Alessandro Perin

List of Publications by Year in Descending Order

74 papers	14,239 citations	39 h-index	80 g-index
80 ext. papers	21,155 ext. citations	12.6 avg, IF	4.32 L-index

#	Paper	IF	Citations
74	Real-time vessel segmentation and reconstruction for virtual fixtures for an active handheld microneurosurgical instrument.. *International Journal of Computer Assisted Radiology and Surgery*, **2022**, 1	3.9	1
73	Informed consent through 3D virtual reality: a randomized clinical trial. *Acta Neurochirurgica*, **2021**, 163, 301-308	3	14
72	The "STARS-CT-MADE" Study: Advanced Rehearsal and Intraoperative Navigation for Skull Base Tumors. *World Neurosurgery*, **2021**, 154, e19-e28	2.1	1
71	The "STARS-CASCADE" Study: Virtual Reality Simulation as a New Training Approach in Vascular Neurosurgery. *World Neurosurgery*, **2021**, 154, e130-e146	2.1	1
70	Navigated Intraoperative 2-Dimensional Ultrasound in High-Grade Glioma Surgery: Impact on Extent of Resection and Patient Outcome. *Operative Neurosurgery*, **2020**, 18, 363-373	1.6	13
69	EANS Basic Brain Course (ABC): combining simulation to cadaver lab for a new concept of neurosurgical training. *Acta Neurochirurgica*, **2020**, 162, 453-460	3	3
68	May we deliver neuro-oncology in difficult times (e.g. COVID-19)?. *Journal of Neuro-Oncology*, **2020**, 148, 203-205	4.8	20
67	Conservative treatment for bilateral subdural hematomas. *Journal of Neurosurgical Sciences*, **2020**, 64, 124-125	1.3	
66	Image-Guided Biopsy of Intracranial Lesions with a Small Robotic Device (iSYS1): A Prospective, Exploratory Pilot Study. *Operative Neurosurgery*, **2019**, 17, 403-412	1.6	11
65	Headache, chest pain, and multiplex cranial neuropathy. *Neurological Sciences*, **2019**, 40, 1477-1480	3.5	
64	Brain Tectal Tumors: A Flexible Approach. *Operative Neurosurgery*, **2019**, 16, E95-E100	1.6	0
63	Piezosurgery for Infra- and Supratentorial Craniotomies in Brain Tumor Surgery. *World Neurosurgery*, **2019**, 122, e1398-e1404	2.1	6
62	An Integrated TCGA Pan-Cancer Clinical Data Resource to Drive High-Quality Survival Outcome Analytics. *Cell*, **2018**, 173, 400-416.e11	56.2	1072
61	Comprehensive Characterization of Cancer Driver Genes and Mutations. *Cell*, **2018**, 173, 371-385.e18	56.2	854
60	Cell-of-Origin Patterns Dominate the Molecular Classification of 10,000 Tumors from 33 Types of Cancer. *Cell*, **2018**, 173, 291-304.e6	56.2	888
59	A Pan-Cancer Analysis of Enhancer Expression in Nearly 9000 Patient Samples. *Cell*, **2018**, 173, 386-399.e12	56.2	133
58	Perspective on Oncogenic Processes at the End of the Beginning of Cancer Genomics. *Cell*, **2018**, 173, 305-320.e10	56.2	166

57	Machine Learning Identifies Stemness Features Associated with Oncogenic Dedifferentiation. *Cell*, **2018**, 173, 338-354.e15	56.2	560
56	Oncogenic Signaling Pathways in The Cancer Genome Atlas. *Cell*, **2018**, 173, 321-337.e10	56.2	1124
55	Pathogenic Germline Variants in 10,389 Adult Cancers. *Cell*, **2018**, 173, 355-370.e14	56.2	342
54	Somatic Mutational Landscape of Splicing Factor Genes and Their Functional Consequences across 33 Cancer Types. *Cell Reports*, **2018**, 23, 282-296.e4	10.6	188
53	Driver Fusions and Their Implications in the Development and Treatment of Human Cancers. *Cell Reports*, **2018**, 23, 227-238.e3	10.6	235
52	Genomic, Pathway Network, and Immunologic Features Distinguishing Squamous Carcinomas. *Cell Reports*, **2018**, 23, 194-212.e6	10.6	146
51	Pan-Cancer Analysis of lncRNA Regulation Supports Their Targeting of Cancer Genes in Each Tumor Context. *Cell Reports*, **2018**, 23, 297-312.e12	10.6	147
50	The Cancer Genome Atlas Comprehensive Molecular Characterization of Renal Cell Carcinoma. *Cell Reports*, **2018**, 23, 313-326.e5	10.6	295
49	Spatial Organization and Molecular Correlation of Tumor-Infiltrating Lymphocytes Using Deep Learning on Pathology Images. *Cell Reports*, **2018**, 23, 181-193.e7	10.6	366
48	The Immune Landscape of Cancer. *Immunity*, **2018**, 48, 812-830.e14	32.3	1754
47	Machine Learning Detects Pan-cancer Ras Pathway Activation in The Cancer Genome Atlas. *Cell Reports*, **2018**, 23, 172-180.e3	10.6	66
46	Integrated Genomic Analysis of the Ubiquitin Pathway across Cancer Types. *Cell Reports*, **2018**, 23, 213-226.e3	10.6	56
45	Genomic and Molecular Landscape of DNA Damage Repair Deficiency across The Cancer Genome Atlas. *Cell Reports*, **2018**, 23, 239-254.e6	10.6	405
44	Molecular Characterization and Clinical Relevance of Metabolic Expression Subtypes in Human Cancers. *Cell Reports*, **2018**, 23, 255-269.e4	10.6	112
43	Systematic Analysis of Splice-Site-Creating Mutations in Cancer. *Cell Reports*, **2018**, 23, 270-281.e3	10.6	121
42	Scalable Open Science Approach for Mutation Calling of Tumor Exomes Using Multiple Genomic Pipelines. *Cell Systems*, **2018**, 6, 271-281.e7	10.6	320
41	Pan-cancer Alterations of the MYC Oncogene and Its Proximal Network across the Cancer Genome Atlas. *Cell Systems*, **2018**, 6, 282-300.e2	10.6	159
40	lncRNA Epigenetic Landscape Analysis Identifies EPIC1 as an Oncogenic lncRNA that Interacts with MYC and Promotes Cell-Cycle Progression in Cancer. *Cancer Cell*, **2018**, 33, 706-720.e9	24.3	275

39	Genomic and Functional Approaches to Understanding Cancer Aneuploidy. *Cancer Cell*, **2018**, 33, 676-689.e3	24.3	377
38	A Comprehensive Pan-Cancer Molecular Study of Gynecologic and Breast Cancers. *Cancer Cell*, **2018**, 33, 690-705.e9	24.3	277
37	USim: A New Device and App for Case-Specific, Intraoperative Ultrasound Simulation and Rehearsal in Neurosurgery. A Preliminary Study. *Operative Neurosurgery*, **2018**, 14, 572-578	1.6	13
36	Comprehensive Analysis of Alternative Splicing Across Tumors from 8,705 Patients. *Cancer Cell*, **2018**, 34, 211-224.e6	24.3	327
35	Toward Improving Safety in Neurosurgery with an Active Handheld Instrument. *Annals of Biomedical Engineering*, **2018**, 46, 1450-1464	4.7	22
34	Advanced Ultrasound Imaging in Glioma Surgery: Beyond Gray-Scale B-mode. *Frontiers in Oncology*, **2018**, 8, 576	5.3	44
33	Filling the gap between the OR and virtual simulation: a European study on a basic neurosurgical procedure. *Acta Neurochirurgica*, **2018**, 160, 2087-2097	3	15
32	A Pan-Cancer Analysis Reveals High-Frequency Genetic Alterations in Mediators of Signaling by the TGF-β Superfamily. *Cell Systems*, **2018**, 7, 422-437.e7	10.6	85
31	Comprehensive Molecular Characterization of the Hippo Signaling Pathway in Cancer. *Cell Reports*, **2018**, 25, 1304-1317.e5	10.6	152
30	Enhanced torque-based impedance control to assist brain targeting during open-skull neurosurgery: a feasibility study. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2016**, 12, 326-41	2.9	7
29	Face, Content, and Construct Validity of Brain Tumor Microsurgery Simulation Using a Human Placenta Model. *Operative Neurosurgery*, **2016**, 12, 61-67	1.6	16
28	Neurosurgical tools to extend tumor resection in hemispheric low-grade gliomas: conventional and contrast enhanced ultrasonography. *Childs Nervous System*, **2016**, 32, 1907-14	1.7	16
27	Health Literacy and Pseudoliteracy in Neurosurgery: the "C. Besta" Experience. *World Neurosurgery*, **2015**, 84, 1541-3	2.1	3
26	Comprehensive, Integrative Genomic Analysis of Diffuse Lower-Grade Gliomas. *New England Journal of Medicine*, **2015**, 372, 2481-98	59.2	1828
25	Intraoperative Navigated Angiosonography for Skull Base Tumor Surgery. *World Neurosurgery*, **2015**, 84, 1699-707	2.1	32
24	From Grey Scale B-Mode to Elastosonography: Multimodal Ultrasound Imaging in Meningioma Surgery-Pictorial Essay and Literature Review. *BioMed Research International*, **2015**, 2015, 925729	3	36
23	Fusion imaging for intra-operative ultrasound-based navigation in neurosurgery. *Journal of Ultrasound*, **2014**, 17, 243-51	3.4	47
22	Intraoperative ultrasound in spinal tumor surgery. *Journal of Ultrasound*, **2014**, 17, 195-202	3.4	26

21	Intraoperative cerebral glioma characterization with contrast enhanced ultrasound. *BioMed Research International*, **2014**, 2014, 484261	3	57
20	Intraoperative contrast-enhanced ultrasound for brain tumor surgery. *Neurosurgery*, **2014**, 74, 542-52; discussion 552	3.2	133
19	Craniotomy vs. craniectomy for posterior fossa tumors: a prospective study to evaluate complications after surgery. *Acta Neurochirurgica*, **2013**, 155, 2281-6	3	32
18	Transcription factors FOXG1 and Groucho/TLE promote glioblastoma growth. *Nature Communications*, **2013**, 4, 2956	17.4	43
17	Practical assessment of preoperative functional mapping techniques: navigated transcranial magnetic stimulation and functional magnetic resonance imaging. *Neurological Sciences*, **2013**, 34, 1551-7	2.5	19
16	Conus medullaris-cauda arteriovenous malformation and Klippel-Trenaunay syndrome: what is the treatment goal?. *Neurologia Medico-Chirurgica*, **2013**, 53, 110-4	2.6	6
15	Outcome and clinico-biological characteristics of advanced breast cancer patients with surgically resected brain metastases: a multidisciplinary approach. *Ecancermedicalscience*, **2013**, 7, 309	2.7	1
14	Application of an aviation model of incident reporting and investigation to the neurosurgical scenario: method and preliminary data. *Neurosurgical Focus*, **2012**, 33, E7	4.2	16
13	A preliminary study of aquaporin 1 immunolocalization in chronic subdural hematoma membranes. *Journal of Clinical Neuroscience*, **2010**, 17, 905-7	2.2	11
12	Barometric changes in patients with intracranial lesions: can they dive and fly?. *World Neurosurgery*, **2009**, 71, 368-71, discussion 371		5
11	An unworthy successorR answer. In reply to Prof AusmanR editorial entitled "Why we misunderstand the younger generations". *World Neurosurgery*, **2008**, 69, 434-5		1
10	Inhibition of cortical neuron differentiation by Groucho/TLE1 requires interaction with WRPW, but not Eh1, repressor peptides. *Journal of Biological Chemistry*, **2008**, 283, 24881-8	5.4	28
9	Decompressive craniectomy in a case of intractable intracranial hypertension due to pneumococcal meningitis. *Acta Neurochirurgica*, **2008**, 150, 837-42; discussion 842	3	22
8	Activation of endogenous neural stem cells in the adult human brain following subarachnoid hemorrhage. *Journal of Neuroscience Research*, **2007**, 85, 1647-55	4.4	47
7	Ventricular cerebrospinal fluid melatonin concentrations investigated with an endoscopic technique. *Journal of Pineal Research*, **2007**, 42, 113-8	10.4	32
6	A study of tryptophan metabolism via serotonin in ventricular cerebrospinal fluid in HIV-1 infection using a neuroendoscopic technique. *Current HIV Research*, **2007**, 5, 267-72	1.3	4
5	Endoscopic anatomy of the cerebral aqueduct. *Operative Neurosurgery*, **2007**, 61, 1-5; discussion 5-6	1.6	18
4	Study of tryptophan metabolism via serotonin in cerebrospinal fluid of patients with noncommunicating hydrocephalus using a new endoscopic technique. *Journal of Neuroscience Research*, **2006**, 84, 683-91	4.4	8

3	Cooperative study by the Italian neuroendoscopy group on the treatment of 61 colloid cysts. *Childs Nervous System*, **2006**, 22, 1263-7	1.7	76
2	Endoscopic treatment of brain abscesses. *Childs Nervous System*, **2006**, 22, 1447-50	1.7	28
1	Endoscopic selective sampling of human ventricular CSF: a new perspective. *Minimally Invasive Neurosurgery*, **2004**, 47, 350-4		10