Stephen J Price

List of Publications by Year in descending order

99 papers	7,349 citations	109137 35 h-index	56606 83 g-index
109 all docs	109 docs citations	109 times ranked	8960 citing authors

#	Article	IF	Citations
1	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	5.4	3,589
2	Use of drains versus no drains after burr-hole evacuation of chronic subdural haematoma: a randomised controlled trial. Lancet, The, 2009, 374, 1067-1073.	6.3	564
3	Diffusion Tensor Imaging of Brain Tumours at 3T: A Potential Tool for Assessing White Matter Tract Invasion?. Clinical Radiology, 2003, 58, 455-462.	0.5	224
4	In vivo assessment of high-grade glioma biochemistry using microdialysis: a study of energy-related molecules, growth factors and cytokines. Journal of Neuro-Oncology, 2010, 97, 11-23.	1.4	154
5	Detection and evaluation of intracranial aneurysms with 16-row multislice CT angiography. Clinical Radiology, 2005, 60, 565-572.	0.5	142
6	A map of transcriptional heterogeneity and regulatory variation in human microglia. Nature Genetics, 2021, 53, 861-868.	9.4	115
7	Multi-Parametric MRI and Texture Analysis to Visualize Spatial Histologic Heterogeneity and Tumor Extent in Glioblastoma. PLoS ONE, 2015, 10, e0141506.	1.1	104
8	Predicting patterns of glioma recurrence using diffusion tensor imaging. European Radiology, 2007, 17, 1675-1684.	2.3	102
9	Fluorescence-guided surgical sampling of glioblastoma identifies phenotypically distinct tumour-initiating cell populations in the tumour mass and margin. British Journal of Cancer, 2012, 107, 462-468.	2.9	99
10	Tissue signature characterisation of diffusion tensor abnormalities in cerebral gliomas. European Radiology, 2004, 14, 1909-17.	2.3	92
11	Quantitative imaging biomarkers in neuro-oncology. Nature Reviews Clinical Oncology, 2009, 6, 445-454.	12.5	92
12	Imaging biomarkers of brain tumour margin and tumour invasion. British Journal of Radiology, 2011, 84, S159-S167.	1.0	83
13	Radiotherapy as an adjuvant in the management of intracranial meningiomas: are we practising evidence-based medicine?. British Journal of Neurosurgery, 2008, 22, 520-528.	0.4	78
14	Diffusion Tensor Imaging: Possible Implications for Radiotherapy Treatment Planning of Patients with High-grade Glioma. Clinical Oncology, 2005, 17, 581-590.	0.6	69
15	Graph theory analysis of complex brain networks: new concepts in brain mapping applied to neurosurgery. Journal of Neurosurgery, 2016, 124, 1665-1678.	0.9	63
16	Imaging regional variation of cellular proliferation in gliomas using 3â€²-deoxy-3â€²-[18F]fluorothymidine positron-emission tomography: an image-guided biopsy study. Clinical Radiology, 2009, 64, 52-63.	0.5	55
17	Imaging normal pressure hydrocephalus: theories, techniques, and challenges. Neurosurgical Focus, 2016, 41, E11.	1.0	55
18	Extent of resection of peritumoral diffusion tensor imagingâ€“detected abnormality as a predictor of survival in adult glioblastoma patients. Journal of Neurosurgery, 2017, 126, 234-241.	0.9	54

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19	Enhanced visualization and quantification of magnetic resonance diffusion tensor imaging using thep:qtensor decomposition. British Journal of Radiology, 2006, 79, 101-109.	1.0	51
20	Less Invasive Phenotype Found in Isocitrate Dehydrogenaseâ€“mutated Glioblastomas than in Isocitrate Dehydrogenase Wild-Type Glioblastomas: A Diffusion-Tensor Imaging Study. Radiology, 2017, 283, 215-221.	3.6	50
21	An integrated genomic analysis of anaplastic meningioma identifies prognostic molecular signatures. Scientific Reports, 2018, 8, 13537.	1.6	49
22	Correlation of MR Relative Cerebral Blood Volume Measurements with Cellular Density and Proliferation in High-Grade Gliomas: An Image-Guided Biopsy Study. American Journal of Neuroradiology, 2011, 32, 501-506.	1.2	48
23	Contributions to Drug Resistance in Glioblastoma Derived from Malignant Cells in the Sub-Ependymal Zone. Cancer Research, 2015, 75, 194-202.	0.4	48
24	Connectome analysis for pre-operative brain mapping in neurosurgery. British Journal of Neurosurgery, 2016, 30, 506-517.	0.4	48
25	Multiparametric MR Imaging of Diffusion and Perfusion in Contrast-enhancing and Nonenhancing Components in Patients with Glioblastoma. Radiology, 2017, 284, 180-190.	3.6	48
26	The genome of the sparganosis tapeworm Spirometra erinaceieuropaeiisolated from the biopsy of a migrating brain lesion. Genome Biology, 2014, 15, 510.	3.8	47
27	The role of advanced MR imaging in understanding brain tumour pathology. British Journal of Neurosurgery, 2007, 21, 562-575.	0.4	44
28	Prevention of radiotherapy-induced neurocognitive dysfunction in survivors of paediatric brain tumours: the potential role of modern imaging and radiotherapy techniques. Lancet Oncology, The, 2017, 18, e91-e100.	5.1	43
29	ASSESSMENT OF ZERO DRIFT IN THE CODMAN INTRACRANIAL PRESSURE MONITOR. Neurosurgery, 2009, 64, 94-99.	0.6	42
30	Diagnostic Accuracy of Neuroimaging to Delineate Diffuse Gliomas within the Brain: A Meta-Analysis. American Journal of Neuroradiology, 2017, 38, 1884-1891.	1.2	42
31	High grade glioma: Imaging combined with pathological grade defines management and predicts prognosis. Radiotherapy and Oncology, 2007, 85, 371-378.	0.3	41
32	Implementation of neuro-oncology service reconfiguration in accordance with NICE guidance provides enhanced clinical care for patients with glioblastoma multiforme. British Journal of Cancer, 2011, 104, 1810-1815.	2.9	41
33	Corticosteroid-use in primary and secondary brain tumour patients: a review. Journal of Neuro-Oncology, 2012, 106, 449-459.	1.4	41
34	Multimodal MRI can identify perfusion and metabolic changes in the invasive margin of glioblastomas. Journal of Magnetic Resonance Imaging, 2016, 43, 487-494.	1.9	41
35	Characterizing tumor invasiveness of glioblastoma using multiparametric magnetic resonance imaging. Journal of Neurosurgery, 2020, 132, 1465-1472.	0.9	39
36	Functional connectivity networks for preoperative brain mapping in neurosurgery. Journal of Neurosurgery, 2016, 126, 1941-1950.	0.9	38

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37	Have ATLS and national transfer guidelines improved the quality of resuscitation and transfer of head-injured patients?. Injury, 2003, 34, 834-838.	0.7	37
38	Global Effects of Focal Brain Tumors on Functional Complexity and Network Robustness: A Prospective Cohort Study. Neurosurgery, 2019, 84, 1201-1213.	0.6	37
39	Diffusion tensor imaging profiles reveal specific neural tract distortion in normal pressure hydrocephalus. PLoS ONE, 2017, 12, e0181624.	1.1	34
40	Diffusion tensor invasive phenotypes can predict progression-free survival in glioblastomas. British Journal of Neurosurgery, 2013, 27, 436-441.	0.4	33
41	Advances in imaging low-grade gliomas. Advances and Technical Standards in Neurosurgery, 2010, 35, 1-34.	0.2	31
42	Current Concepts in the Surgical Management of Glioma Patients. Clinical Oncology, 2014, 26, 385-394.	0.6	29
43	Intratumoral Heterogeneity of Glioblastoma Infiltration Revealed by Joint Histogram Analysis of Diffusion Tensor Imaging. Neurosurgery, 2019, 85, 524-534.	0.6	29
44	Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. European Radiology, 2019, 29, 5559-5566.	2.3	27
45	Missed opportunities for diagnosing brain tumours in primary care: a qualitative study of patient experiences. British Journal of General Practice, 2019, 69, e224-e235.	0.7	27
46	A Neural Network Approach to Identify the Peritumoral Invasive Areas in Glioblastoma Patients by Using MR Radiomics. Scientific Reports, 2020, 10, 9748.	1.6	25
47	Detecting glioma invasion of the corpus callosum using diffusion tensor imaging. British Journal of Neurosurgery, 2004, 18, 391-395.	0.4	24
48	Multimodal MRI characteristics of the glioblastoma infiltration beyond contrast enhancement. Therapeutic Advances in Neurological Disorders, 2019, 12, 175628641984466.	1.5	23
49	Local alkylating chemotherapy applied immediately after 5-ALA guided resection of glioblastoma does not provide additional benefit. Journal of Neuro-Oncology, 2018, 136, 273-280.	1.4	22
50	Abstract 5016: The human sub-ependymal zone harbors glioblastoma precursors and represents a distinct therapeutic target.. Cancer Research, 2013, 73, 5016-5016.	0.4	21
51	Impact of COVID-19 pandemic on surgical neuro-oncology multi-disciplinary team decision making: a national survey (COVID-CNSMDT Study). BMJ Open, 2020, 10, e040898.	0.8	20
52	Early Radiotherapy Dose Response and Lack of Hypersensitivity Effect in Normal Brain Tissue: a Sequential Dynamic Susceptibility Imaging Study of Cerebral Perfusion. Clinical Oncology, 2007, 19, 577-587.	0.6	19
53	NICE guidance on the use of carmustine wafers in high grade gliomas: a national study on variation in practice. British Journal of Neurosurgery, 2012, 26, 331-335.	0.4	18
54	Intraoperative mapping of executive function using electrocorticography for patients with low-grade gliomas. Acta Neurochirurgica, 2021, 163, 1299-1309.	0.9	18

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55	Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. European Radiology, 2019, 29, 4718-4729.	2.3	17
56	Imaging Glioblastoma Metabolism by Using Hyperpolarized [1-¹³C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. Radiology Imaging Cancer, 2022, 4, .	0.7	17
57	Student-selected components in neurosurgery. British Journal of Neurosurgery, 2016, 30, 4-6.	0.4	16
58	Arachnoid Cyst of the Craniocervical Junction: Case Report. Neurosurgery, 2001, 49, 212-215.	0.6	15
59	Neuroimaging classification of progression patterns in glioblastoma: a systematic review. Journal of Neuro-Oncology, 2018, 139, 77-88.	1.4	15
60	Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. Radiotherapy and Oncology, 2019, 134, 17-24.	0.3	15
61	Multi-scale segmentation in GBM treatment using diffusion tensor imaging. Computers in Biology and Medicine, 2020, 123, 103815.	3.9	14
62	In vivoalteration of Strata valve setting by vagus nerve stimulator-activating magnet. British Journal of Neurosurgery, 2007, 21, 41-42.	0.4	13
63	Methodology of diffusion-weighted, diffusion tensor and magnetisation transfer imaging. British Journal of Radiology, 2011, 84, S121-S126.	1.0	13
64	Practical Application of Networks in Neurosurgery: Combined 3-Dimensional Printing, Neuronavigation, and Preoperative Surgical Planning. World Neurosurgery, 2020, 137, e126-e137.	0.7	13
65	Deep learning for glioblastoma segmentation using preoperative magnetic resonance imaging identifies volumetric features associated with survival. Acta Neurochirurgica, 2020, 162, 3067-3080.	0.9	12
66	Validation of a semi-automatic co-registration of MRI scans in patients with brain tumors during treatment follow-up. NMR in Biomedicine, 2016, 29, 882-889.	1.6	11
67	Glioblastoma surgery related emotion recognition deficits are associated with right cerebral hemisphere tract changes. Brain Communications, 2020, 2, fcaa169.	1.5	10
68	Repeatability of edited lactate and other metabolites in astrocytoma at 3T. Journal of Magnetic Resonance Imaging, 2012, 36, 468-475.	1.9	9
69	Subventricular Zone Involvement Characterized by Diffusion Tensor Imaging in Glioblastoma. World Neurosurgery, 2017, 105, 697-701.	0.7	9
70	Decoding the Interdependence of Multiparametric Magnetic Resonance Imaging to Reveal Patient Subgroups Correlated with Survivals. Neoplasia, 2019, 21, 442-449.	2.3	9
71	Uncommon low-grade brain tumors. Neuro-Oncology, 2019, 21, 151-166.	0.6	9
72	High Grade Glioma â€" The Arrival of the Molecular Diagnostic Era for Patients over the Age of 65 Years in the UK. Clinical Oncology, 2013, 25, 391-393.	0.6	8

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73	Assessing and monitoring intratumor heterogeneity in glioblastoma: how far has multimodal imaging come?. CNS Oncology, 2015, 4, 399-410.	1.2	8
74	BOLD Coupling between Lesioned and Healthy Brain Is Associated with Glioma Patientsâ€™ Recovery. Cancers, 2021, 13, 5008.	1.7	8
75	Brain tumor research in the United Kingdom: current perspective and future challenges. A strategy document from the NCRI Brain Tumor CSG. Neuro-Oncology Practice, 2018, 5, 10-17.	1.0	7
76	Quality improvement of neuro-oncology services: integrating the routine collection of patient-reported, health-related quality-of-life measures. Neuro-Oncology Practice, 2019, 6, 226-236.	1.0	7
77	Posttreatment Apparent Diffusion Coefficient Changes in the Periresectional Area in Patients with Glioblastoma. World Neurosurgery, 2016, 92, 159-165.	0.7	6
78	Connections, Tracts, Fractals, and the Rest: A Working Guide to Network and Connectivity Studies in Neurosurgery. World Neurosurgery, 2020, 140, 389-400.	0.7	6
79	Memory recovery in relation to default mode network impairment and neurite density during brain tumor treatment. Journal of Neurosurgery, 2022, 136, 358-368.	0.9	6
80	Assessment of neuropsychological function in brain tumor treatment: a comparison of traditional neuropsychological assessment with app-based cognitive screening. Acta Neurochirurgica, 2022, 164, 2021-2034.	0.9	6
81	Glioblastomas with oligodendroglial component have the same clinical phenotype as classical glioblastomas. British Journal of Neurosurgery, 2013, 27, 419-424.	0.4	5
82	Defining unmet clinical need across the pathway of brain tumor care: a patient and carer perspective . Cancer Management and Research, 2019, Volume 11, 2189-2202.	0.9	5
83	CovidNeuroOnc: A UK multicenter, prospective cohort study of the impact of the COVID-19 pandemic on the neuro-oncology service. Neuro-Oncology Advances, 2021, 3, vdab014.	0.4	5
84	Improvement of the Efficiency and Completeness of Neuro-Oncology Patient Referrals to a Tertiary Center Through the Implementation of an Electronic Referral System: Retrospective Cohort Study. Journal of Medical Internet Research, 2020, 22, e15002.	2.1	5
85	Management of chronic subdural haematoma â€“ Authors' reply. Lancet, The, 2010, 375, 195-196.	6.3	3
86	An Evaluation of the Tolerability and Feasibility of Combining 5-Amino-Levulinic Acid (5-ALA) with BCNU Wafers in the Surgical Management of Primary Glioblastoma. Cancers, 2021, 13, 3241.	1.7	3
87	Collaborative Learning of Images and Geometrics for Predicting Isocitrate Dehydrogenase Status of Glioma. , 2022, , .		3
88	Helicobacter pylori infection in perforated peptic ulcer disease. British Journal of Surgery, 2005, 82, 1140-1141.	0.1	2
89	BrainLab Neurosurgery Award 196â€ƒIDH-1 Mutated Glioblastomas Have a Less Invasive Phenotype Than IDH-1 Wild Type Glioblastomas. Neurosurgery, 2014, 61, 225.	0.6	2
90	Imaging Markers of Isocitrate Dehydrogenase-1 Mutations in Gliomas. Neurosurgery, 2015, 62, 166-170.	0.6	2

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91	Comparison of ventricular drain location and infusion test in hydrocephalus. Acta Neurologica Scandinavica, 2017, 135, 291-301.	1.0	2
92	Advances in Imaging Brain Cancer. , 2013, , 119-140.		2
93	Automated Feature Extraction from Diffusion Tensor Image Data for Radiotherapy Planning of Gliomas. Clinical Oncology, 2007, 19, S34.	0.6	1
94	Randomized Controlled Trial of the Use of Drains Versus No Drains after Burr Hole Evacuation of Chronic Subdural Hematoma. Neurosurgery, 2009, 65, 401.	0.6	1
95	Re-visiting the impact of the first wave of COVID-19 on neurosurgical practice and training in a large UK neurosurgery unit: a retrospective review. NIHR Open Research, 0, 2, 18.	0.0	1
96	2059. International Journal of Radiation Oncology Biology Physics, 2006, 66, S243.	0.4	0
97	Intracranial Pressure Monitoring Using the Codman MicroSensor. Neurosurgery, 2010, 67, E221.	0.6	0
98	141â€ƒPreoperative Brain Mapping in Neuro-oncology With Graph Theory Analysis of the Functional Connectome. Neurosurgery, 2015, 62, 211.	0.6	0
99	Hypopituitarism, pulmonary infiltration and a spontaneously resolving occipital mass. QJM - Monthly Journal of the Association of Physicians, 2015, 108, 147-149.	0.2	0