

Jens Gempt

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9155573/jens-gempt-publications-by-year.pdf>
Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

290 papers	5,818 citations	40 h-index	61 g-index
308 ext. papers	7,285 ext. citations	3.9 avg, IF	5.8 L-index

#	Paper	IF	Citations
290	Subcortical motor ischemia can be detected by intraoperative MRI within 10h DA feasibility study. <i>Brain and Spine</i> , 2022 , 2, 100862		
289	Assessment of the incidence and nature of adverse events and their association with human error in neurosurgery. A prospective observation. <i>Brain and Spine</i> , 2022 , 2, 100853		0
288	Age-adjusted Charlson comorbidity index in recurrent glioblastoma: a new prognostic factor?. <i>BMC Neurology</i> , 2022 , 22, 32	3.1	1
287	Complete and Incomplete Resection for Progressive Glioblastoma Prolongs Post-Progression Survival.. <i>Frontiers in Oncology</i> , 2022 , 12, 755430	5.3	0
286	Fight INflammation to Improve outcome after aneurysmal Subarachnoid HEMorrhage (FINISHER) trial: study protocol for a randomized controlled trial.. <i>International Journal of Stroke</i> , 2022 , 17474930221093501	6.3	0
285	Glioblastoma Relapses Show Increased Markers of Vulnerability to Ferroptosis.. <i>Frontiers in Oncology</i> , 2022 , 12, 841418	5.3	0
284	NIMG-01. INTEROBSERVER VARIABILITY OF THE REVISED IMAGING SCORECARD FOR LEPTOMENINGEAL METASTASIS: A JOINT EORTC BRAIN TUMOR GROUP AND RANO EFFORT. <i>Neuro-Oncology</i> , 2021 , 23, vi126-vi127	1	0
283	Prognostic value of tumour volume in patients with a poor Karnofsky performance status scale - a bicentric retrospective study. <i>BMC Neurology</i> , 2021 , 21, 446	3.1	2
282	Impacting the Treatment of Highly Eloquent Supratentorial Cerebral Cavernous Malformations by Noninvasive Functional Mapping-An Observational Cohort Study. <i>Operative Neurosurgery</i> , 2021 , 21, 467-477	1.6	0
281	Spinal Manifestation of Malignant Primary (PLB) and Secondary Bone Lymphoma (SLB). <i>Current Oncology</i> , 2021 , 28, 3891-3899	2.8	0
280	Navigation for surgical treatment of disorders of the cervical spine - A systematic review. <i>Journal of Orthopaedic Surgery</i> , 2021 , 29, 23094990211012865	1.4	0
279	Visual acuity and its postoperative outcome after transsphenoidal adenoma resection. <i>Neurosurgical Review</i> , 2021 , 44, 2245-2251	3.9	1
278	Fungal brain infection-no longer a death sentence. <i>Neurosurgical Review</i> , 2021 , 44, 2239-2244	3.9	1
277	The interhemispheric fissure-surgical outcome of interhemispheric approaches. <i>Neurosurgical Review</i> , 2021 , 44, 2099-2110	3.9	2
276	Surgical Outcome of Trigeminal Schwannomas. <i>Cancers</i> , 2021 , 13,	6.6	1
275	Concentrations of estradiol, progesterone and testosterone in sefrum and cerebrospinal fluid of patients with aneurysmal subarachnoid hemorrhage correlate weakly with transcranial Doppler flow velocities. <i>BMC Neuroscience</i> , 2021 , 22, 29	3.2	2
274	Comprehensive surgical treatment strategy for spinal metastases. <i>Scientific Reports</i> , 2021 , 11, 7988	4.9	5

273	Postoperative cognitive functions in patients with benign intracranial lesions. <i>Scientific Reports</i> , 2021 , 11, 8757	4.9	
272	Improved potential quality of intraoperative transcranial motor-evoked potentials by navigated electrode placement compared to the conventional ten-twenty system. <i>Neurosurgical Review</i> , 2021 , 1	3.9	1
271	Surgical management of spinal metastases involving the cervicothoracic junction: results of a multicenter, European observational study. <i>Neurosurgical Focus</i> , 2021 , 50, E7	4.2	3
270	Potential Role of Hsp70 and Activated NK Cells for Prediction of Prognosis in Glioblastoma Patients. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 669366	5.6	2
269	Body mass index has an impact on preoperative symptoms but not clinical outcome in acute cauda equina syndrome. <i>Scientific Reports</i> , 2021 , 11, 13918	4.9	
268	MRImaging by 3D T1-weighted black blood sequences may improve delineation of therapy-naïve high-grade gliomas. <i>European Radiology</i> , 2021 , 31, 2312-2320	8	1
267	Frequency and risk factors for postoperative aneurysm residual after microsurgical clipping. <i>Acta Neurochirurgica</i> , 2021 , 163, 131-138	3	4
266	Surgical treatment and neurological outcome of infiltrating intramedullary astrocytoma WHO II-IV: a multicenter retrospective case series. <i>Journal of Neuro-Oncology</i> , 2021 , 151, 181-191	4.8	2
265	[F]FET PET Uptake Indicates High Tumor and Low Necrosis Content in Brain Metastasis. <i>Cancers</i> , 2021 , 13,	6.6	3
264	Patient-Specific Virtual Spine Straightening and Vertebra Inpainting: An Automatic Framework for Osteoplasty Planning. <i>Lecture Notes in Computer Science</i> , 2021 , 529-539	0.9	1
263	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. <i>European Radiology</i> , 2021 , 31, 6069-6077	8	11
262	Intraoperative MRI-based elastic fusion for anatomically accurate tractography of the corticospinal tract: correlation with intraoperative neuromonitoring and clinical status. <i>Neurosurgical Focus</i> , 2021 , 50, E9	4.2	5
261	Response by Anetsberger and Gempt to Letter Regarding Article "Impact of Goal-Directed Therapy on Delayed Ischemia After Aneurysmal Subarachnoid Hemorrhage". <i>Stroke</i> , 2021 , 52, e21-e22	6.7	
260	Non-Invasive Mapping for Effective Preoperative Guidance to Approach Highly Language-Eloquent Gliomas-A Large Scale Comparative Cohort Study Using a New Classification for Language Eloquence. <i>Cancers</i> , 2021 , 13,	6.6	3
259	Use of monoclonal antibody therapy for nosocomial SARS-CoV-2 infection in patients at high risk for severe COVID-19: experience from a tertiary-care hospital in Germany. <i>Infection</i> , 2021 , 49, 1313-1318	5.8	4
258	Association of Troponin T levels and functional outcome 3 months after subarachnoid hemorrhage. <i>Scientific Reports</i> , 2021 , 11, 16154	4.9	1
257	Visualizing cellularity and angiogenesis in newly-diagnosed glioblastoma with diffusion and perfusion MRI and FET-PET imaging. <i>EJNMMI Research</i> , 2021 , 11, 72	3.6	1
256	Surgical Management of Jugular Foramen Schwannomas. <i>Cancers</i> , 2021 , 13,	6.6	1

255	Surgical Treatment of Intraorbital Lesions. <i>World Neurosurgery</i> , 2021 , 155, e805-e813	2.1	
254	Transsphenoidal pituitary adenoma resection: do early post-operative cortisol levels predict permanent long-term hypocortisolism?. <i>Neurosurgical Review</i> , 2021 , 1	3.9	0
253	Cement-Augmented Carbon Fiber-Reinforced Pedicle Screw Instrumentation for Spinal Metastases: Safety and Efficacy. <i>World Neurosurgery</i> , 2021 , 154, e536-e546	2.1	1
252	Predictive Value of Transcranial Evoked Potential Monitoring for Intramedullary Spinal Cord Tumors. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2021 , 82, 325-332	1.1	1
251	Non-invasive mapping of cortical categorization function by repetitive navigated transcranial magnetic stimulation.. <i>Scientific Reports</i> , 2021 , 11, 24480	4.9	
250	Tracking the Corticospinal Tract in Patients With High-Grade Glioma: Clinical Evaluation of Multi-Level Fiber Tracking and Comparison to Conventional Deterministic Approaches.. <i>Frontiers in Oncology</i> , 2021 , 11, 761169	5.3	3
249	A Continuous Correlation Between Residual Tumor Volume and Survival Recommends Maximal Safe Resection in Glioblastoma Patients: A Nomogram for Clinical Decision Making and Reference for Non-Randomized Trials.. <i>Frontiers in Oncology</i> , 2021 , 11, 748691	5.3	2
248	Awake Craniotomy and Resection of a Left Frontal High-Grade Glioma: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2020 , 18, E85	1.6	0
247	Is local radiotherapy a viable option for patients with an opening of the ventricles during surgical resection of brain metastases?. <i>Radiation Oncology</i> , 2020 , 15, 276	4.2	1
246	Endoscopic Transnasal Odontoidectomy for Ventral Decompression of the Craniovertebral Junction: Surgical Technique and Clinical Outcome in a Case Series of 19 Patients. <i>Operative Neurosurgery</i> , 2020 , 20, 24-31	1.6	1
245	Paired-pulse navigated TMS is more effective than single-pulse navigated TMS for mapping upper extremity muscles in brain tumor patients. <i>Clinical Neurophysiology</i> , 2020 , 131, 2887-2898	4.3	7
244	Short-Interval Intracortical Facilitation Improves Efficacy in nTMS Motor Mapping of Lower Extremity Muscle Representations in Patients with Supra-Tentorial Brain Tumors. <i>Cancers</i> , 2020 , 12,	6.6	2
243	Risk Assessment by Presurgical Tractography Using Navigated TMS Maps in Patients with Highly Motor- or Language-Eloquent Brain Tumors. <i>Cancers</i> , 2020 , 12,	6.6	25
242	A balanced score to predict survival of elderly patients newly diagnosed with glioblastoma. <i>Radiation Oncology</i> , 2020 , 15, 97	4.2	7
241	Glioma patients in outpatient care-optimization of psychosocial care in neuro-oncological patients (GLIOPT): Protocol for a cluster randomized controlled trial. <i>Trials</i> , 2020 , 21, 434	2.8	3
240	Bilateral thoracic disc herniation with abdominal wall paresis: a case report. <i>Acta Neurochirurgica</i> , 2020 , 162, 2055-2059	3	5
239	Assessment of the Extent of Resection in Surgery of High-Grade Glioma-Evaluation of Black Blood Sequences for Intraoperative Magnetic Resonance Imaging at 3 Tesla. <i>Cancers</i> , 2020 , 12,	6.6	1
238	Cervical Myelopathy in Patients Suffering from Rheumatoid Arthritis-A Case Series of 9 Patients and A Review of the Literature. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	6

237	Predicting Glioblastoma Recurrence from Preoperative MR Scans Using Fractional-Anisotropy Maps with Free-Water Suppression. <i>Cancers</i> , 2020 , 12,	6.6	10
236	Correlation of the quantitative level of MGMT promoter methylation and overall survival in primary diagnosed glioblastomas using the quantitative MethyQESD method. <i>Journal of Clinical Pathology</i> , 2020 , 73, 112-115	3.9	7
235	Impact of Goal-Directed Therapy on Delayed Ischemia After Aneurysmal Subarachnoid Hemorrhage: Randomized Controlled Trial. <i>Stroke</i> , 2020 , 51, 2287-2296	6.7	14
234	Lipid Peroxidation Plays an Important Role in Chemotherapeutic Effects of Temozolomide and the Development of Therapy Resistance in Human Glioblastoma. <i>Translational Oncology</i> , 2020 , 13, 100748	4.9	22
233	Perioperative neurocognitive functions in patients with neuroepithelial intracranial tumors. <i>Journal of Neuro-Oncology</i> , 2020 , 147, 77-89	4.8	3
232	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. <i>Acta Neurochirurgica</i> , 2020 , 162, 943-950	3	5
231	The wavelet power spectrum of perfusion weighted MRI correlates with tumor vascularity in biopsy-proven glioblastoma samples. <i>PLoS ONE</i> , 2020 , 15, e0228030	3.7	2
230	High expression of estrogen receptor alpha and aromatase in glial tumor cells is associated with gender-independent survival benefits in glioblastoma patients. <i>Journal of Neuro-Oncology</i> , 2020 , 147, 567-575	4.8	9
229	Image Analysis Reveals Microstructural and Volumetric Differences in Glioblastoma Patients with and without Preoperative Seizures. <i>Cancers</i> , 2020 , 12,	6.6	1
228	The Intratumoral Heterogeneity Reflects the Intertumoral Subtypes of Glioblastoma Multiforme: A Regional Immunohistochemistry Analysis. <i>Frontiers in Oncology</i> , 2020 , 10, 494	5.3	23
227	The transbasal approach to the anterior skull base: surgical outcome of a single-centre case series. <i>Scientific Reports</i> , 2020 , 10, 22444	4.9	0
226	Impact of postoperative radiotherapy on recurrence of primary intracranial atypical meningiomas. <i>Journal of Neuro-Oncology</i> , 2020 , 146, 347-355	4.8	10
225	C1-C2 posterior screw fixation in atlantoaxial fractures revisited: technical update based on 127 cases. <i>European Spine Journal</i> , 2020 , 29, 1036-1042	2.7	4
224	Integration of PET-imaging into radiotherapy treatment planning for low-grade meningiomas improves outcome. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020 , 47, 1391-1399	8.8	11
223	Immunohistochemically Characterized Intratumoral Heterogeneity Is a Prognostic Marker in Human Glioblastoma. <i>Cancers</i> , 2020 , 12,	6.6	4
222	Intraventricular neuroepithelial tumors: surgical outcome, technical considerations and review of literature. <i>BMC Cancer</i> , 2020 , 20, 1060	4.8	4
221	Subtraction Maps Derived from Longitudinal Magnetic Resonance Imaging in Patients with Glioma Facilitate Early Detection of Tumor Progression. <i>Cancers</i> , 2020 , 12,	6.6	1
220	MRI criteria of subtypes of adenomas and epithelial cysts of the pituitary gland. <i>Neurosurgical Review</i> , 2020 , 43, 265-272	3.9	1

219	Craniocervical trauma above the age of 90: are current prognostic scores sufficient?. <i>Neurosurgical Review</i> , 2020 , 43, 1101-1107	3.9	1
218	The cortical distribution of first and second language in the right hemisphere of bilinguals - an exploratory study by repetitive navigated transcranial magnetic stimulation. <i>Brain Imaging and Behavior</i> , 2020 , 14, 1034-1049	4.1	2
217	Inaccuracy of standard geriatric scores in nonagenarians following hospitalization for various spinal pathologies. <i>Neurosurgical Review</i> , 2020 , 43, 807-812	3.9	0
216	Opportunistic Osteoporosis Screening Reveals Low Bone Density in Patients With Screw Loosening After Lumbar Semi-Rigid Instrumentation: A Case-Control Study. <i>Frontiers in Endocrinology</i> , 2020 , 11, 552719	5.7	7
215	Re-irradiation in elderly patients with glioblastoma: a single institution experience. <i>Journal of Neuro-Oncology</i> , 2019 , 142, 327-335	4.8	7
214	Risk factors for neurocognitive impairment in patients with benign intracranial lesions. <i>Scientific Reports</i> , 2019 , 9, 8400	4.9	3
213	Application of presurgical navigated transcranial magnetic stimulation motor mapping for adjuvant radiotherapy planning in patients with high-grade gliomas. <i>Radiotherapy and Oncology</i> , 2019 , 138, 30-37	5.3	12
212	Functional Reorganization of Cortical Language Function in Glioma Patients-A Preliminary Study. <i>Frontiers in Oncology</i> , 2019 , 9, 446	5.3	15
211	Role of postoperative tumor volume in patients with MGMT-unmethylated glioblastoma. <i>Journal of Neuro-Oncology</i> , 2019 , 142, 529-536	4.8	5
210	Hypophysenstüßungen nach Schädel-Hirn-Trauma bei Erwachsenen. <i>Notfall Und Rettungsmedizin</i> , 2019 , 22, 56-58	0.4	
209	Advancing spinal fellowship training: an international multi-centre educational perspective. <i>European Spine Journal</i> , 2019 , 28, 2437-2443	2.7	4
208	Stereotactic irradiation of the resection cavity after surgical resection of brain metastases - when is the right timing?. <i>Acta Oncologica</i> , 2019 , 58, 1714-1719	3.2	3
207	F-Fluoroethyl-tyrosine uptake is correlated with amino acid transport and neovascularization in treatment-naïve glioblastomas. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 46, 2163-2168	8.8	10
206	Deep learning derived tumor infiltration maps for personalized target definition in Glioblastoma radiotherapy. <i>Radiotherapy and Oncology</i> , 2019 , 138, 166-172	5.3	17
205	A Second Course of Radiotherapy in Patients with Recurrent Malignant Gliomas: Clinical Data on Re-irradiation, Prognostic Factors, and Usefulness of Digital Biomarkers. <i>Current Treatment Options in Oncology</i> , 2019 , 20, 71	5.4	13
204	Absence of a diurnal rhythm of oxytocin and arginine-vasopressin in human cerebrospinal fluid, blood and saliva. <i>Neuropeptides</i> , 2019 , 78, 101977	3.3	20
203	Neoadjuvant stereotactic radiosurgery for intracerebral metastases of solid tumors (NepoMUC): a phase I dose escalation trial. <i>Cancer Communications</i> , 2019 , 39, 73	9.4	4
202	Permutation Entropy in intraoperative ECoG of brain tumour patients in awake tumour surgery- a robust parameter to separate consciousness from unconsciousness. <i>Scientific Reports</i> , 2019 , 9, 16482	4.9	1

201	The algorithms of adjuvant therapy in gliomas and their effect on survival. <i>Journal of Neurosurgical Sciences</i> , 2019 , 63, 179-186	1.3	4
200	ALDH1 - A new immunohistochemical diagnostic marker for Schwann cell-derived tumors 2019 , 38, 168-173		2
199	Secondary Malignant Tumors (Diagnosis, Staging, Surgical Treatment and Adjuvant Therapy) 2019 , 401-407		
198	Spine Injuries in the Elderly 2019 , 309-318		
197	Indications for Craniocervical Surgery and Anterior Resection Techniques (Endonasal, Transoral) 2019 , 411-416		
196	Endonasal Approach to the Craniocervical Junction 2019 , 75-79		
195	Riesiges lumbosakrales myxopapilläres Ependymom mit Infiltration und partieller Destruktion der Dura und des Knochens. <i>Die Wirbelsäule</i> , 2019 , 03, 302-305	0.2	
194	In Reply to Letter to the Editor Regarding "Can Early Postoperative O-(2-Fluoroethyl)-l-Tyrosine Positron Emission Tomography After Resection of Glioblastoma Predict the Location of Later Tumor Recurrence?". <i>World Neurosurgery</i> , 2019 , 123, 470	2.1	
193	The European Robotic Spinal Instrumentation (EUROSPIN) study: protocol for a multicentre prospective observational study of pedicle screw revision surgery after robot-guided, navigated and freehand thoracolumbar spinal fusion. <i>BMJ Open</i> , 2019 , 9, e030389	3	10
192	Patient-Reported Outcome (PRO) as an Addition to Long-Term Results after High-Precision Stereotactic Radiotherapy in Patients with Secreting and Non-Secreting Pituitary Adenomas: A Retrospective Cohort Study up to 17-Years Follow-Up. <i>Cancers</i> , 2019 , 11,	6.6	1
191	Ankylosing Spinal Disease-Diagnosis and Treatment of Spine Fractures. <i>World Neurosurgery</i> , 2019 , 123, e162-e170	2.1	12
190	Can Early Postoperative O-(2-Fluoroethyl)-l-Tyrosine Positron Emission Tomography After Resection of Glioblastoma Predict the Location of Later Tumor Recurrence?. <i>World Neurosurgery</i> , 2019 , 121, e467-e474	2.1	11
189	Wavelet-based reconstruction of dynamic susceptibility MR-perfusion: a new method to visualize hypervascular brain tumors. <i>European Radiology</i> , 2019 , 29, 2669-2676	8	1
188	Moving Second Courses of Radiotherapy Forward: Early Re-Irradiation After Surgical Resection for Recurrent Gliomas Improves Efficacy With Excellent Tolerability. <i>Neurosurgery</i> , 2018 , 83, 1241-1248	3.2	12
187	Oxytocin levels in saliva correlate better than plasma levels with concentrations in the cerebrospinal fluid of patients in neurocritical care. <i>Journal of Neuroendocrinology</i> , 2018 , 30, e12596	3.8	54
186	Diagnosis of glioma recurrence using multiparametric dynamic 18F-fluoroethyl-tyrosine PET-MRI. <i>European Journal of Radiology</i> , 2018 , 103, 32-37	4.7	42
185	Is Eighty the New Sixty? Outcomes and Complications after Lumbar Decompression Surgery in Elderly Patients over 80 Years of Age. <i>World Neurosurgery</i> , 2018 , 112, e555-e560	2.1	24
184	Loss of Subcortical Language Pathways Correlates with Surgery-Related Aphasia in Patients with Brain Tumor: An Investigation via Repetitive Navigated Transcranial Magnetic Stimulation-Based Diffusion Tensor Imaging Fiber Tracking. <i>World Neurosurgery</i> , 2018 , 111, e806-e818	2.1	18

183	Percutaneous Interspinous Spacer vs Decompression in Patients with Neurogenic Claudication: An Alternative in Selected Patients?. <i>Neurosurgery</i> , 2018 , 82, 621-629	3.2	15
182	Mapping of Arithmetic Processing by Navigated Repetitive Transcranial Magnetic Stimulation in Patients with Parietal Brain Tumors and Correlation with Postoperative Outcome. <i>World Neurosurgery</i> , 2018 , 114, e1016-e1030	2.1	4
181	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. <i>Scientific Reports</i> , 2018 , 8, 4561	4.9	25
180	Association of clinical headache features with stroke location: An MRI voxel-based symptom lesion mapping study. <i>Cephalalgia</i> , 2018 , 38, 283-291	6.1	10
179	Associations between clinical outcome and navigated transcranial magnetic stimulation characteristics in patients with motor-eloquent brain lesions: a combined navigated transcranial magnetic stimulation-diffusion tensor imaging fiber tracking approach. <i>Journal of Neurosurgery</i> , 2018 , 123, 800-810	3.2	37
178	Revision Rate of Misplaced Pedicle Screws of the Thoracolumbar Spine-Comparison of Three-Dimensional Fluoroscopy Navigation with Freehand Placement: A Systematic Analysis and Review of the Literature. <i>World Neurosurgery</i> , 2018 , 109, e24-e32	2.1	48
177	Reorganization of Motor Representations in Patients with Brain Lesions: A Navigated Transcranial Magnetic Stimulation Study. <i>Brain Topography</i> , 2018 , 31, 288-299	4.3	6
176	Malignant Peripheral Nerve Sheath Tumor in the Course of the Mandibular Nerve. <i>World Neurosurgery</i> , 2018 , 117, e130-e137	2.1	4
175	Value of Diffusion-Weighted Imaging in the Diagnosis of Postoperative Intracranial Infections. <i>World Neurosurgery</i> , 2018 , 118, e245-e253	2.1	8
174	Clinical characteristics and course of primary brain abscess. <i>Acta Neurochirurgica</i> , 2018 , 160, 2055-2062	3	11
173	Mapping visuospatial attention: the greyscales task in combination with repetitive navigated transcranial magnetic stimulation. <i>BMC Neuroscience</i> , 2018 , 19, 40	3.2	9
172	Prediction Accuracy of Common Prognostic Scoring Systems for Metastatic Spine Disease: Results of a Prospective International Multicentre Study of 1469 Patients. <i>Spine</i> , 2018 , 43, 1678-1684	3.3	24
171	Adjuvant stereotactic fractionated radiotherapy to the resection cavity in recurrent glioblastoma - the GlioCave study (NOA 17 - ARO 2016/3 - DTKK ROG trial). <i>BMC Cancer</i> , 2018 , 18, 15	4.8	17
170	Bevacizumab therapy for recurrent gliomas: another disappointment?. <i>Lancet Oncology</i> , 2018 , 19, 1137-1138	21.7	1
169	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. <i>Journal of Neuro-Oncology</i> , 2018 , 139, 583-590	4.8	8
168	Operative Therapie von Rezidivgliomen 2018 , 327-334		
167	Prognostic Value of Tumor Volume in Glioblastoma Patients: Size Also Matters for Patients with Incomplete Resection. <i>Annals of Surgical Oncology</i> , 2018 , 25, 558-564	3.1	16
166	Predicting brain tumor regrowth in relation to motor areas by functional brain mapping. <i>Neuro-Oncology Practice</i> , 2018 , 5, 82-95	2.2	3

165	Highlights from the First Annual Spinal Navigation, Emerging Technologies and Systems Integration Meeting. <i>Annals of Translational Medicine</i> , 2018 , 6, 110	3.2	5
164	nTMS guidance of awake surgery for highly eloquent gliomas. <i>Neurosurgical Focus</i> , 2018 , 45, V9	4.2	5
163	Personality Traits in Patients with Neuroepithelial Tumors - A Prospective Study. <i>Scientific Reports</i> , 2018 , 8, 17055	4.9	
162	Human Glioma Migration and Infiltration Properties as a Target for Personalized Radiation Medicine. <i>Cancers</i> , 2018 , 10,	6.6	25
161	ASO Author Reflections: Size of Tumor Volume in Glioblastoma Patients. <i>Annals of Surgical Oncology</i> , 2018 , 25, 898	3.1	1
160	Language-Eloquent White Matter Pathway Tractography and the Course of Language Function in Glioma Patients. <i>Frontiers in Oncology</i> , 2018 , 8, 572	5.3	18
159	A trend towards a more intense adjuvant treatment of low-grade-gliomas in tertiary centers in Germany after RTOG 9802 - results from a multi-center survey. <i>BMC Cancer</i> , 2018 , 18, 907	4.8	4
158	Clinical Characteristics and Course of Postoperative Brain Abscess. <i>World Neurosurgery</i> , 2018 , 120, e675-e683	4.6	4
157	The Role of Navigated Transcranial Magnetic Stimulation Motor Mapping in Adjuvant Radiotherapy Planning in Patients With Supratentorial Brain Metastases. <i>Frontiers in Oncology</i> , 2018 , 8, 424	5.3	15
156	Risk Factors for Dropping Out of Neurosurgical Residency Programs-A Survey Study. <i>World Neurosurgery</i> , 2018 , 120, e100-e106	2.1	6
155	Amino acid tracers in PET imaging of diffuse low-grade gliomas: a systematic review of preoperative applications. <i>Acta Neurochirurgica</i> , 2018 , 160, 1451-1460	3	11
154	Evoking visual neglect-like deficits in healthy volunteers - an investigation by repetitive navigated transcranial magnetic stimulation. <i>Brain Imaging and Behavior</i> , 2017 , 11, 17-29	4.1	9
153	Reliability of Semi-Automated Segmentations in Glioblastoma. <i>Clinical Neuroradiology</i> , 2017 , 27, 153-161	2.7	23
152	Visualization of subcortical language pathways by diffusion tensor imaging fiber tracking based on rTMS language mapping. <i>Brain Imaging and Behavior</i> , 2017 , 11, 899-914	4.1	32
151	Language pathway tracking: comparing nTMS-based DTI fiber tracking with a cubic ROIs-based protocol. <i>Journal of Neurosurgery</i> , 2017 , 126, 1006-1014	3.2	31
150	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. <i>Journal of Neurosurgery</i> , 2017 , 126, 222-233	3.2	13
149	Validation of an established prognostic score after re-irradiation of recurrent glioma. <i>Acta Oncologica</i> , 2017 , 56, 422-426	3.2	30
148	Risk of cement leakage and pulmonary embolism by bone cement-augmented pedicle screw fixation of the thoracolumbar spine. <i>Spine Journal</i> , 2017 , 17, 837-844	4	72

147	L5 corpectomy-the lumbosacral segmental geometry and clinical outcome-a consecutive series of 14 patients and review of the literature. <i>Acta Neurochirurgica</i> , 2017 , 159, 1147-1152	3	5
146	Minimally invasive transforaminal lumbar interbody fusion versus open transforaminal lumbar interbody fusion: a technical description and review of the literature. <i>Acta Neurochirurgica</i> , 2017 , 159, 1137-1146	3	35
145	Neurosurgical Resident Training in Germany. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2017 , 78, 337-343	1.1	7
144	Cortical plasticity of motor-eloquent areas measured by navigated transcranial magnetic stimulation in patients with glioma. <i>Journal of Neurosurgery</i> , 2017 , 127, 981-991	3.2	27
143	Osteoporosis Is the Most Important Risk Factor for Odontoid Fractures in the Elderly. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1582-1588	6.3	14
142	Identifying cortical first and second language sites via navigated transcranial magnetic stimulation of the left hemisphere in bilinguals. <i>Brain and Language</i> , 2017 , 168, 106-116	2.9	7
141	Radiolucent Carbon Fiber-Reinforced Pedicle Screws for Treatment of Spinal Tumors: Advantages for Radiation Planning and Follow-Up Imaging. <i>World Neurosurgery</i> , 2017 , 105, 294-301	2.1	60
140	Does age really matter? Radiotherapy in elderly patients with glioblastoma, the Munich experience. <i>Radiation Oncology</i> , 2017 , 12, 77	4.2	3
139	Re-irradiation after gross total resection of recurrent glioblastoma : Spatial pattern of recurrence and a review of the literature as a basis for target volume definition. <i>Strahlentherapie Und Onkologie</i> , 2017 , 193, 897-909	4.3	23
138	High-precision radiotherapy for meningiomas : Long-term results and patient-reported outcome (PRO). <i>Strahlentherapie Und Onkologie</i> , 2017 , 193, 921-930	4.3	19
137	Computed Tomography and Magnetic Resonance Imaging Parameters Associated with Poor Clinical Outcome in Spondylodiscitis. <i>World Neurosurgery</i> , 2017 , 104, 919-926.e2	2.1	5
136	Resection of Navigated Transcranial Magnetic Stimulation-Positive Prerolandic Motor Areas Causes Permanent Impairment of Motor Function. <i>Neurosurgery</i> , 2017 , 81, 99-110	3.2	15
135	Implementing Functional Preoperative Mapping in the Clinical Routine of a Neurosurgical Department: Technical Note. <i>World Neurosurgery</i> , 2017 , 103, 94-105	2.1	17
134	Positron emission tomography and magnetic resonance spectroscopy in cerebral gliomas. <i>Clinical and Translational Imaging</i> , 2017 , 5, 151-158	2	3
133	Intra-lesional spatial correlation of static and dynamic FET-PET parameters with MRI-based cerebral blood volume in patients with untreated glioma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017 , 44, 392-397	8.8	22
132	Cortical time course of object naming investigated by repetitive navigated transcranial magnetic stimulation. <i>Brain Imaging and Behavior</i> , 2017 , 11, 1192-1206	4.1	8
131	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. <i>Scientific Reports</i> , 2017 , 7, 13396	4.9	50
130	Modification and optimization of an established prognostic score after re-irradiation of recurrent glioma. <i>PLoS ONE</i> , 2017 , 12, e0180457	3.7	26

129	Impact of ischemic preconditioning on surgical treatment of brain tumors: a single-center, randomized, double-blind, controlled trial. <i>BMC Medicine</i> , 2017 , 15, 137	11.4	14
128	NCOG-03. PERSONALITY TRAITS IN PATIENTS WITH NEUROEPITHELIAL TUMORS DA PROSPECTIVE STUDY. <i>Neuro-Oncology</i> , 2017 , 19, vi138-vi138	1	78
127	Safe Brain Tumor Resection Does not Depend on Surgery Alone - Role of Hemodynamics. <i>Scientific Reports</i> , 2017 , 7, 5585	4.9	10
126	Characterizing hypoxia in human glioma: A simultaneous multimodal MRI and PET study. <i>NMR in Biomedicine</i> , 2017 , 30, e3775	4.4	22
125	Temozolomide induces autophagy in primary and established glioblastoma cells in an EGFR independent manner. <i>Oncology Letters</i> , 2017 , 14, 322-328	2.6	25
124	The variability of motor evoked potential latencies in neurosurgical motor mapping by preoperative navigated transcranial magnetic stimulation. <i>BMC Neuroscience</i> , 2017 , 18, 5	3.2	19
123	Fractionated vs. single-fraction stereotactic radiotherapy in patients with vestibular schwannoma : Hearing preservation and patientsPself-reported outcome based on an established questionnaire. <i>Strahlentherapie Und Onkologie</i> , 2017 , 193, 192-199	4.3	19
122	MR and CT Imaging to Optimize CT-Guided Biopsies in Suspected Spondylodiscitis. <i>World Neurosurgery</i> , 2017 , 99, 726-734.e7	2.1	21
121	FLAIR signal increase of the fluid within the resection cavity after glioma surgery: generally valid as early recurrence marker?. <i>Journal of Neurosurgery</i> , 2017 , 127, 417-425	3.2	9
120	Clinical Factors Underlying the Inter-individual Variability of the Resting Motor Threshold in Navigated Transcranial Magnetic Stimulation Motor Mapping. <i>Brain Topography</i> , 2017 , 30, 98-121	4.3	24
119	Local Fractional Anisotropy Is Reduced in Areas with Tumor Recurrence in Glioblastoma. <i>Radiology</i> , 2017 , 283, 499-507	20.5	21
118	TMIC-49. POTASSIUM CHANNEL KIR4.1 AND GLUTAMINE SYNTHETASE ARE DYSREGULATED IN GLIOMA. <i>Neuro-Oncology</i> , 2017 , 19, vi253-vi254	1	78
117	Factors influencing neurocognitive function in patients with neuroepithelial tumors. <i>Scientific Reports</i> , 2017 , 7, 17764	4.9	12
116	NCOG-10. FACTORS INFLUENCING NEUROCOGNITIVE FUNCTION IN PATIENTS WITH NEUROEPITHELIAL TUMORS. <i>Neuro-Oncology</i> , 2017 , 19, vi139-vi140	1	78
115	Non-invasive Mapping of Face Processing by Navigated Transcranial Magnetic Stimulation. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 4	3.3	11
114	Progressive disease in glioblastoma: Benefits and limitations of semi-automated volumetry. <i>PLoS ONE</i> , 2017 , 12, e0173112	3.7	12
113	Mobile Health in Oncology: A Patient Survey About App-Assisted Cancer Care. <i>JMIR MHealth and UHealth</i> , 2017 , 5, e81	5.5	57
112	Integration of Functional Data in the Clinical Workflow 2017 , 51-66		

111	Increase in FLAIR Signal of the Fluid Within the Resection Cavity as Early Recurrence Marker: Also Valid for Brain Metastases?. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2017 , 189, 63-70	2.3	3
110	Predictive value of transcranial evoked potentials during mechanical endovascular therapy for acute ischaemic stroke: a feasibility study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, 598-603	5.5	14
109	Cortical distribution of speech and language errors investigated by visual object naming and navigated transcranial magnetic stimulation. <i>Brain Structure and Function</i> , 2016 , 221, 2259-86	4	31
108	Fractional Anisotropy Correlates with Overall Survival in Glioblastoma. <i>World Neurosurgery</i> , 2016 , 95, 525-534.e1	2.1	6
107	Status Epilepticus After Subthalamic Deep Brain Stimulation Surgery in a Patient with Parkinson's Disease. <i>World Neurosurgery</i> , 2016 , 96, 614.e1-614.e6	2.1	2
106	Letter to the Editor: Training and career aspects of female neurosurgical residents in Europe. <i>Journal of Neurosurgery</i> , 2016 , 125, 1317-1320	3.2	12
105	Residency program trainee-satisfaction correlate with results of the European board examination in neurosurgery. <i>Acta Neurochirurgica</i> , 2016 , 158, 1823-30	3	14
104	Hemispheric language dominance measured by repetitive navigated transcranial magnetic stimulation and postoperative course of language function in brain tumor patients. <i>Neuropsychologia</i> , 2016 , 91, 50-60	3.2	30
103	Methodische und technische Optimierung Bei 27 Jahre. <i>Info Onkologie</i> , 2016 , 19, 27-28		
102	Early Morbidity and Mortality in 50 Very Elderly Patients After Posterior Atlantoaxial Fusion for Traumatic Odontoid Fractures. <i>World Neurosurgery</i> , 2016 , 87, 381-91	2.1	27
101	Non-invasive mapping of calculation function by repetitive navigated transcranial magnetic stimulation. <i>Brain Structure and Function</i> , 2016 , 221, 3927-3947	4	21
100	Language function distribution in left-handers: A navigated transcranial magnetic stimulation study. <i>Neuropsychologia</i> , 2016 , 82, 65-73	3.2	5
99	Working time of neurosurgical residents in Europe--results of a multinational survey. <i>Acta Neurochirurgica</i> , 2016 , 158, 17-25	3	34
98	Safety and tolerability of navigated TMS for preoperative mapping in neurosurgical patients. <i>Clinical Neurophysiology</i> , 2016 , 127, 1895-900	4.3	66
97	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. <i>World Neurosurgery</i> , 2016 , 89, 230-9	2.1	33
96	Motor areas of the frontal cortex in patients with motor eloquent brain lesions. <i>Journal of Neurosurgery</i> , 2016 , 125, 1431-1442	3.2	20
95	Static FET-PET and MR Imaging in Anaplastic Gliomas (WHO III). <i>World Neurosurgery</i> , 2016 , 91, 524-531.e1.1		9
94	Treatment strategy for cerebral hypotension caused by spontaneous cerebrospinal fluid leaks. <i>Acta Neurochirurgica</i> , 2016 , 158, 273-8	3	4

93	Neurosurgical resident education in Europe--results of a multinational survey. <i>Acta Neurochirurgica</i> , 2016 , 158, 3-15	3	37
92	Correlating subcortical interhemispheric connectivity and cortical hemispheric dominance in brain tumor patients: A repetitive navigated transcranial magnetic stimulation study. <i>Clinical Neurology and Neurosurgery</i> , 2016 , 141, 56-64	2	4
91	Textural analysis of pre-therapeutic [18F]-FET-PET and its correlation with tumor grade and patient survival in high-grade gliomas. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 133-141	8.8	65
90	Clinical benefit from resection of recurrent glioblastomas: results of a multicenter study including 503 patients with recurrent glioblastomas undergoing surgical resection. <i>Neuro-Oncology</i> , 2016 , 18, 96-104	104	129
89	Infarct volume after glioblastoma surgery as an independent prognostic factor. <i>Oncotarget</i> , 2016 , 7, 61945-61954	3.3	18
88	Resection of Motor Eloquent Metastases Aided by Preoperative nTMS-Based Motor Maps-Comparison of Two Observational Cohorts. <i>Frontiers in Oncology</i> , 2016 , 6, 261	5.3	35
87	Evaluation of degenerative disease of the lumbar spine: MR/MR myelography versus conventional myelography/post-myelography CT. <i>Acta Neurochirurgica</i> , 2016 , 158, 1571-8	3	3
86	Multiparametric MRI-based differentiation of WHO grade II/III glioma and WHO grade IV glioblastoma. <i>Scientific Reports</i> , 2016 , 6, 35142	4.9	44
85	Patterns and Time Dependence of Unspecific Enhancement in Postoperative Magnetic Resonance Imaging After Glioblastoma Resection. <i>World Neurosurgery</i> , 2016 , 90, 440-447	2.1	21
84	Outcome after Surgical Treatment for Late Recurrent Lumbar Disc Herniations in Standard Open Microsurgery. <i>World Neurosurgery</i> , 2016 , 89, 382-6	2.1	11
83	Value of Early Postoperative FLAIR Volume Dynamic in Glioma with No or Minimal Enhancement. <i>World Neurosurgery</i> , 2016 , 91, 548-559.e1	2.1	11
82	Perspective on Ionizing Radiation Exposure to Neurosurgery Residents in the Modern Era. <i>World Neurosurgery</i> , 2016 , 88, 649-650	2.1	2
81	Feasibility of nTMS-based DTI fiber tracking of language pathways in neurosurgical patients using a fractional anisotropy threshold. <i>Journal of Neuroscience Methods</i> , 2016 , 267, 45-54	3	32
80	Preoperative language mapping by repetitive navigated transcranial magnetic stimulation and diffusion tensor imaging fiber tracking and their comparison to intraoperative stimulation. <i>Neuroradiology</i> , 2016 , 58, 807-18	3.2	20
79	In Reply to the Letter to the Editor: "Comparing the Volume of Brain Metastases in F-18-FET-PET and MRI". <i>World Neurosurgery</i> , 2016 , 89, 723	2.1	
78	Mapping of cortical language function by functional magnetic resonance imaging and repetitive navigated transcranial magnetic stimulation in 40 healthy subjects. <i>Acta Neurochirurgica</i> , 2016 , 158, 1303-16	3	6
77	(18)F-Fluoroethyl-L-Thyrosine Positron Emission Tomography to Delineate Tumor Residuals After Glioblastoma Resection: A Comparison with Standard Postoperative Magnetic Resonance Imaging. <i>World Neurosurgery</i> , 2016 , 89, 420-6	2.1	23
76	HFSRT of the resection cavity in patients with brain metastases. <i>Strahlentherapie Und Onkologie</i> , 2016 , 192, 368-76	4.3	29

75	Analysis of fractional anisotropy facilitates differentiation of glioblastoma and brain metastases in a clinical setting. <i>European Journal of Radiology</i> , 2016 , 85, 2182-2187	4.7	20
74	Resection of highly language-eloquent brain lesions based purely on rTMS language mapping without awake surgery. <i>Acta Neurochirurgica</i> , 2016 , 158, 2265-2275	3	37
73	Comparison between electric-field-navigated and line-navigated TMS for cortical motor mapping in patients with brain tumors. <i>Acta Neurochirurgica</i> , 2016 , 158, 2277-2289	3	21
72	Learning curve of 3D fluoroscopy image-guided pedicle screw placement in the thoracolumbar spine. <i>Spine Journal</i> , 2015 , 15, 467-76	4	57
71	nTMS-based DTI fiber tracking for language pathways correlates with language function and aphasia – A case report. <i>Clinical Neurology and Neurosurgery</i> , 2015 , 136, 25-8	2	31
70	Intraoperative subcortical motor evoked potential stimulation: how close is the corticospinal tract?. <i>Journal of Neurosurgery</i> , 2015 , 123, 711-20	3.2	49
69	¹⁸ F-fluoro-ethyl-tyrosine positron emission tomography for grading and estimation of prognosis in patients with intracranial gliomas. <i>European Journal of Radiology</i> , 2015 , 84, 955-62	4.7	25
68	The impact of preoperative language mapping by repetitive navigated transcranial magnetic stimulation on the clinical course of brain tumor patients. <i>BMC Cancer</i> , 2015 , 15, 261	4.8	47
67	The impact of repetitive navigated transcranial magnetic stimulation coil positioning and stimulation parameters on human language function. <i>European Journal of Medical Research</i> , 2015 , 20, 47	4.8	22
66	Impairment of preoperative language mapping by lesion location: a functional magnetic resonance imaging, navigated transcranial magnetic stimulation, and direct cortical stimulation study. <i>Journal of Neurosurgery</i> , 2015 , 123, 314-24	3.2	56
65	Combined noninvasive language mapping by navigated transcranial magnetic stimulation and functional MRI and its comparison with direct cortical stimulation. <i>Journal of Neurosurgery</i> , 2015 , 123, 212-25	3.2	80
64	Changing the clinical course of glioma patients by preoperative motor mapping with navigated transcranial magnetic brain stimulation. <i>BMC Cancer</i> , 2015 , 15, 231	4.8	45
63	Continuous subcortical motor evoked potential stimulation using the tip of an ultrasonic aspirator for the resection of motor eloquent lesions. <i>Journal of Neurosurgery</i> , 2015 , 123, 301-6	3.2	34
62	Volumetric Analysis of F-18-FET-PET Imaging for Brain Metastases. <i>World Neurosurgery</i> , 2015 , 84, 1790-72.1	2.1	21
61	Intraoperative neuromonitoring for function-guided resection differs for supratentorial motor eloquent gliomas and metastases. <i>BMC Neurology</i> , 2015 , 15, 211	3.1	19
60	Early [¹⁸ F]FET-PET in Gliomas after Surgical Resection: Comparison with MRI and Histopathology. <i>PLoS ONE</i> , 2015 , 10, e0141153	3.7	24
59	Periodic hiccup in patients with subthalamic deep brain stimulation for Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2015 , 21, 1117-8	3.6	2
58	Functional preoperative and intraoperative mapping and monitoring: increasing safety and efficacy in glioma surgery. <i>Neurosurgical Focus</i> , 2015 , 38, E3	4.2	86

57	Repeated mapping of cortical language sites by preoperative navigated transcranial magnetic stimulation compared to repeated intraoperative DCS mapping in awake craniotomy. <i>BMC Neuroscience</i> , 2014 , 15, 20	3.2	59
56	Risks of postoperative paresis in motor eloquently and non-eloquently located brain metastases. <i>BMC Cancer</i> , 2014 , 14, 21	4.8	29
55	Language and its right-hemispheric distribution in healthy brains: an investigation by repetitive transcranial magnetic stimulation. <i>NeuroImage</i> , 2014 , 102 Pt 2, 776-88	7.9	51
54	Optimal timing of pulse onset for language mapping with navigated repetitive transcranial magnetic stimulation. <i>NeuroImage</i> , 2014 , 100, 219-36	7.9	79
53	A retrospective study of 113 consecutive cases of surgically treated spondylodiscitis patients. A single-center experience. <i>Acta Neurochirurgica</i> , 2014 , 156, 1189-96	3	27
52	Differential loss of KIR4.1 immunoreactivity in multiple sclerosis lesions. <i>Annals of Neurology</i> , 2014 , 75, 810-28	9.4	36
51	Preoperative motor mapping by navigated transcranial magnetic brain stimulation improves outcome for motor eloquent lesions. <i>Neuro-Oncology</i> , 2014 , 16, 1274-82	1	110
50	Radiation exposure to the surgeon and the patient during posterior lumbar spinal instrumentation: a prospective randomized comparison of navigated versus non-navigated freehand techniques. <i>Spine</i> , 2014 , 39, 1004-9	3.3	106
49	Prediction of glioma recurrence using dynamic 18 F-fluoroethyltyrosine PET. <i>American Journal of Neuroradiology</i> , 2014 , 35, 1924-9	4.4	20
48	Conus medullaris and cauda equina tumors: clinical presentation, prognosis, and outcome after surgical treatment: clinical article. <i>Journal of Neurosurgery: Spine</i> , 2014 , 20, 335-43	2.8	23
47	Expression analysis following argon treatment in an in vivo model of transient middle cerebral artery occlusion in rats. <i>Medical Gas Research</i> , 2014 , 4, 11	2.2	20
46	Hypoxia upregulates aldehyde dehydrogenase isoform 1 (ALDH1) expression and induces functional stem cell characteristics in human glioblastoma cells. <i>Brain Tumor Pathology</i> , 2014 , 31, 247-56 ^{3,2}		13
45	Multimodal imaging in cerebral gliomas and its neuropathological correlation. <i>European Journal of Radiology</i> , 2014 , 83, 829-34	4.7	26
44	Spondylodiscitis by drug-multiresistant bacteria: a single-center experience of 25 cases. <i>Spine Journal</i> , 2014 , 14, 2826-34	4	17
43	Multimodal Imaging to Delineate Tumor Heterogeneity in Cerebral Gliomas. <i>Open Journal of Radiology</i> , 2014 , 04, 182-189	0.2	3
42	Navigation, robotics, and intraoperative imaging in spinal surgery. <i>Advances and Technical Standards in Neurosurgery</i> , 2014 , 41, 3-22		20
41	Surgery of highly eloquent gliomas primarily assessed as non-resectable: risks and benefits in a cohort study. <i>BMC Cancer</i> , 2013 , 13, 51	4.8	23
40	Recurrent multiple spinal paragangliomas as a manifestation of a metastatic composite paraganglioma-ganglioneuroblastoma. <i>Acta Neurochirurgica</i> , 2013 , 155, 1241-2	3	

39	Presurgical navigated transcranial magnetic brain stimulation for recurrent gliomas in motor eloquent areas. <i>Clinical Neurophysiology</i> , 2013 , 124, 522-7	4.3	56
38	MR-based hypoxia measures in human glioma. <i>Journal of Neuro-Oncology</i> , 2013 , 115, 197-207	4.8	44
37	Inter- and intraobserver variability in motor mapping of the hotspot for the abductor pollicis brevis muscle. <i>BMC Neuroscience</i> , 2013 , 14, 94	3.2	30
36	Intra- and interobserver variability of language mapping by navigated transcranial magnetic brain stimulation. <i>BMC Neuroscience</i> , 2013 , 14, 150	3.2	30
35	Navigated transcranial magnetic stimulation for preoperative language mapping in a patient with a left frontoopercular glioblastoma. <i>Journal of Neurosurgery</i> , 2013 , 118, 175-9	3.2	63
34	Reliability of intraoperative neurophysiological monitoring using motor evoked potentials during resection of metastases in motor-eloquent brain regions: clinical article. <i>Journal of Neurosurgery</i> , 2013 , 118, 1269-78	3.2	53
33	Hollow screws: a diagnostic tool for intracranial empyema. <i>Acta Neurochirurgica</i> , 2013 , 155, 373-7	3	4
32	Stupid mistakes. <i>World Neurosurgery</i> , 2013 , 79, 447	2.1	1
31	Yes, we CAN!. <i>World Neurosurgery</i> , 2013 , 79, 85-6	2.1	4
30	Long-term follow-up of standard microdiscectomy versus minimal access surgery for lumbar disc herniations. <i>Acta Neurochirurgica</i> , 2013 , 155, 2333-8	3	15
29	Postoperative ischemic changes after glioma resection identified by diffusion-weighted magnetic resonance imaging and their association with intraoperative motor evoked potentials. <i>Journal of Neurosurgery</i> , 2013 , 119, 829-36	3.2	40
28	Postoperative ischemic changes following brain metastasis resection as measured by diffusion-weighted magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2013 , 119, 1395-400	3.2	22
27	Postoperative ischemic changes following resection of newly diagnosed and recurrent gliomas and their clinical relevance. <i>Journal of Neurosurgery</i> , 2013 , 118, 801-8	3.2	52
26	A comparison of language mapping by preoperative navigated transcranial magnetic stimulation and direct cortical stimulation during awake surgery. <i>Neurosurgery</i> , 2013 , 72, 808-19	3.2	218
25	Functional language shift to the right hemisphere in patients with language-eloquent brain tumors. <i>PLoS ONE</i> , 2013 , 8, e75403	3.7	70
24	Surgical treatment of spinal intradural carcinoma metastases. <i>Acta Neurochirurgica</i> , 2012 , 154, 349-57	3	22
23	Posterior C1-2 fusion with C1 lateral mass and C2 isthmic screws: accuracy of screw position, alignment and patient outcome. <i>Acta Neurochirurgica</i> , 2012 , 154, 305-12	3	22
22	Diffusion tensor imaging fiber tracking using navigated brain stimulation--a feasibility study. <i>Acta Neurochirurgica</i> , 2012 , 154, 555-63	3	70

21	Aldehyde dehydrogenase 1A1--a new mediator of resistance to temozolomide in glioblastoma. <i>Neuro-Oncology</i> , 2012 , 14, 1452-64	1	63
20	Familial pineocytoma. <i>Acta Neurochirurgica</i> , 2012 , 154, 1413-6	3	3
19	Frameless image-guided stereotaxy with real-time visual feedback for brain biopsy. <i>Acta Neurochirurgica</i> , 2012 , 154, 1663-7	3	30
18	Minimally invasive decompression of chronic subdural haematomas using hollow screws: efficacy and safety in a consecutive series of 320 cases. <i>Acta Neurochirurgica</i> , 2012 , 154, 699-705; discussion 705	3	15
17	Utility of presurgical navigated transcranial magnetic brain stimulation for the resection of tumors in eloquent motor areas. <i>Journal of Neurosurgery</i> , 2012 , 116, 994-1001	3.2	163
16	Predictive value and safety of intraoperative neurophysiological monitoring with motor evoked potentials in glioma surgery. <i>Neurosurgery</i> , 2012 , 70, 1060-70; discussion 1070-1	3.2	96
15	Accuracy of robot-assisted placement of lumbar and sacral pedicle screws: a prospective randomized comparison to conventional freehand screw implantation. <i>Spine</i> , 2012 , 37, E496-501	3.3	205
14	Black brain: transformation of a melanocytoma with diffuse melanocytosis into a primary cerebral melanoma. <i>Journal of Neuro-Oncology</i> , 2011 , 102, 323-8	4.8	21
13	Endoscopic transnasal resection of the odontoid: case series and clinical course. <i>European Spine Journal</i> , 2011 , 20, 661-6	2.7	76
12	Utility of diffusion tensor-imaged (DTI) motor fiber tracking for the resection of intracranial tumors near the corticospinal tract. <i>Acta Neurochirurgica</i> , 2011 , 153, 68-74; discussion 74	3	26
11	Stellenwert der Tumorresektion in der interdisziplinären Behandlung hirneigener Tumoren. <i>Onkologie</i> , 2011 , 17, 31-36	0.1	
10	Solulin reduces infarct volume and regulates gene-expression in transient middle cerebral artery occlusion in rats. <i>BMC Neuroscience</i> , 2011 , 12, 113	3.2	21
9	Female pituitary size in relation to age and hormonal factors. <i>Neuroendocrinology</i> , 2010 , 92, 128-32	5.6	18
8	Effect of lumbar spinal stenosis and surgical decompression on erectile function. <i>Spine</i> , 2010 , 35, E1172-3	3.3	10
7	Comparison of spinal anatomy between 3-Tesla MRI and CT-myelography under healthy and pathological conditions. <i>Surgical and Radiologic Anatomy</i> , 2010 , 32, 581-5	1.4	19
6	Endoscopic transnasal resection of the odontoid in a patient with severe brainstem compression. <i>Acta Neurochirurgica</i> , 2010 , 152, 559-60	3	16
5	Pedicle screw-based dynamic stabilization of the thoracolumbar spine with the Cosmic-system: a prospective observation. <i>Acta Neurochirurgica</i> , 2010 , 152, 835-43	3	43
4	Safety and efficacy of a new percutaneously implantable interspinous process device. <i>Acta Neurochirurgica</i> , 2010 , 152, 1961-7	3	13

3	VarioGuide: a new frameless image-guided stereotactic system--accuracy study and clinical assessment. <i>Operative Neurosurgery</i> , 2009 , 64, 365-71; discussion 371-3	1.6	23
2	Hemorrhagic lesion with detection of infected endothelial cells in human bornavirus encephalitis. <i>Acta Neuropathologica</i> ,	14.3	1
1	Connectomic comparison of mouse and human cortex. <i>Science</i> ,	33.3	1