Stephen J Price

List of Publications by Year in Descending Order

94 papers	4,905 citations	31 h-index	69 g-index
108 ext. papers	6,139 ext. citations	5.4 avg, IF	5.04 L-index

#	Paper	IF	Citations
94	Assessment of neuropsychological function in brain tumor treatment: a comparison of traditional neuropsychological assessment with app-based cognitive screening.. *Acta Neurochirurgica*, **2022**, 1	3	2
93	BOLD Coupling between Lesioned and Healthy Brain Is Associated with Glioma PatientsSRecovery. *Cancers*, **2021**, 13,	6.6	2
92	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,	6.6	1
91	A map of transcriptional heterogeneity and regulatory variation in human microglia. *Nature Genetics*, **2021**, 53, 861-868	36.3	26
90	Intraoperative mapping of executive function using electrocorticography for patients with low-grade gliomas. *Acta Neurochirurgica*, **2021**, 163, 1299-1309	3	9
89	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	0.9	1
88	Memory recovery in relation to default mode network impairment and neurite density during brain tumor treatment. *Journal of Neurosurgery*, **2021**, 1-11	3.2	4
87	Multi-scale segmentation in GBM treatment using diffusion tensor imaging. *Computers in Biology and Medicine*, **2020**, 123, 103815	7	6
86	A Neural Network Approach to Identify the Peritumoral Invasive Areas in Glioblastoma Patients by Using MR Radiomics. *Scientific Reports*, **2020**, 10, 9748	4.9	12
85	Practical Application of Networks in Neurosurgery: Combined 3-Dimensional Printing, Neuronavigation, and Preoperative Surgical Planning. *World Neurosurgery*, **2020**, 137, e126-e137	2.1	8
84	Connections, Tracts, Fractals, and the Rest: A Working Guide to Network and Connectivity Studies in Neurosurgery. *World Neurosurgery*, **2020**, 140, 389-400	2.1	3
83	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	7.6	2
82	Glioblastoma surgery related emotion recognition deficits are associated with right cerebral hemisphere tract changes. *Brain Communications*, **2020**, 2, fcaa169	4.5	5
81	Deep learning for glioblastoma segmentation using preoperative magnetic resonance imaging identifies volumetric features associated with survival. *Acta Neurochirurgica*, **2020**, 162, 3067-3080	3	1
80	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	3	6
79	Multi-parametric and multi-regional histogram analysis of MRI: modality integration reveals imaging phenotypes of glioblastoma. *European Radiology*, **2019**, 29, 4718-4729	8	11
78	Multimodal MRI characteristics of the glioblastoma infiltration beyond contrast enhancement. *Therapeutic Advances in Neurological Disorders*, **2019**, 12, 1756286419844664	6.6	14

77	Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. *Radiotherapy and Oncology*, **2019**, 134, 17-24	5.3	2
76	Non-invasive assessment of glioma microstructure using VERDICT MRI: correlation with histology. *European Radiology*, **2019**, 29, 5559-5566	8	13
75	Missed opportunities for diagnosing brain tumours in primary care: a qualitative study of patient experiences. *British Journal of General Practice*, **2019**, 69, e224-e235	1.6	17
74	Defining unmet clinical need across the pathway of brain tumor care: a patient and carer perspective. *Cancer Management and Research*, **2019**, 11, 2189-2202	3.6	3
73	Decoding the Interdependence of Multiparametric Magnetic Resonance Imaging to Reveal Patient Subgroups Correlated with Survivals. *Neoplasia*, **2019**, 21, 442-449	6.4	6
72	Global Effects of Focal Brain Tumors on Functional Complexity and Network Robustness: A Prospective Cohort Study. *Neurosurgery*, **2019**, 84, 1201-1213	3.2	26
71	Characterizing tumor invasiveness of glioblastoma using multiparametric magnetic resonance imaging. *Journal of Neurosurgery*, **2019**, 132, 1465-1472	3.2	25
70	Intratumoral Heterogeneity of Glioblastoma Infiltration Revealed by Joint Histogram Analysis of Diffusion Tensor Imaging. *Neurosurgery*, **2019**, 85, 524-534	3.2	18
69	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	2.2	3
68	Uncommon low-grade brain tumors. *Neuro-Oncology*, **2019**, 21, 151-166	1	6
67	Neuroimaging classification of progression patterns in glioblastoma: a systematic review. *Journal of Neuro-Oncology*, **2018**, 139, 77-88	4.8	6
66	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	2.2	4
65	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	4.8	17
64	An integrated genomic analysis of anaplastic meningioma identifies prognostic molecular signatures. *Scientific Reports*, **2018**, 8, 13537	4.9	29
63	Extent of resection of peritumoral diffusion tensor imaging-detected abnormality as a predictor of survival in adult glioblastoma patients. *Journal of Neurosurgery*, **2017**, 126, 234-241	3.2	43
62	Comparison of ventricular drain location and infusion test in hydrocephalus. *Acta Neurologica Scandinavica*, **2017**, 135, 291-301	3.8	2
61	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	21.7	29
60	Multiparametric MR Imaging of Diffusion and Perfusion in Contrast-enhancing and Nonenhancing Components in Patients with Glioblastoma. *Radiology*, **2017**, 284, 180-190	20.5	38

59	Diffusion tensor imaging profiles reveal specific neural tract distortion in normal pressure hydrocephalus. *PLoS ONE*, **2017**, 12, e0181624	3.7	24
58	Functional connectivity networks for preoperative brain mapping in neurosurgery. *Journal of Neurosurgery*, **2017**, 126, 1941-1950	3.2	27
57	Diagnostic Accuracy of Neuroimaging to Delineate Diffuse Gliomas within the Brain: A Meta-Analysis. *American Journal of Neuroradiology*, **2017**, 38, 1884-1891	4.4	35
56	Subventricular Zone Involvement Characterized by Diffusion Tensor Imaging in Glioblastoma. *World Neurosurgery*, **2017**, 105, 697-701	2.1	6
55	Less Invasive Phenotype Found in Isocitrate Dehydrogenase-mutated Glioblastomas than in Isocitrate Dehydrogenase Wild-Type Glioblastomas: A Diffusion-Tensor Imaging Study. *Radiology*, **2017**, 283, 215-221	20.5	39
54	Connectome analysis for pre-operative brain mapping in neurosurgery. *British Journal of Neurosurgery*, **2016**, 30, 506-17	1	31
53	Student-selected components in neurosurgery. *British Journal of Neurosurgery*, **2016**, 30, 4-6	1	12
52	Multimodal MRI can identify perfusion and metabolic changes in the invasive margin of glioblastomas. *Journal of Magnetic Resonance Imaging*, **2016**, 43, 487-94	5.6	36
51	Graph theory analysis of complex brain networks: new concepts in brain mapping applied to neurosurgery. *Journal of Neurosurgery*, **2016**, 124, 1665-78	3.2	47
50	Validation of a semi-automatic co-registration of MRI scans in patients with brain tumors during treatment follow-up. *NMR in Biomedicine*, **2016**, 29, 882-9	4.4	6
49	Posttreatment Apparent Diffusion Coefficient Changes in the Periresectional Area in Patients with Glioblastoma. *World Neurosurgery*, **2016**, 92, 159-165	2.1	4
48	Imaging normal pressure hydrocephalus: theories, techniques, and challenges. *Neurosurgical Focus*, **2016**, 41, E11	4.2	38
47	Contributions to drug resistance in glioblastoma derived from malignant cells in the sub-ependymal zone. *Cancer Research*, **2015**, 75, 194-202	10.1	40
46	Assessing and monitoring intratumor heterogeneity in glioblastoma: how far has multimodal imaging come?. *CNS Oncology*, **2015**, 4, 399-410	4	5
45	Imaging Markers of Isocitrate Dehydrogenase-1 Mutations in Gliomas. *Neurosurgery*, **2015**, 62 Suppl 1, 166-70	3.2	2
44	Hypopituitarism, pulmonary infiltration and a spontaneously resolving occipital mass. *QJM - Monthly Journal of the Association of Physicians*, **2015**, 108, 147-9	2.7	
43	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). *IEEE Transactions on Medical Imaging*, **2015**, 34, 1993-2024	11.7	2132
42	Multi-Parametric MRI and Texture Analysis to Visualize Spatial Histologic Heterogeneity and Tumor Extent in Glioblastoma. *PLoS ONE*, **2015**, 10, e0141506	3.7	73

41	Current concepts in the surgical management of glioma patients. *Clinical Oncology*, **2014**, 26, 385-94	2.8	23
40	BrainLab Neurosurgery Award 196 IDH-1 Mutated Glioblastomas Have a Less Invasive Phenotype Than IDH-1 Wild Type Glioblastomas. *Neurosurgery*, **2014**, 61, 225	3.2	2
39	The genome of the sparganosis tapeworm Spirometra erinaceieuropaei isolated from the biopsy of a migrating brain lesion. *Genome Biology*, **2014**, 15, 510	18.3	33
38	Glioblastomas with oligodendroglial component have the same clinical phenotype as classical glioblastomas. *British Journal of Neurosurgery*, **2013**, 27, 419-24	1	5
37	Diffusion tensor invasive phenotypes can predict progression-free survival in glioblastomas. *British Journal of Neurosurgery*, **2013**, 27, 436-41	1	20
36	Abstract 5016: The human sub-ependymal zone harbors glioblastoma precursors and represents a distinct therapeutic target. **2013**,		6
35	Advances in Imaging Brain Cancer **2013**, 119-140		2
34	Corticosteroid-use in primary and secondary brain tumour patients: a review. *Journal of Neuro-Oncology*, **2012**, 106, 449-59	4.8	35
33	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, 331-5	1	12
32	Repeatability of edited lactate and other metabolites in astrocytoma at 3T. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 468-75	5.6	7
31	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, 462-8	8.7	86
30	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, 501-6	4.4	43
29	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, 1810-5	8.7	33
28	Methodology of diffusion-weighted, diffusion tensor and magnetisation transfer imaging. *British Journal of Radiology*, **2011**, 84 Spec No 2, S121-6	3.4	10
27	Imaging biomarkers of brain tumour margin and tumour invasion. *British Journal of Radiology*, **2011**, 84 Spec No 2, S159-67	3.4	68
26	Intracranial Pressure Monitoring Using the Codman MicroSensor. *Neurosurgery*, **2010**, 67, E221	3.2	
25	Management of chronic subdural haematoma AuthorsSreply. *Lancet, The*, **2010**, 375, 195-196	40	3
24	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	4.8	116

23	Advances in imaging low-grade gliomas. *Advances and Technical Standards in Neurosurgery*, **2010**, 35, 1-34		29
22	Imaging regional variation of cellular proliferation in gliomas using 3Sdeoxy-3S[18F]fluorothymidine positron-emission tomography: an image-guided biopsy study. *Clinical Radiology*, **2009**, 64, 52-63	2.9	48
21	Quantitative imaging biomarkers in neuro-oncology. *Nature Reviews Clinical Oncology*, **2009**, 6, 445-54	19.4	79
20	Use of drains versus no drains after burr-hole evacuation of chronic subdural haematoma: a randomised controlled trial. *Lancet, The*, **2009**, 374, 1067-73	40	424
19	Assessment of zero drift in the Codman intracranial pressure monitor: a study from 2 neurointensive care units. *Neurosurgery*, **2009**, 64, 94-8; discussion 98-9	3.2	34
18	Radiotherapy as an adjuvant in the management of intracranial meningiomas: are we practising evidence-based medicine?. *British Journal of Neurosurgery*, **2008**, 22, 520-8	1	68
17	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, 577-87	2.8	18
16	Predicting patterns of glioma recurrence using diffusion tensor imaging. *European Radiology*, **2007**, 17, 1675-84	8	79
15	High grade glioma: imaging combined with pathological grade defines management and predicts prognosis. *Radiotherapy and Oncology*, **2007**, 85, 371-8	5.3	32
14	The role of advanced MR imaging in understanding brain tumour pathology. *British Journal of Neurosurgery*, **2007**, 21, 562-75	1	42
13	In vivo alteration of Strata valve setting by vagus nerve stimulator-activating magnet. *British Journal of Neurosurgery*, **2007**, 21, 41-2	1	13
12	Enhanced visualization and quantification of magnetic resonance diffusion tensor imaging using the p:q tensor decomposition. *British Journal of Radiology*, **2006**, 79, 101-9	3.4	41
11	Detection and evaluation of intracranial aneurysms with 16-row multislice CT angiography. *Clinical Radiology*, **2005**, 60, 565-72	2.9	131
10	Diffusion tensor imaging: possible implications for radiotherapy treatment planning of patients with high-grade glioma. *Clinical Oncology*, **2005**, 17, 581-90	2.8	60
9	Tissue signature characterisation of diffusion tensor abnormalities in cerebral gliomas. *European Radiology*, **2004**, 14, 1909-17	8	78
8	Detecting glioma invasion of the corpus callosum using diffusion tensor imaging. *British Journal of Neurosurgery*, **2004**, 18, 391-5	1	20
7	Have ATLS and national transfer guidelines improved the quality of resuscitation and transfer of head-injured patients? A prospective survey from a Regional Neurosurgical Unit. *Injury*, **2003**, 34, 834-8	2.5	30
6	Diffusion tensor imaging of brain tumours at 3T: a potential tool for assessing white matter tract invasion?. *Clinical Radiology*, **2003**, 58, 455-62	2.9	192

5	Arachnoid cyst of the craniocervical junction: case report. *Neurosurgery*, **2001**, 49, 212-5	3.2	11
4	Helicobacter pylori infection in perforated peptic ulcer disease. *British Journal of Surgery*, **1995**, 82, 1140-53	5.3	2
3	Assessment of neuropsychological function during early treatment of diffuse glioma		2
2	Memory recovery is related to default mode network impairment and neurite density during brain tumours treatment		1
1	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*,2, 18		1