

# Zoltan Patay

## List of Publications by Year in descending order

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111  
papers

3,556  
citations

201674

27  
h-index

149698

56  
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113  
all docs

113  
docs citations

113  
times ranked

5026  
citing authors

#	ARTICLE	IF	CITATIONS
1	Subtypes of medulloblastoma have distinct developmental origins. <i>Nature</i> , 2010, 468, 1095-1099.	27.8	710
2	Selumetinib in paediatric patients with BRAF-aberrant or neurofibromatosis type 1-associated recurrent, refractory, or progressive low-grade glioma: a multicentre, phase 2 trial. <i>Lancet Oncology</i> , The, 2019, 20, 1011-1022.	10.7	315
3	Histone H3.3 K27M Accelerates Spontaneous Brainstem Glioma and Drives Restricted Changes in Bivalent Gene Expression. <i>Cancer Cell</i> , 2019, 35, 140-155.e7.	16.8	194
4	Risk-adapted therapy for young children with medulloblastoma (SJYC07): therapeutic and molecular outcomes from a multicentre, phase 2 trial. <i>Lancet Oncology</i> , The, 2018, 19, 768-784.	10.7	151
5	Proximal dentatothalamocortical tract involvement in posterior fossa syndrome. <i>Brain</i> , 2009, 132, 3087-3095.	7.6	148
6	Cerebellocerebral Diaschisis Is the Likely Mechanism of Postsurgical Posterior Fossa Syndrome in Pediatric Patients with Midline Cerebellar Tumors. <i>American Journal of Neuroradiology</i> , 2010, 31, 288-294.	2.4	104
7	Role of NAD+ in regulating cellular and metabolic signaling pathways. <i>Molecular Metabolism</i> , 2021, 49, 101195.	6.5	104
8	Diffusion-weighted MR imaging in leukodystrophies. <i>European Radiology</i> , 2005, 15, 2284-2303.	4.5	100
9	MRI as a central component of clinical trials analysis in brainstem glioma: a report from the Pediatric Brain Tumor Consortium (PBTC). <i>Neuro-Oncology</i> , 2011, 13, 417-427.	1.2	89
10	MR Imaging Characteristics of Wntless-Type "Subgroup Pediatric Medulloblastoma. <i>American Journal of Neuroradiology</i> , 2015, 36, 2386-2393.	2.4	71
11	Quantitative Diffusion-Weighted and Dynamic Susceptibility-Weighted Contrast-Enhanced Perfusion MR Imaging Analysis of T2 Hypointense Lesion Components in Pediatric Diffuse Intrinsic Pontine Glioma. <i>American Journal of Neuroradiology</i> , 2011, 32, 315-322.	2.4	62
12	Response assessment in diffuse intrinsic pontine glioma: recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) working group. <i>Lancet Oncology</i> , The, 2020, 21, e330-e336.	10.7	59
13	Three-dimensional susceptibility-weighted imaging and two-dimensional T2*-weighted gradient-echo imaging of intratumoral hemorrhages in pediatric diffuse intrinsic pontine glioma. <i>Neuroradiology</i> , 2010, 52, 1167-1177.	2.2	57
14	Cerebral Neoplasms in L-2 Hydroxyglutaric Aciduria: 3 New Cases and Meta-Analysis of Literature Data. <i>American Journal of Neuroradiology</i> , 2012, 33, 940-943.	2.4	56
15	Lack of Correlation between the Histologic and Magnetic Resonance Imaging Results of Optic Nerve Involvement in Eyes Primarily Enucleated for Retinoblastoma. <i>Ophthalmology</i> , 2009, 116, 1558-1563.	5.2	50
16	Glutaric Aciduria Type II: Observations in Seven Patients With Neonatal- and Late-Onset Disease. <i>Journal of Perinatology</i> , 2000, 20, 120-128.	2.0	48
17	Clinico-radiologic characteristics of long-term survivors of diffuse intrinsic pontine glioma. <i>Journal of Neuro-Oncology</i> , 2013, 114, 339-344.	2.9	48
18	Recurrent intrathecal methotrexate induced neurotoxicity in an adolescent with acute lymphoblastic leukemia: Serial clinical and radiologic findings. <i>Pediatric Blood and Cancer</i> , 2009, 52, 293-295.	1.5	47

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19	Surgical management of tumors producing the thalamopeduncular syndrome of childhood. <i>Journal of Neurosurgery: Pediatrics</i> , 2011, 7, 589-595.	1.3	44
20	MR Imaging Evaluation of Inferior Olivary Nuclei: Comparison of Postoperative Subjects with and without Posterior Fossa Syndrome. <i>American Journal of Neuroradiology</i> , 2014, 35, 797-802.	2.4	43
21	Intracranial vascular malformations. <i>European Radiology</i> , 1998, 8, 685-690.	4.5	39
22	Hyperornithinemiaâ€“hyperammonemiaâ€“homocitrullinuria syndrome with stroke-like imaging presentation: Clinical, biochemical and molecular analysis. <i>Journal of the Neurological Sciences</i> , 2008, 264, 187-194.	0.6	38
23	Cerebellar mutism syndrome. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 155, 273-288.	1.8	36
24	Imaging Changes in Very Young Children with Brain Tumors Treated with Proton Therapy and Chemotherapy. <i>American Journal of Neuroradiology</i> , 2013, 34, 446-450.	2.4	35
25	Postoperative posterior fossa syndrome: unraveling the etiology and underlying pathophysiology by using magnetic resonance imaging. <i>Child's Nervous System</i> , 2015, 31, 1853-1858.	1.1	35
26	Relevance of Molecular Groups in Children with Newly Diagnosed Atypical Teratoid Rhabdoid Tumor: Results from Prospective St. Jude Multi-institutional Trials. <i>Clinical Cancer Research</i> , 2021, 27, 2879-2889.	7.0	35
27	Clinical features, neurologic recovery, and risk factors of postoperative posterior fossa syndrome and delayed recovery: a prospective study. <i>Neuro-Oncology</i> , 2021, 23, 1586-1596.	1.2	35
28	Clinical, imaging, and molecular analysis of pediatric pontine tumors lacking characteristic imaging features of DIPG. <i>Acta Neuropathologica Communications</i> , 2020, 8, 57.	5.2	32
29	18 Fluoro-2-deoxyglucose ( 18 FDG) PET scan of the brain in propionic acidemia: clinical and MRI correlations. <i>Brain and Development</i> , 1999, 21, 312-317.	1.1	27
30	â€œOccultâ€ post-contrast signal enhancement in pediatric diffuse intrinsic pontine glioma is the MRI marker of angiogenesis?. <i>Neuroradiology</i> , 2014, 56, 405-412.	2.2	25
31	Delayed methotrexate excretion in infants and young children with primary central nervous system tumors and postoperative fluid collections. <i>Cancer Chemotherapy and Pharmacology</i> , 2015, 75, 27-35.	2.3	25
32	Neurometabolic diseases of childhood. <i>Pediatric Radiology</i> , 2015, 45, 473-484.	2.0	23
33	18Fluoro-2-deoxyglucose (18FDG) PET scan of the brain in glutaric aciduria type 1: clinical and MRI correlations. <i>Brain and Development</i> , 1998, 20, 295-301.	1.1	22
34	Magnetic resonance imaging features of meningiomas in children and young adults: a retrospective analysis. <i>Journal of Neuroradiology</i> , 2012, 39, 218-226.	1.1	22
35	Successful treatment of early detected trilateral retinoblastoma using standard infant brain tumor therapy. <i>Pediatric Blood and Cancer</i> , 2010, 55, 570-572.	1.5	21
36	Extra-Axial Cavernous Hemangioma: Two Case Reports. <i>Skull Base</i> , 2001, 11, 287-296.	0.4	20

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37	Attenuation of Cerebral Venous Contrast in Susceptibility-Weighted Imaging of Spontaneously Breathing Pediatric Patients Sedated with Propofol. <i>American Journal of Neuroradiology</i> , 2010, 31, 901-906.	2.4	20
38	Accelerated myelination with motor system involvement in a neonate with immediate postnatal onset of seizures and hemimegalencephaly. <i>Epilepsy and Behavior</i> , 2011, 22, 391-394.	1.7	20
39	Successive distinct high-grade gliomas in 2-hydroxyglutaric aciduria. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 273-277.	3.6	20
40	A comparative study of the anatomical, radiological and therapeutic features of the lumbar facet joints. <i>Neuroradiology</i> , 1992, 34, 257-261.	2.2	19
41	Cerebral fluorine-18 labeled 2-fluoro-2-deoxyglucose positron emission tomography (FDG PET), MRI, and clinical observations in a patient with infantile GM1 gangliosidosis. <i>Brain and Development</i> , 1999, 21, 559-562.	1.1	19
42	Fanconi anemia and biallelic <i>BRCA2</i> mutation diagnosed in a young child with an embryonal CNS tumor. <i>Pediatric Blood and Cancer</i> , 2009, 53, 1140-1142.	1.5	19
43	Mesial Temporal Sclerosis in a Cohort of Children With SCN1A Gene Mutation. <i>Journal of Child Neurology</i> , 2012, 27, 893-897.	1.4	19
44	The effects of propofol on cerebral perfusion MRI in children. <i>Neuroradiology</i> , 2013, 55, 1049-1056.	2.2	19
45	An atypical infectious complication of anterior cervical surgery. <i>Neuroradiology</i> , 1997, 39, 278-281.	2.2	18
46	Clinical and cerebral fdg pet scan in a patient with krabbe's disease. <i>Pediatric Neurology</i> , 2000, 22, 44-47.	2.1	16
47	Postoperative Intraspinial Subdural Collections after Pediatric Posterior Fossa Tumor Resection: Incidence, Imaging, and Clinical Features. <i>American Journal of Neuroradiology</i> , 2015, 36, 993-999.	2.4	16
48	Aneurysmal Bone Cyst Involving the Skull Base: Report of Three Cases. <i>Skull Base</i> , 1999, 9, 145-148.	0.4	15
49	18Fluoro-2-deoxyglucose (18FDG) PET scan of the brain in type IV 3-methylglutaconic aciduria: clinical and MRI correlations. <i>Brain and Development</i> , 1999, 21, 24-29.	1.1	15
50	Incidental detection of late subsequent intracranial neoplasms with magnetic resonance imaging among adult survivors of childhood cancer. <i>Journal of Cancer Survivorship</i> , 2014, 8, 329-335.	2.9	15
51	Association Between Brain Substructure Dose and Cognitive Outcomes in Children With Medulloblastoma Treated on SJMB03: A Step Toward Substructure-Informed Planning. <i>Journal of Clinical Oncology</i> , 2022, 40, 83-95.	1.6	15
52	Alexander disease: An important mimicker of focal brainstem glioma. <i>Pediatric Blood and Cancer</i> , 2009, 53, 1355-1356.	1.5	14
53	Regional White Matter Anisotropy and Reading Ability in Patients Treated for Pediatric Embryonal Tumors. <i>Brain Imaging and Behavior</i> , 2010, 4, 132-140.	2.1	14
54	Quantitative Longitudinal Evaluation of Diaschisis-Related Cerebellar Perfusion and Diffusion Parameters in Patients with Supratentorial Hemispheric High-Grade Gliomas After Surgery. <i>Cerebellum</i> , 2014, 13, 580-587.	2.5	14

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55	Discrepant longitudinal volumetric and metabolic evolution of diffuse intrinsic Pontine gliomas during treatment: implications for current response assessment strategies. <i>Neuroradiology</i> , 2016, 58, 1027-1034.	2.2	14
56	Measurement of Projections Between Dentate Nucleus and Contralateral Frontal Cortex in Human Brain Via Diffusion Tensor Tractography. <i>Cerebellum</i> , 2019, 18, 761-769.	2.5	14
57	Advanced ADC Histogram, Perfusion, and Permeability Metrics Show an Association with Survival and Pseudoprogession in Newly Diagnosed Diffuse Intrinsic Pontine Glioma: A Report from the Pediatric Brain Tumor Consortium. <i>American Journal of Neuroradiology</i> , 2020, 41, 718-724.	2.4	14
58	Sphingolipid Activator Protein B Deficiency: Report of 9 Saudi Patients and Review of the Literature. <i>Journal of Child Neurology</i> , 2009, 24, 1513-1519.	1.4	12
59	Infiltrative cerebellar ganglioglioma: conventional and advanced MRI, proton MR spectroscopic, and FDG PET findings in an 18-month-old child. <i>Clinical Radiology</i> , 2011, 66, 194-201.	1.1	12
60	Atypical teratoid/rhabdoid tumor (ATRT) arising from the 3rd cranial nerve in infants: a clinical-radiological entity?. <i>Journal of Neuro-Oncology</i> , 2015, 124, 175-183.	2.9	12
61	Rapid and fulminant leptomeningeal spread following radiotherapy in diffuse intrinsic pontine glioma. <i>Pediatric Blood and Cancer</i> , 2017, 64, e26416.	1.5	11
62	MRI Patterns of Extrapontine Lesion Extension in Diffuse Intrinsic Pontine Gliomas. <i>American Journal of Neuroradiology</i> , 2020, 41, 323-330.	2.4	11
63	PRIMARY T-CELL LYMPHOMA OF THE BRAIN IN CHILDREN: A Case Report and Literature Review. <i>Pediatric Hematology and Oncology</i> , 2000, 17, 341-343.	0.8	10
64	Elevated Cerebral Blood Volume Contributes to Increased FLAIR Signal in the Cerebral Sulci of Propofol-Sedated Children. <i>American Journal of Neuroradiology</i> , 2014, 35, 1574-1579.	2.4	10
65	Childhood Medulloblastoma Revisited. <i>Topics in Magnetic Resonance Imaging</i> , 2018, 27, 479-502.	1.2	10
66	Chromosome arm 1q gain is an adverse prognostic factor in localized and diffuse leptomeningeal glioneuronal tumors with BRAF gene fusion and 1p deletion. <i>Acta Neuropathologica</i> , 2019, 137, 179-181.	7.7	10
67	Pediatric Posterior Fossa Medulloblastoma: The Role of Diffusion Imaging in Identifying Molecular Groups. <i>Journal of Neuroimaging</i> , 2020, 30, 503-511.	2.0	9
68	MR Imaging Workup of Inborn Errors of Metabolism of Early Postnatal Onset. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2011, 19, 733-759.	1.1	8
69	Isochromosome 17q, <i>MYC</i> amplification and large cell/anaplastic phenotype in a case of medulloblastoma with extracranial metastases. <i>Pediatric Blood and Cancer</i> , 2012, 59, 561-564.	1.5	8
70	Radiohistogenomics of pediatric low-grade neuroepithelial tumors. <i>Neuroradiology</i> , 2021, 63, 1185-1213.	2.2	8
71	Spontaneous anaplasia in pilocytic astrocytoma of cerebellum. <i>British Journal of Neurosurgery</i> , 2003, 17, 250-252.	0.8	7
72	MRI Evaluation of Non-Necrotic T2-Hyperintense Foci in Pediatric Diffuse Intrinsic Pontine Glioma. <i>American Journal of Neuroradiology</i> , 2016, 37, 1930-1937.	2.4	7

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73	Measurable Supratentorial White Matter Volume Changes in Patients with Diffuse Intrinsic Pontine Glioma Treated with an Anti-Vascular Endothelial Growth Factor Agent, Steroids, and Radiation. <i>American Journal of Neuroradiology</i> , 2017, 38, 1235-1241.	2.4	7
74	Defining Optimal Target Volumes of Conformal Radiation Therapy for Diffuse Intrinsic Pontine Glioma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 838-847.	0.8	7
75	Phase II study of alisertib as a single agent for treating recurrent or progressive atypical teratoid/rhabdoid tumor. <i>Neuro-Oncology</i> , 0, , .	1.2	7
76	Posttreatment DSC-MRI is Predictive of Early Treatment Failure in Children with Supratentorial High-Grade Glioma Treated with Erlotinib. <i>Clinical Neuroradiology</i> , 2018, 28, 393-400.	1.9	6
77	Creation of a successful multidisciplinary course in pediatric neurooncology with a systematic approach to curriculum development. <i>Cancer</i> , 2021, 127, 1126-1133.	4.1	6
78	Fludarabine-induced severe necrotizing leukoencephalopathy in pediatric hematopoietic cell transplantation. <i>Bone Marrow Transplantation</i> , 2013, 48, 729-731.	2.4	5
79	Unusual magnetic resonance imaging presentation of post-BMT cerebral toxoplasmosis masquerading as meningoencephalitis and ventriculitis. <i>Bone Marrow Transplantation</i> , 2016, 51, 1533-1536.	2.4	5
80	Phase I study using crenolanib to target PDGFR kinase in children and young adults with newly diagnosed DIPG or recurrent high-grade glioma, including DIPG. <i>Neuro-Oncology Advances</i> , 2021, 3, vdb179.	0.7	5
81	Congenital supratentorial meningeal arteriovenous malformation with hemangioma and massive arachnoid cell hyperplasia. <i>Child's Nervous System</i> , 2005, 21, 995-999.	1.1	4
82	Phase II study of alisertib as a single agent in recurrent or progressive atypical teratoid rhabdoid tumors.. <i>Journal of Clinical Oncology</i> , 2020, 38, 10542-10542.	1.6	4
83	Early Complications of Petrous Bone Fractures. <i>The Neuroradiology Journal</i> , 1995, 8, 855-866.	0.1	3
84	Normal fluorine-18-labelled 2-fluoro-2-deoxyglucose positron emission tomography and magnetic resonance imaging of the brain in Wolman disease. <i>Journal of Inherited Metabolic Disease</i> , 1999, 22, 846-848.	3.6	3
85	Treatment-Related Noncontiguous Radiologic Changes in Children With Diffuse Intrinsic Pontine Glioma Treated With Expanded Irradiation Fields and Antiangiogenic Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, 1295-1305.	0.8	3
86	Cerebral Fluorine-18 Fluorodeoxyglucose Positron Emission Tomographic Findings in X-Linked Adrenoleukodystrophy. <i>Clinical Nuclear Medicine</i> , 1999, 24, 364-365.	1.3	3
87	ADC Histogram Analysis of Pediatric Low-Grade Glioma Treated with Selumetinib: A Report from the Pediatric Brain Tumor Consortium. <i>American Journal of Neuroradiology</i> , 2022, 43, 455-461.	2.4	3
88	Proton magnetic resonance spectroscopy detects cerebral metabolic derangement in a mouse model of brain coenzyme a deficiency. <i>Journal of Translational Medicine</i> , 2022, 20, 103.	4.4	3
89	Magnetic Resonance Imaging of Central Nervous System Involvement in Primary Sjögren's Syndrome. <i>The Neuroradiology Journal</i> , 1998, 11, 51-54.	0.1	2
90	The Cerebellum in Amino and Organic Acidurias. <i>Neuroradiology Journal</i> , 2007, 20, 439-448.	1.2	2

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91	Fast frequency-sweep spectroscopic imaging with an ultra-low flip angle. Scientific Reports, 2016, 6, 30066.	3.3	2
92	Neuroimaging Findings in Children with Constitutional Mismatch Repair Deficiency Syndrome. American Journal of Neuroradiology, 2020, 41, 904-910.	2.4	2
93	Handedness switching as a presenting sign for pediatric low-grade gliomas: An insight into brain plasticity from a short case series. Journal of Pediatric Rehabilitation Medicine, 2021, 14, 31-36.	0.5	2
94	Alexander disease: An important mimicker of focal brainstem glioma "response. Pediatric Blood and Cancer, 2010, 54, 487-487.	1.5	1
95	New Concepts in the Imaging of Pediatric Brain Tumors: The Revival of Age-old Real Estate Principles. Current Radiology Reports, 2016, 4, 1.	1.4	1
96	Abstract 3448: Subtypes of medulloblastoma have distinct developmental origins. , 2011, , .		1
97	Brain magnetic resonance imaging and proton MR spectroscopic findings after metabolic crisis in 3-methylcrotonylglycinuria. Annals of Saudi Medicine, 2015, 35, 64-68.	1.1	1
98	PAPILLARY PINEOCYTOMA. Journal of Neuropathology and Experimental Neurology, 1998, 57, 521.	1.7	1
99	MEDB-78. Unified rhombic lip origins of Group 3 and Group 4 medulloblastoma. Neuro-Oncology, 2022, 24, i124-i125.	1.2	1
100	MR Evaluation of Dural Venous Sinus Invasion by Intracranial Meningiomas a Combined MRI-MRA Approach. The Neuroradiology Journal, 1998, 11, 91-94.	0.1	0
101	Applied MR Neuro-Angiography: A CD-ROM Tutorial. The Neuroradiology Journal, 1999, 12, 221-222.	0.1	0
102	Pattern Recognition in Metabolic Diseases. The Neuroradiology Journal, 2004, 17, 437-445.	0.1	0
103	Localized acalvaria with craniosynostosis. Clinical Dysmorphology, 2008, 17, 165-168.	0.3	0
104	346 First in Pediatrics Phase I Study of Crenolanib Besylate (CP-868, 596 "26) Administered During and After Radiation Therapy (RT) in Newly-diagnosed Diffuse Intrinsic Pontine Glioma (DIPG) and Recurrent High Grade Glioma, Including DIPG (HGG). European Journal of Cancer, 2012, 48, 105-106.	2.8	0
105	Authors'™ Response to Correspondence on "Mesial Temporal Sclerosis in a Cohort of Children With SCN1A Gene Mutation". Journal of Child Neurology, 2013, 28, 542-542.	1.4	0
106	HG-60TREATMENT-RELATED NON-CONTIGUOUS RADIOLOGICAL CHANGES IN CHILDREN WITH DIFFUSE INTRINSIC PONTINE GLIOMA TREATED WITH EXPANDED IRRADIATION FIELDS AND ANTIANGIOGENIC THERAPY. Neuro-Oncology, 2016, 18, iii61.3-iii61.	1.2	0
107	PCM-01DIFFERENTIAL RESPONSES OF MURINE MODELS OF SUPRATENTORIAL EPENDYMOMA TO GEMCITABINE AS MEASURED BY MRI AND PET-CT. Neuro-Oncology, 2016, 18, iii139.1-iii139.	1.2	0
108	Reduced Intensity Hematopoietic Cell Transplantation Improves Cerebral Hemodynamics in Children with Sickle Cell Disease. Blood, 2021, 138, 125-125.	1.4	0

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109	EPCO-26. INTEGRATIVE MULTI-OMICS IDENTIFIES CONVERGING DEVELOPMENTAL ORIGINS OF DISTINCT MEDULLOBLASTOMA SUBGROUPS. <i>Neuro-Oncology</i> , 2021, 23, vi7-vi7.	1.2	0
110	MRI sequences and interslice gap influence leptomenigeal metastasis detection in children with brain tumors. <i>Neuroradiology</i> , 2022, , 1.	2.2	0
111	MEDB-29. Application of Rotterdam Post-Operative Cerebellar Mutism Syndrome Prediction Model to Patients Operated for Medulloblastoma in a Single Institution. <i>Neuro-Oncology</i> , 2022, 24, i111-i111.	1.2	0