data during screening of brain magnetic resonance images. <i>PLoS ONE</i> , 2021, 16, e0260717.	1.1	5
102	Oligodendroglial gliomatosis cerebri. Case report. <i>Journal of Neurosurgical Sciences</i> , 2006, 50, 123-5.	0.3	5
103	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.	0.3	5
104	Artificial Intelligence for Survival Prediction in Brain Tumors on Neuroimaging. <i>Neurosurgery</i> , 2022, Publish Ahead of Print, .	0.6	5
105	Letter to the Editor. <i>Journal of Neurosurgery: Pediatrics</i> , 2010, 6, 304-306.	0.8	4
106	Watertight Dural Closure in Brain Surgery: A Simple Model for Training. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2014, 75, 241-245.	0.4	4
107	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, 682-687.	1.0	4
108	Foundations of Multiparametric Brain Tumour Imaging Characterisation Using Machine Learning. <i>Acta Neurochirurgica Supplementum</i> , 2022, 134, 183-193.	0.5	4

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109	Use of deep learning in the MRI diagnosis of Chiari malformation type I. <i>Neuroradiology</i> , 2022, , 1.	1.1	4
110	Canula-assisted endoscopy in bi-portal transphenoidal cranial base surgery: technical note. <i>Acta Neurochirurgica</i> , 2013, 155, 909-911.	0.9	3
111	Human kallikrein 10 in surgically removed human pituitary adenomas. <i>Hormones</i> , 2014, 14, 272-9.	0.9	3
112	Histological Fractal-Based Classification of Brain Tumors. <i>Springer Series in Computational Neuroscience</i> , 2016, , 371-391.	0.3	3
113	How I do it: 3D exoscopic endoscope-assisted microvascular decompression. <i>Acta Neurochirurgica</i> , 2019, 161, 1443-1447.	0.9	3
114	Delayed Contralateral Trigeminal Neuralgia After Microvascular Decompression and Postoperative Changes in Venous Outflow. <i>World Neurosurgery</i> , 2020, 140, 107-108.	0.7	3
115	Biomarkers of pituitary carcinomas. <i>Expert Review of Endocrinology and Metabolism</i> , 2016, 11, 253-261.	1.2	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" <i>World Neurosurgery</i> , 2019, 127, 652.	0.7	2
117	Paulus of Aegina and the Historical Origins of Spine Surgery. <i>World Neurosurgery</i> , 2020, 133, 291-301.	0.7	2
118	Assessment of eye-tracking scanpath outliers using fractal geometry. <i>Heliyon</i> , 2021, 7, e07616.	1.4	2
119	Fractal Analysis in Neurological Diseases. <i>Springer Series in Computational Neuroscience</i> , 2016, , 199-211.	0.3	2
120	Computational Fractal-Based Analysis of Brain Tumor Microvascular Networks. <i>Springer Series in Computational Neuroscience</i> , 2016, , 393-411.	0.3	2
121	Do neurosurgeons follow the guidelines? A world-based survey on severe traumatic brain injury. <i>Journal of Neurosurgical Sciences</i> , 2021, 65, 465-473.	0.3	2
122	Fractal Geometry Meets Computational Intelligence: Future Perspectives. <i>Springer Series in Computational Neuroscience</i> , 2016, , 567-580.	0.3	1
123	Fractals in Neuroimaging. <i>Springer Series in Computational Neuroscience</i> , 2016, , 295-309.	0.3	1
124	Fractal-Based Analysis of Arteriovenous Malformations (AVMs). <i>Springer Series in Computational Neuroscience</i> , 2016, , 279-293.	0.3	1
125	Training in skull base surgery: a holistic perspective. <i>Journal of Neurosurgical Sciences</i> , 2017, 61, 690-691.	0.3	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. <i>Neuro-Oncology</i> , 2021, 23, vi227-vi227.	0.6	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.	0.4	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.	0.7	0
135	The Royal Australasian College of Surgeons John Mitchell Crouch Fellowship: a neurosurgical perspective. ANZ Journal of Surgery, 2021, 91, 793-794.	0.3	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.	0.4	0
139	Significant venous flow alterations following brain arteriovenous malformation Surgery: Assessment by transcranial colour duplex. Journal of Clinical Neuroscience, 2022, 99, 268-274.	0.8	0