Jens Gempt

List of Publications by Year in descending order

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296 papers	8,037 citations	57758 44 h-index	91884 69 g-index
308 all docs	308 docs citations	308 times ranked	7522 citing authors

#	Article	IF	Citations
1	Accuracy of Robot-Assisted Placement of Lumbar and Sacral Pedicle Screws. Spine, 2012, 37, E496-E501.	2.0	272
2	A Comparison of Language Mapping by Preoperative Navigated Transcranial Magnetic Stimulation and Direct Cortical Stimulation During Awake Surgery. Neurosurgery, 2013, 72, 808-819.	1.1	271
3	Utility of presurgical navigated transcranial magnetic brain stimulation for the resection of tumors in eloquent motor areas. Journal of Neurosurgery, 2012, 116, 994-1001.	1.6	199
4	Clinical benefit from resection of recurrent glioblastomas: results of a multicenter study including 503 patients with recurrent glioblastomas undergoing surgical resection. Neuro-Oncology, 2016, 18, 96-104.	1.2	186
5	Radiation Exposure to the Surgeon and the Patient During Posterior Lumbar Spinal Instrumentation. Spine, 2014, 39, 1004-1009.	2.0	139
6	Preoperative motor mapping by navigated transcranial magnetic brain stimulation improves outcome for motor eloquent lesions. Neuro-Oncology, 2014, 16, 1274-1282.	1.2	131
7	Predictive Value and Safety of Intraoperative Neurophysiological Monitoring With Motor Evoked Potentials in Glioma Surgery. Neurosurgery, 2012, 70, 1060-1071.	1.1	123
8	Risk of cement leakage and pulmonary embolism by bone cement-augmented pedicle screw fixation of the thoracolumbar spine. Spine Journal, 2017, 17, 837-844.	1.3	116
9	Functional preoperative and intraoperative mapping and monitoring: increasing safety and efficacy in glioma surgery. Neurosurgical Focus, 2015, 38, E3.	2.3	113
10	Mobile Health in Oncology: A Patient Survey About App-Assisted Cancer Care. JMIR MHealth and UHealth, 2017, 5, e81.	3.7	109
11	Combined noninvasive language mapping by navigated transcranial magnetic stimulation and functional MRI and its comparison with direct cortical stimulation. Journal of Neurosurgery, 2015, 123, 212-225.	1.6	97
12	Optimal timing of pulse onset for language mapping with navigated repetitive transcranial magnetic stimulation. NeuroImage, 2014, 100, 219-236.	4.2	93
13	Radiolucent Carbon Fiberâ€“Reinforced Pedicle Screws for Treatment of Spinal Tumors: Advantages for Radiation Planning and Follow-Up Imaging. World Neurosurgery, 2017, 105, 294-301.	1.3	93
14	Functional Language Shift to the Right Hemisphere in Patients with Language-Eloquent Brain Tumors. PLoS ONE, 2013, 8, e75403.	2.5	92
15	Endoscopic transnasal resection of the odontoid: case series and clinical course. European Spine Journal, 2011, 20, 661-666.	2.2	89
16	Diffusion tensor imaging fiber tracking using navigated brain stimulationâ€”a feasibility study. Acta Neurochirurgica, 2012, 154, 555-563.	1.7	89
17	Safety and tolerability of navigated TMS for preoperative mapping in neurosurgical patients. Clinical Neurophysiology, 2016, 127, 1895-1900.	1.5	86
18	Diagnosis of glioma recurrence using multiparametric dynamic 18F-fluoroethyl-tyrosine PET-MRI. European Journal of Radiology, 2018, 103, 32-37.	2.6	85

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19	Revision Rate of Misplaced Pedicle Screws of the Thoracolumbar Spineâ€“Comparison of Three-Dimensional Fluoroscopy Navigation with Freehand Placement: A Systematic Analysis and Review of the Literature. World Neurosurgery, 2018, 109, e24-e32.	1.3	82
20	Oxytocin levels in saliva correlate better than plasma levels with concentrations in the cerebrospinal fluid of patients in neurocritical care. Journal of Neuroendocrinology, 2018, 30, e12596.	2.6	81
21	Aldehyde dehydrogenase 1A1â€”a new mediator of resistance to temozolomide in glioblastoma. Neuro-Oncology, 2012, 14, 1452-1464.	1.2	80
22	Textural analysis of pre-therapeutic [18F]-FET-PET and its correlation with tumor grade and patient survival in high-grade gliomas. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 133-141.	6.4	78
23	Impairment of preoperative language mapping by lesion location: a functional magnetic resonance imaging, navigated transcranial magnetic stimulation, and direct cortical stimulation study. Journal of Neurosurgery, 2015, 123, 314-324.	1.6	76
24	Postoperative ischemic changes following resection of newly diagnosed and recurrent gliomas and their clinical relevance. Journal of Neurosurgery, 2013, 118, 801-808.	1.6	74
25	Connectomic comparison of mouse and human cortex. Science, 2022, 377, .	12.6	74
26	Learning curve of 3D fluoroscopy imageâ€“guided pedicle screw placement in the thoracolumbar spine. Spine Journal, 2015, 15, 467-476.	1.3	73
27	Intraoperative subcortical motor evoked potential stimulation: how close is the corticospinal tract?. Journal of Neurosurgery, 2015, 123, 711-720.	1.6	71
28	Navigated transcranial magnetic stimulation for preoperative language mapping in a patient with a left frontoopercular glioblastoma. Journal of Neurosurgery, 2013, 118, 175-179.	1.6	69
29	Repeated mapping of cortical language sites by preoperative navigated transcranial magnetic stimulation compared to repeated intraoperative DCS mapping in awake craniotomy. BMC Neuroscience, 2014, 15, 20.	1.9	69
30	Reliability of intraoperative neurophysiological monitoring using motor evoked potentials during resection of metastases in motor-eloquent brain regions. Journal of Neurosurgery, 2013, 118, 1269-1278.	1.6	65
31	Presurgical navigated transcranial magnetic brain stimulation for recurrent gliomas in motor eloquent areas. Clinical Neurophysiology, 2013, 124, 522-527.	1.5	63
32	The impact of preoperative language mapping by repetitive navigated transcranial magnetic stimulation on the clinical course of brain tumor patients. BMC Cancer, 2015, 15, 261.	2.6	62
33	Language and its right-hemispheric distribution in healthy brains: An investigation by repetitive transcranial magnetic stimulation. NeuroImage, 2014, 102, 776-788.	4.2	61
34	Associations between clinical outcome and navigated transcranial magnetic stimulation characteristics in patients with motor-eloquent brain lesions: a combined navigated transcranial magnetic stimulationâ€“diffusion tensor imaging fiber tracking approach. Journal of Neurosurgery, 2018, 128, 800-810.	1.6	60
35	MR-based hypoxia measures in human glioma. Journal of Neuro-Oncology, 2013, 115, 197-207.	2.9	58
36	Changing the clinical course of glioma patients by preoperative motor mapping with navigated transcranial magnetic brain stimulation. BMC Cancer, 2015, 15, 231.	2.6	58

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37	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. Scientific Reports, 2017, 7, 13396.	3.3	57
38	Postoperative ischemic changes after glioma resection identified by diffusion-weighted magnetic resonance imaging and their association with intraoperative motor evoked potentials. Journal of Neurosurgery, 2013, 119, 829-836.	1.6	54
39	Neurosurgical resident education in Europeâ€"results of a multinational survey. Acta Neurochirurgica, 2016, 158, 3-15.	1.7	54
40	Multiparametric MRI-based differentiation of WHO grade II/III glioma and WHO grade IV glioblastoma. Scientific Reports, 2016, 6, 35142.	3.3	52
41	Minimally invasive transforaminal lumbar interbody fusion versus open transforaminal lumbar interbody fusion: a technical description and review of the literature. Acta Neurochirurgica, 2017, 159, 1137-1146.	1.7	52
42	Working time of neurosurgical residents in Europeâ€"results of a multinational survey. Acta Neurochirurgica, 2016, 158, 17-25.	1.7	50
43	The Intratumoral Heterogeneity Reflects the Intertumoral Subtypes of Glioblastoma Multiforme: A Regional Immunohistochemistry Analysis. Frontiers in Oncology, 2020, 10, 494.	2.8	50
44	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. European Radiology, 2021, 31, 6069-6077.	4.5	50
45	Pedicle screw-based dynamic stabilization of the thoracolumbar spine with the CosmicÂ®-system: a prospective observation. Acta Neurochirurgica, 2010, 152, 835-843.	1.7	49
46	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. Scientific Reports, 2018, 8, 4561.	3.3	48
47	Resection of highly language-eloquent brain lesions based purely on rTMS language mapping without awake surgery. Acta Neurochirurgica, 2016, 158, 2265-2275.	1.7	47
48	Risk Assessment by Presurgical Tractography Using Navigated TMS Maps in Patients with Highly Motor- or Language-Eloquent Brain Tumors. Cancers, 2020, 12, 1264.	3.7	46
49	Resection of Motor Eloquent Metastases Aided by Preoperative nTMS-Based Motor Mapsâ€"Comparison of Two Observational Cohorts. Frontiers in Oncology, 2016, 6, 261.	2.8	45
50	Human Glioma Migration and Infiltration Properties as a Target for Personalized Radiation Medicine. Cancers, 2018, 10, 456.	3.7	43
51	Continuous subcortical motor evoked potential stimulation using the tip of an ultrasonic aspirator for the resection of motor eloquent lesions. Journal of Neurosurgery, 2015, 123, 301-306.	1.6	42
52	Cortical distribution of speech and language errors investigated by visual object naming and navigated transcranial magnetic stimulation. Brain Structure and Function, 2016, 221, 2259-2286.	2.3	42
53	Language pathway tracking: comparing nTMS-based DTI fiber tracking with a cubic ROIs-based protocol. Journal of Neurosurgery, 2017, 126, 1006-1014.	1.6	42
54	Cortical plasticity of motor-eloquent areas measured by navigated transcranial magnetic stimulation in patients with glioma. Journal of Neurosurgery, 2017, 127, 981-991.	1.6	42

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55	Differential loss of KIR4.1 immunoreactivity in multiple sclerosis lesions. Annals of Neurology, 2014, 75, 810-828.	5.3	41
56	A retrospective study of 113 consecutive cases of surgically treated spondylodiscitis patients. A single-center experience. Acta Neurochirurgica, 2014, 156, 1189-1196.	1.7	40
57	HFSRT of the resection cavity in patients with brain metastases. Strahlentherapie Und Onkologie, 2016, 192, 368-376.	2.0	39
58	Hemispheric language dominance measured by repetitive navigated transcranial magnetic stimulation and postoperative course of language function in brain tumor patients. Neuropsychologia, 2016, 91, 50-60.	1.6	39
59	Impact of Goal-Directed Therapy on Delayed Ischemia After Aneurysmal Subarachnoid Hemorrhage. Stroke, 2020, 51, 2287-2296.	2.0	39
60	Inter- and intraobserver variability in motor mapping of the hotspot for the abductor policis brevis muscle. BMC Neuroscience, 2013, 14, 94.	1.9	38
61	Visualization of subcortical language pathways by diffusion tensor imaging fiber tracking based on rTMS language mapping. Brain Imaging and Behavior, 2017, 11, 899-914.	2.1	38
62	Comparison between electric-field-navigated and line-navigated TMS for cortical motor mapping in patients with brain tumors. Acta Neurochirurgica, 2016, 158, 2277-2289.	1.7	37
63	Reliability of Semi-Automated Segmentations in Glioblastoma. Clinical Neuroradiology, 2017, 27, 153-161.	1.9	37
64	Intra-lesional spatial correlation of static and dynamic FET-PET parameters with MRI-based cerebral blood volume in patients with untreated glioma. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 392-397.	6.4	37
65	Is Eighty the New Sixty? Outcomes and Complications after Lumbar Decompression Surgery in Elderly Patients over 80 Years of Age. World Neurosurgery, 2018, 112, e555-e560.	1.3	37
66	Feasibility of nTMS-based DTI fiber tracking of language pathways in neurosurgical patients using a fractional anisotropy threshold. Journal of Neuroscience Methods, 2016, 267, 45-54.	2.5	36
67	Validation of an established prognostic score after re-irradiation of recurrent glioma. Acta OncolÃ³gica, 2017, 56, 422-426.	1.8	36
68	Frameless image-guided stereotaxy with real-time visual feedback for brain biopsy. Acta Neurochirurgica, 2012, 154, 1663-1667.	1.7	35
69	Surgery of highly eloquent gliomas primarily assessed as non-resectable: risks and benefits in a cohort study. BMC Cancer, 2013, 13, 51.	2.6	35
70	Prediction Accuracy of Common Prognostic Scoring Systems for Metastatic Spine Disease. Spine, 2018, 43, 1678-1684.	2.0	35
71	Lipid Peroxidation Plays an Important Role in Chemotherapeutic Effects of Temozolomide and the Development of Therapy Resistance in Human Glioblastoma. Translational Oncology, 2020, 13, 100748.	3.7	35
72	Utility of diffusion tensor-imaged (DTI) motor fiber tracking for the resection of intracranial tumors near the corticospinal tract. Acta Neurochirurgica, 2011, 153, 68-74.	1.7	34

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73	Intra- and interobserver variability of language mapping by navigated transcranial magnetic brain stimulation. BMC Neuroscience, 2013, 14, 150.	1.9	34
74	Risks of postoperative paresis in motor eloquently and non-eloquently located brain metastases. BMC Cancer, 2014, 14, 21.	2.6	34
75	Prognostic Value of O-(2-[18F]-Fluoroethyl)-L-Tyrosine-Positron Emission Tomography Imaging for Histopathologic Characteristics and Progression-Free Survival in Patients with Low-Grade Glioma. World Neurosurgery, 2016, 89, 230-239.	1.3	34
76	MR and CT Imaging to Optimize CT-Guided Biopsies in Suspected Spondylodiscitis. World Neurosurgery, 2017, 99, 726-734.e7.	1.3	34
77	Functional Reorganization of Cortical Language Function in Glioma Patientsâ€"A Preliminary Study. Frontiers in Oncology, 2019, 9, 446.	2.8	34
78	nTMS-based DTI fiber tracking for language pathways correlates with language function and aphasia â€“ A case report. Clinical Neurology and Neurosurgery, 2015, 136, 25-28.	1.4	33
79	Early Morbidity and Mortality in 50 Very Elderly Patients After Posterior Atlantoaxial Fusion for Traumatic Odontoid Fractures. World Neurosurgery, 2016, 87, 381-391.	1.3	33
80	Temozolomide induces autophagy in primary and established glioblastoma cells in an EGFR independent manner. Oncology Letters, 2017, 14, 322-328.	1.8	33
81	Local Fractional Anisotropy Is Reduced in Areas with Tumor Recurrence in Glioblastoma. Radiology, 2017, 283, 499-507.	7.3	33
82	Prognostic Value of Tumor Volume in Glioblastoma Patients: Size Also Matters for Patients with Incomplete Resection. Annals of Surgical Oncology, 2018, 25, 558-564.	1.5	33
83	Surgical treatment of spinal intradural carcinoma metastases. Acta Neurochirurgica, 2012, 154, 349-357.	1.7	32
84	18F-Fluoroethyl-l-Thyrosine Positron Emission Tomography to Delineate Tumor Residuals After Glioblastoma Resection: A Comparison with Standard Postoperative Magnetic Resonance Imaging. World Neurosurgery, 2016, 89, 420-426.	1.3	32
85	Clinical Factors Underlying the Inter-individual Variability of the Resting Motor Threshold in Navigated Transcranial Magnetic Stimulation Motor Mapping. Brain Topography, 2017, 30, 98-121.	1.8	32
86	Modification and optimization of an established prognostic score after re-irradiation of recurrent glioma. PLoS ONE, 2017, 12, e0180457.	2.5	32
87	Conus medullaris and cauda equina tumors: clinical presentation, prognosis, and outcome after surgical treatment. Journal of Neurosurgery: Spine, 2014, 20, 335-343.	1.7	30
88	Multimodal imaging in cerebral gliomas and its neuropathological correlation. European Journal of Radiology, 2014, 83, 829-834.	2.6	30
89	Re-irradiation after gross total resection of recurrent glioblastoma. Strahlentherapie Und Onkologie, 2017, 193, 897-909.	2.0	30
90	Characterizing hypoxia in human glioma: A simultaneous multimodal MRI and PET study. NMR in Biomedicine, 2017, 30, e3775.	2.8	30

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91	Navigation, Robotics, and Intraoperative Imaging in Spinal Surgery. Advances and Technical Standards in Neurosurgery, 2014, 41, 3-22.	0.5	30
92	VARIOGUIDE. Operative Neurosurgery, 2009, 64, ons365-ons373.	0.8	29
93	Early [18F]FET-PET in Gliomas after Surgical Resection: Comparison with MRI and Histopathology. PLoS ONE, 2015, 10, e0141153.	2.5	29
94	18F-fluoro-ethyl-tyrosine positron emission tomography for grading and estimation of prognosis in patients with intracranial gliomas. European Journal of Radiology, 2015, 84, 955-962.	2.6	29
95	Non-invasive mapping of calculation function by repetitive navigated transcranial magnetic stimulation. Brain Structure and Function, 2016, 221, 3927-3947.	2.3	29
96	Language-Eloquent White Matter Pathway Tractography and the Course of Language Function in Glioma Patients. Frontiers in Oncology, 2018, 8, 572.	2.8	29
97	Black brain: transformation of a melanocytoma with diffuse melanocytosis into a primary cerebral melanoma. Journal of Neuro-Oncology, 2011, 102, 323-328.	2.9	28
98	Solulin reduces infarct volume and regulates gene-expression in transient middle cerebral artery occlusion in rats. BMC Neuroscience, 2011, 12, 113.	1.9	28
99	Patterns and Time Dependence of Unspecific Enhancement in Postoperative Magnetic Resonance Imaging After Glioblastoma Resection. World Neurosurgery, 2016, 90, 440-447.	1.3	28
100	Analysis of fractional anisotropy facilitates differentiation of glioblastoma and brain metastases in a clinical setting. European Journal of Radiology, 2016, 85, 2182-2187.	2.6	28
101	The variability of motor evoked potential latencies in neurosurgical motor mapping by preoperative navigated transcranial magnetic stimulation. BMC Neuroscience, 2017, 18, 5.	1.9	28
102	Deep learning derived tumor infiltration maps for personalized target definition in Glioblastoma radiotherapy. Radiotherapy and Oncology, 2019, 138, 166-172.	0.6	28
103	Posterior C1-2 fusion with C1 lateral mass and C2 isthmic screws: accuracy of screw position, alignment and patient outcome. Acta Neurochirurgica, 2012, 154, 305-312.	1.7	27
104	Expression analysis following argon treatment in an in vivo model of transient middle cerebral artery occlusion in rats. Medical Gas Research, 2014, 4, 11.	2.3	27
105	Percutaneous Interspinous Spacer vs Decompression in Patients with Neurogenic Claudication: An Alternative in Selected Patients?. Neurosurgery, 2018, 82, 621-629.	1.1	27
106	Postoperative ischemic changes following brain metastasis resection as measured by diffusion-weighted magnetic resonance imaging. Journal of Neurosurgery, 2013, 119, 1395-1400.	1.6	26
107	Intraoperative neuromonitoring for function-guided resection differs for supratentorial motor eloquent gliomas and metastases. BMC Neurology, 2015, 15, 211.	1.8	26
108	The impact of repetitive navigated transcranial magnetic stimulation coil positioning and stimulation parameters on human language function. European Journal of Medical Research, 2015, 20, 47.	2.2	26

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109	Motor areas of the frontal cortex in patients with motor eloquent brain lesions. Journal of Neurosurgery, 2016, 125, 1431-1442.	1.6	26
110	Fractionated vs. single-fraction stereotactic radiotherapy in patients with vestibular schwannoma. Strahlentherapie Und Onkologie, 2017, 193, 192-199.	2.0	26
111	Comprehensive surgical treatment strategy for spinal metastases. Scientific Reports, 2021, 11, 7988.	3.3	26
112	Preoperative language mapping by repetitive navigated transcranial magnetic stimulation and diffusion tensor imaging fiber tracking and their comparison to intraoperative stimulation. Neuroradiology, 2016, 58, 807-818.	2.2	25
113	Residency program trainee-satisfaction correlate with results of the European board examination in neurosurgery. Acta Neurochirurgica, 2016, 158, 1823-1830.	1.7	25
114	Clinical characteristics and course of primary brain abscess. Acta Neurochirurgica, 2018, 160, 2055-2062.	1.7	25
115	Absence of a diurnal rhythm of oxytocin and arginine-vasopressin in human cerebrospinal fluid, blood and saliva. Neuropeptides, 2019, 78, 101977.	2.2	25
116	Female Pituitary Size in Relation to Age and Hormonal Factors. Neuroendocrinology, 2010, 92, 128-132.	2.5	24
117	Long-term follow-up of standard microdiscectomy versus minimal access surgery for lumbar disc herniations. Acta Neurochirurgica, 2013, 155, 2333-2338.	1.7	24
118	Infarct volume after glioblastoma surgery as an independent prognostic factor. Oncotarget, 2016, 7, 61945-61954.	1.8	23
119	Implementing Functional Preoperative Mapping in the Clinical Routine of a Neurosurgical Department: Technical Note. World Neurosurgery, 2017, 103, 94-105.	1.3	23
120	Predicting Glioblastoma Recurrence from Preoperative MR Scans Using Fractional-Anisotropy Maps with Free-Water Suppression. Cancers, 2020, 12, 728.	3.7	23
121	Prediction of Glioma Recurrence Using Dynamic¹⁸F-Fluoroethyltyrosine PET. American Journal of Neuroradiology, 2014, 35, 1924-1929.	2.4	22
122	Spondylodiscitis by drug-multiresistant bacteria: a single-center experience of 25 cases. Spine Journal, 2014, 14, 2826-2834.	1.3	22
123	Volumetric Analysis of F-18-FET-PET Imaging for Brain Metastases. World Neurosurgery, 2015, 84, 1790-1797.	1.3	22
124	High-precision radiotherapy for meningiomas. Strahlentherapie Und Onkologie, 2017, 193, 921-930.	2.0	22
125	Resection of Navigated Transcranial Magnetic Stimulation-Positive Prerolandic Motor Areas Causes Permanent Impairment of Motor Function. Neurosurgery, 2017, 81, 99-110.	1.1	22
126	Loss of Subcortical Language Pathways Correlates with Surgery-Related Aphasia in Patients with Brain Tumor: An Investigation via Repetitive Navigated Transcranial Magnetic Stimulationâ€“Based Diffusion Tensor Imaging Fiber Tracking. World Neurosurgery, 2018, 111, e806-e818.	1.3	22

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127	Adjuvant stereotactic fractionated radiotherapy to the resection cavity in recurrent glioblastoma â€“ the GlioCave study (NOA 17 â€“ ARO 2016/3 â€“ DKTK ROG trial). BMC Cancer, 2018, 18, 15.	2.6	22
128	Ankylosing Spinal Diseaseâ€”Diagnosis and Treatment of Spine Fractures. World Neurosurgery, 2019, 123, e162-e170.	1.3	22
129	Osteoporosis Is the Most Important Risk Factor for Odontoid Fractures in the Elderly. Journal of Bone and Mineral Research, 2017, 32, 1582-1588.	2.8	21
130	Opportunistic Osteoporosis Screening Reveals Low Bone Density in Patients With Screw Loosening After Lumbar Semi-Rigid Instrumentation: A Case-Control Study. Frontiers in Endocrinology, 2020, 11, 552719.	3.5	21
131	Comparison of spinal anatomy between 3-Tesla MRI and CT-myelography under healthy and pathological conditions. Surgical and Radiologic Anatomy, 2010, 32, 581-585.	1.2	20
132	Hypoxia upregulates aldehyde dehydrogenase isoform 1 (ALDH1) expression and induces functional stem cell characteristics in human glioblastoma cells. Brain Tumor Pathology, 2014, 31, 247-256.	1.7	20
133	Interhemispheric connectivity revealed by diffusion tensor imaging fiber tracking derived from navigated transcranial magnetic stimulation maps as a sign of language function at risk in patients with brain tumors. Journal of Neurosurgery, 2017, 126, 222-233.	1.6	20
134	Factors influencing neurocognitive function in patients with neuroepithelial tumors. Scientific Reports, 2017, 7, 17764.	3.3	20
135	Impact of postoperative radiotherapy on recurrence of primary intracranial atypical meningiomas. Journal of Neuro-Oncology, 2020, 146, 347-355.	2.9	20
136	Minimally invasive decompression of chronic subdural haematomas using hollow screws: efficacy and safety in a consecutive series of 320 cases. Acta Neurochirurgica, 2012, 154, 699-705.	1.7	19
137	Impact of ischemic preconditioning on surgical treatment of brain tumors: a single-center, randomized, double-blind, controlled trial. BMC Medicine, 2017, 15, 137.	5.5	19
138	A Second Course of Radiotherapy in Patients with Recurrent Malignant Gliomas: Clinical Data on Re-irradiation, Prognostic Factors, and Usefulness of Digital Biomarkers. Current Treatment Options in Oncology, 2019, 20, 71.	3.0	19
139	Predictive value of transcranial evoked potentials during mechanical endovascular therapy for acute ischaemic stroke: a feasibility study. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, 598-603.	1.9	18
140	Safe Brain Tumor Resection Does not Depend on Surgery Alone - Role of Hemodynamics. Scientific Reports, 2017, 7, 5585.	3.3	18
141	The Role of Navigated Transcranial Magnetic Stimulation Motor Mapping in Adjuvant Radiotherapy Planning in Patients With Supratentorial Brain Metastases. Frontiers in Oncology, 2018, 8, 424.	2.8	18
142	Amino acid tracers in PET imaging of diffuse low-grade gliomas: a systematic review of preoperative applications. Acta Neurochirurgica, 2018, 160, 1451-1460.	1.7	18
143	Prospective validation of a new imaging scorecard to assess leptomeningeal metastasis: A joint EORTC BTG and RANO effort. Neuro-Oncology, 2022, 24, 1726-1735.	1.2	18
144	Endoscopic transnasal resection of the odontoid in a patient with severe brainstem compression. Acta Neurochirurgica, 2010, 152, 559-560.	1.7	17

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145	Safety and efficacy of a new percutaneously implantable interspinous process device. Acta Neurochirurgica, 2010, 152, 1961-1967.	1.7	16
146	FLAIR signal increase of the fluid within the resection cavity after glioma surgery: generally valid as early recurrence marker?. Journal of Neurosurgery, 2017, 127, 417-425.	1.6	16
147	Can Early Postoperative O-(2-18FFluoroethyl)-l-Tyrosine Positron Emission Tomography After Resection of Glioblastoma Predict the Location of Later Tumor Recurrence?. World Neurosurgery, 2019, 121, e467-e474.	1.3	16
148	High expression of estrogen receptor alpha and aromatase in glial tumor cells is associated with gender-independent survival benefits in glioblastoma patients. Journal of Neuro-Oncology, 2020, 147, 567-575.	2.9	16
149	Progressive disease in glioblastoma: Benefits and limitations of semi-automated volumetry. PLoS ONE, 2017, 12, e0173112.	2.5	16
150	Outcome after Surgical Treatment for Late Recurrent Lumbar Disc Herniations in Standard Open Microsurgery. World Neurosurgery, 2016, 89, 382-386.	1.3	15
151	Reorganization of Motor Representations in Patients with Brain Lesions: A Navigated Transcranial Magnetic Stimulation Study. Brain Topography, 2018, 31, 288-299.	1.8	15
152	Evaluation of radiation-related invasion in primary patient-derived glioma cells and validation with established cell lines: impact of different radiation qualities with differing LET. Journal of Neuro-Oncology, 2018, 139, 583-590.	2.9	15
153	Application of presurgical navigated transcranial magnetic stimulation motor mapping for adjuvant radiotherapy planning in patients with high-grade gliomas. Radiotherapy and Oncology, 2019, 138, 30-37.	0.6	15
154	Integration of PET-imaging into radiotherapy treatment planning for low-grade meningiomas improves outcome. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1391-1399.	6.4	15
155	A balanced score to predict survival of elderly patients newly diagnosed with glioblastoma. Radiation Oncology, 2020, 15, 97.	2.7	15
156	Letter to the Editor: Training and career aspects of female neurosurgical residents in Europe. Journal of Neurosurgery, 2016, 125, 1317-1320.	1.6	14
157	Cortical time course of object naming investigated by repetitive navigated transcranial magnetic stimulation. Brain Imaging and Behavior, 2017, 11, 1192-1206.	2.1	14
158	Moving Second Courses of Radiotherapy Forward. Neurosurgery, 2018, 83, 1241-1248.	1.1	14
159	Association of clinical headache features with stroke location: An MRI voxel-based symptom lesion mapping study. Cephalalgia, 2018, 38, 283-291.	3.9	14
160	18F-Fluoroethyl-tyrosine uptake is correlated with amino acid transport and neovascularization in treatment-naive glioblastomas. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2163-2168.	6.4	14
161	How good are the outcomes of instrumented debulking operations for symptomatic spinal metastases and how long do they stand? A subgroup analysis in the global spine tumor study group database. Acta Neurochirurgica, 2020, 162, 943-950.	1.7	14
162	Assessment of the incidence and nature of adverse events and their association with human error in neurosurgery. A prospective observation. Brain and Spine, 2022, 2, 100853.	0.1	14

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163	Value of Early Postoperative FLAIR Volume Dynamic in Glioma with No or Minimal Enhancement. World Neurosurgery, 2016, 91, 548-559.e1.	1.3	13
164	Non-invasive Mapping of Face Processing by Navigated Transcranial Magnetic Stimulation. Frontiers in Human Neuroscience, 2017, 11, 4.	2.0	13
165	Value of Diffusion-Weighted Imaging in the Diagnosis of Postoperative Intracranial Infections. World Neurosurgery, 2018, 118, e245-e253.	1.3	13
166	Paired-pulse navigated TMS is more effective than single-pulse navigated TMS for mapping upper extremity muscles in brain tumor patients. Clinical Neurophysiology, 2020, 131, 2887-2898.	1.5	13
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168	Cement-Augmented Carbon Fiberâ€“Reinforced Pedicle Screw Instrumentation for Spinal Metastases: Safety and Efficacy. World Neurosurgery, 2021, 154, e536-e546.	1.3	13
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