Benedikt Wiestler

List of Publications by Year in Descending Order

143 papers	6,636 citations	38 h-index	80 g-index
151 ext. papers	8,231 ext. citations	6.6 avg, IF	5.44 L-index

#	Paper	IF	Citations
143	Subcortical motor ischemia can be detected by intraoperative MRI within 1 h A feasibility study. *Brain and Spine*, **2022**, 2, 100862		
142	Age-adjusted Charlson comorbidity index in recurrent glioblastoma: a new prognostic factor?. *BMC Neurology*, **2022**, 22, 32	3.1	1
141	Modelling glioma progression, mass effect and intracranial pressure in patient anatomy.. *Journal of the Royal Society Interface*, **2022**, 19, 20210922	4.1	0
140	Uncertainty-Aware and Lesion-Specific Image Synthesis in Multiple Sclerosis Magnetic Resonance Imaging: A Multicentric Validation Study.. *Frontiers in Neuroscience*, **2022**, 16, 889808	5.1	1
139	FedCostWAvg: A New Averaging for Better Federated Learning. *Lecture Notes in Computer Science*, **2022**, 383-391	0.9	
138	Geometry-aware neural solver for fast Bayesian calibration of brain tumor models.. *IEEE Transactions on Medical Imaging*, **2021**, PP,	11.7	1
137	Prognostic value of tumour volume in patients with a poor Karnofsky performance status scale - a bicentric retrospective study. *BMC Neurology*, **2021**, 21, 446	3.1	2
136	Improving Automated Glioma Segmentation in Routine Clinical Use Through Artificial Intelligence-Based Replacement of Missing Sequences With Synthetic Magnetic Resonance Imaging Scans. *Investigative Radiology*, **2021**,	10.1	4
135	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. *Scientific Data*, **2021**, 8, 284	8.2	5
134	Automated Pathology Detection and Patient Triage in Routinely Acquired Head Computed Tomography Scans. *Investigative Radiology*, **2021**, 56, 571-578	10.1	2
133	Postoperative cognitive functions in patients with benign intracranial lesions. *Scientific Reports*, **2021**, 11, 8757	4.9	
132	Accelerated 3D whole-brain T1, T2, and proton density mapping: feasibility for clinical glioma MR imaging. *Neuroradiology*, **2021**, 63, 1831-1851	3.2	2
131	Autoencoders for unsupervised anomaly segmentation in brain MR images: A comparative study. *Medical Image Analysis*, **2021**, 69, 101952	15.4	51
130	Modeling Healthy Anatomy with Artificial Intelligence for Unsupervised Anomaly Detection in Brain MRI. *Radiology: Artificial Intelligence*, **2021**, 3, e190169	8.7	9
129	Fully automated analysis combining [F]-FET-PET and multiparametric MRI including DSC perfusion and APTw imaging: a promising tool for objective evaluation of glioma progression. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 48, 4445-4455	8.8	2
128	Development of Randomized Trials in Adults with Medulloblastoma-The Example of EORTC 1634-BTG/NOA-23. *Cancers*, **2021**, 13,	6.6	2
127	Modeling motor task activation from resting-state fMRI using machine learning in individual subjects. *Brain Imaging and Behavior*, **2021**, 15, 122-132	4.1	3

126	Unpaired MR Image Homogenisation by Disentangled Representations and Its Uncertainty. *Lecture Notes in Computer Science*, **2021**, 44-53	0.9	
125	[F]FET PET Uptake Indicates High Tumor and Low Necrosis Content in Brain Metastasis. *Cancers*, **2021**, 13,	6.6	3
124	Automated Detection of Ischemic Stroke and Subsequent Patient Triage in Routinely Acquired Head CT. *Clinical Neuroradiology*, **2021**, 1	2.7	0
123	Visualizing cellularity and angiogenesis in newly-diagnosed glioblastoma with diffusion and perfusion MRI and FET-PET imaging. *EJNMMI Research*, **2021**, 11, 72	3.6	1
122	Differential Effects of Fingolimod and Natalizumab on Magnetic Resonance Imaging Measures in Relapsing-Remitting Multiple Sclerosis. *Neurotherapeutics*, **2021**, 1	6.4	
121	AI for Doctors-A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. *Healthcare (Switzerland)*, **2021**, 9,	3.4	1
120	Gray matter atrophy in relapsing-remitting multiple sclerosis is associated with white matter lesions in connecting fibers. *Multiple Sclerosis Journal*, **2021**, 13524585211044957	5	0
119	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. *Medical Image Analysis*, **2021**, 73, 102166	15.4	19
118	Elucidating the structural-functional connectome of language in glioma-induced aphasia using nTMS and DTI.. *Human Brain Mapping*, **2021**,	5.9	2
117	Robust, Primitive, and Unsupervised Quality Estimation for Segmentation Ensembles.. *Frontiers in Neuroscience*, **2021**, 15, 752780	5.1	0
116	Tracking the Corticospinal Tract in Patients With High-Grade Glioma: Clinical Evaluation of Multi-Level Fiber Tracking and Comparison to Conventional Deterministic Approaches.. *Frontiers in Oncology*, **2021**, 11, 761169	5.3	3
115	Deep-Learning Generated Synthetic Double Inversion Recovery Images Improve Multiple Sclerosis Lesion Detection. *Investigative Radiology*, **2020**, 55, 318-323	10.1	25
114	Impact of brain volume and intracranial cerebrospinal fluid volume on the clinical outcome in endovascularly treated stroke patients. *Journal of Stroke and Cerebrovascular Diseases*, **2020**, 29, 104831	2.8	1
113	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. *Cancers*, **2020**, 12,	6.6	1
112	-CD40 Crosstalk in Glioblastoma Invasion and Temozolomide Resistance. *Frontiers in Oncology*, **2020**, 10, 747	5.3	5
111	Predicting Glioblastoma Recurrence from Preoperative MR Scans Using Fractional-Anisotropy Maps with Free-Water Suppression. *Cancers*, **2020**, 12,	6.6	10
110	Correlation of the quantitative level of MGMT promoter methylation and overall survival in primary diagnosed glioblastomas using the quantitative MethyQESD method. *Journal of Clinical Pathology*, **2020**, 73, 112-115	3.9	7
109	BraTS Toolkit: Translating BraTS Brain Tumor Segmentation Algorithms Into Clinical and Scientific Practice. *Frontiers in Neuroscience*, **2020**, 14, 125	5.1	20

108	Perioperative neurocognitive functions in patients with neuroepithelial intracranial tumors. *Journal of Neuro-Oncology*, **2020**, 147, 77-89	4.8	3
107	Imaging glioma biology: spatial comparison of amino acid PET, amide proton transfer, and perfusion-weighted MRI in newly diagnosed gliomas. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 1468-1475	8.8	17
106	The wavelet power spectrum of perfusion weighted MRI correlates with tumor vascularity in biopsy-proven glioblastoma samples. *PLoS ONE*, **2020**, 15, e0228030	3.7	2
105	Image Analysis Reveals Microstructural and Volumetric Differences in Glioblastoma Patients with and without Preoperative Seizures. *Cancers*, **2020**, 12,	6.6	1
104	CXCR4-Targeted PET Imaging of Central Nervous System B-Cell Lymphoma. *Journal of Nuclear Medicine*, **2020**, 61, 1765-1771	8.9	21
103	SteGANomaly: Inhibiting CycleGAN Steganography for Unsupervised Anomaly Detection in Brain MRI. *Lecture Notes in Computer Science*, **2020**, 718-727	0.9	5
102	Reliable Saliency Maps for Weakly-Supervised Localization of Disease Patterns. *Lecture Notes in Computer Science*, **2020**, 63-72	0.9	
101	Reinforced Redetection of Landmark in Pre- and Post-operative Brain Scan Using Anatomical Guidance for Image Alignment. *Lecture Notes in Computer Science*, **2020**, 81-90	0.9	1
100	Image-Guided Radiooncology: The Potential of Radiomics in Clinical Application. *Recent Results in Cancer Research*, **2020**, 216, 773-794	1.5	7
99	A Baseline for Predicting Glioblastoma Patient Survival Time with Classical Statistical Models and Primitive Features Ignoring Image Information. *Lecture Notes in Computer Science*, **2020**, 254-261	0.9	3
98	Scale-Space Autoencoders for Unsupervised Anomaly Segmentation in Brain MRI. *Lecture Notes in Computer Science*, **2020**, 552-561	0.9	11
97	Deep learning for medical image analysis: a brief introduction. *Neuro-Oncology Advances*, **2020**, 2, iv35-iv41	4.9	6
96	Automatic detection of lesion load change in Multiple Sclerosis using convolutional neural networks with segmentation confidence. *NeuroImage: Clinical*, **2020**, 25, 102104	5.3	19
95	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	8.8	11
94	Immunohistochemically Characterized Intratumoral Heterogeneity Is a Prognostic Marker in Human Glioblastoma. *Cancers*, **2020**, 12,	6.6	4
93	AI in Radiology: Where are we today in Multiple Sclerosis Imaging?. *RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren*, **2020**, 192, 847-853	2.3	3
92	Intraventricular neuroepithelial tumors: surgical outcome, technical considerations and review of literature. *BMC Cancer*, **2020**, 20, 1060	4.8	4
91	Bornavirus Encephalitis Shows a Characteristic Magnetic Resonance Phenotype in Humans. *Annals of Neurology*, **2020**, 88, 723-735	9.4	8

90	MRI criteria of subtypes of adenomas and epithelial cysts of the pituitary gland. *Neurosurgical Review*, **2020**, 43, 265-272	3.9	1
89	Risk factors for neurocognitive impairment in patients with benign intracranial lesions. *Scientific Reports*, **2019**, 9, 8400	4.9	3
88	Personalized Radiotherapy Design for Glioblastoma: Integrating Mathematical Tumor Models, Multimodal Scans, and Bayesian Inference. *IEEE Transactions on Medical Imaging*, **2019**, 38, 1875-1884	11.7	45
87	Accuracy of Unenhanced MRI in the Detection of New Brain Lesions in Multiple Sclerosis. *Radiology*, **2019**, 291, 429-435	20.5	24
86	Role of postoperative tumor volume in patients with MGMT-unmethylated glioblastoma. *Journal of Neuro-Oncology*, **2019**, 142, 529-536	4.8	5
85	Deep Autoencoding Models for Unsupervised Anomaly Segmentation in Brain MR Images. *Lecture Notes in Computer Science*, **2019**, 161-169	0.9	84
84	Consistency of normalized cerebral blood volume values in glioblastoma using different leakage correction algorithms on dynamic susceptibility contrast magnetic resonance imaging data without and with preload. *Journal of Neuroradiology*, **2019**, 46, 44-51	3.1	13
83	Deep learning derived tumor infiltration maps for personalized target definition in Glioblastoma radiotherapy. *Radiotherapy and Oncology*, **2019**, 138, 166-172	5.3	17
82	The algorithms of adjuvant therapy in gliomas and their effect on survival. *Journal of Neurosurgical Sciences*, **2019**, 63, 179-186	1.3	4
81	CXCR4-Targeted Positron Emission Tomography Imaging of Central Nervous System B-Cell Lymphoma. *Blood*, **2019**, 134, 2900-2900	2.2	1
80	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. *Lecture Notes in Computer Science*, **2019**, 795-803	0.9	21
79	EANO-EURACAN clinical practice guideline for diagnosis, treatment, and follow-up of post-pubertal and adult patients with medulloblastoma. *Lancet Oncology, The*, **2019**, 20, e715-e728	21.7	31
78	Acceleration of Double Inversion Recovery Sequences in Multiple Sclerosis With Compressed Sensing. *Investigative Radiology*, **2019**, 54, 319-324	10.1	23
77	Combining multimodal imaging and treatment features improves machine learning-based prognostic assessment in patients with glioblastoma multiforme. *Cancer Medicine*, **2019**, 8, 128-136	4.8	23
76	Predicting conversion from clinically isolated syndrome to multiple sclerosis-An imaging-based machine learning approach. *NeuroImage: Clinical*, **2019**, 21, 101593	5.3	18
75	Wavelet-based reconstruction of dynamic susceptibility MR-perfusion: a new method to visualize hypervascular brain tumors. *European Radiology*, **2019**, 29, 2669-2676	8	1
74	Diagnosis of glioma recurrence using multiparametric dynamic 18F-fluoroethyl-tyrosine PET-MRI. *European Journal of Radiology*, **2018**, 103, 32-37	4.7	42
73	Inhibition of CD95/CD95L (FAS/FASLG) Signaling with APG101 Prevents Invasion and Enhances Radiation Therapy for Glioblastoma. *Molecular Cancer Research*, **2018**, 16, 767-776	6.6	14

72	Radiomics in radiooncology - Challenging the medical physicist. *Physica Medica*, **2018**, 48, 27-36	2.7	49
71	A PRDX1-p38 heterodimer amplifies MET-driven invasion of IDH-wildtype and IDH-mutant gliomas. *International Journal of Cancer*, **2018**, 143, 1176-1187	7.5	10
70	Retrospective Analysis of Radiological Recurrence Patterns in Glioblastoma, Their Prognostic Value And Association to Postoperative Infarct Volume. *Scientific Reports*, **2018**, 8, 4561	4.9	25
69	Clinical outcome prediction after thrombectomy of proximal middle cerebral artery occlusions by the appearance of lenticulostriate arteries on magnetic resonance angiography: A retrospective analysis. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 1911-1923	7.3	7
68	Impact of time to endovascular reperfusion on outcome differs according to the involvement of the proximal MCA territory. *Journal of NeuroInterventional Surgery*, **2018**, 10, 530-536	7.8	1
67	Suppression of antitumor T cell immunity by the oncometabolite (R)-2-hydroxyglutarate. *Nature Medicine*, **2018**, 24, 1192-1203	50.5	174
66	Deep Learning with Synthetic Diffusion MRI Data for Free-Water Elimination in Glioblastoma Cases. *Lecture Notes in Computer Science*, **2018**, 98-106	0.9	3
65	Prognostic Value of Tumor Volume in Glioblastoma Patients: Size Also Matters for Patients with Incomplete Resection. *Annals of Surgical Oncology*, **2018**, 25, 558-564	3.1	16
64	Personality Traits in Patients with Neuroepithelial Tumors - A Prospective Study. *Scientific Reports*, **2018**, 8, 17055	4.9	
63	Human Glioma Migration and Infiltration Properties as a Target for Personalized Radiation Medicine. *Cancers*, **2018**, 10,	6.6	25
62	Increasing Diagnostic Accuracy of Mild Cognitive Impairment due to Alzheimer's Disease by User-Independent, Web-Based Whole-Brain Volumetry. *Journal of Alzheimer's Disease*, **2018**, 65, 1459-1467	4.3	5
61	Tweety-Homolog 1 Drives Brain Colonization of Gliomas. *Journal of Neuroscience*, **2017**, 37, 6837-6850	6.6	62
60	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. *Scientific Reports*, **2017**, 7, 13396	4.9	50
59	Differentiation of pseudoprogression and real progression in glioblastoma using ADC parametric response maps. *PLoS ONE*, **2017**, 12, e0174620	3.7	30
58	Impact of ischemic preconditioning on surgical treatment of brain tumors: a single-center, randomized, double-blind, controlled trial. *BMC Medicine*, **2017**, 15, 137	11.4	14
57	Tissue-Selective Salvage of the White Matter by Successful Endovascular Stroke Therapy. *Stroke*, **2017**, 48, 2776-2783	6.7	11
56	Multi-modal Image Classification Using Low-Dimensional Texture Features for Genomic Brain Tumor Recognition. *Lecture Notes in Computer Science*, **2017**, 201-209	0.9	5
55	Safe Brain Tumor Resection Does not Depend on Surgery Alone - Role of Hemodynamics. *Scientific Reports*, **2017**, 7, 5585	4.9	10

54	A novel imaging technique for better detecting new lesions in multiple sclerosis. *Journal of Neurology*, **2017**, 264, 1909-1918	5.5	9
53	Characterizing hypoxia in human glioma: A simultaneous multimodal MRI and PET study. *NMR in Biomedicine*, **2017**, 30, e3775	4.4	22
52	Response assessment with the CXCR4-directed positron emission tomography tracer [Ga]Pentixafor in a patient with extranodal marginal zone lymphoma of the orbital cavities. *EJNMMI Research*, **2017**, 7, 51	3.6	19
51	Local Fractional Anisotropy Is Reduced in Areas with Tumor Recurrence in Glioblastoma. *Radiology*, **2017**, 283, 499-507	20.5	21
50	Progressive disease in glioblastoma: Benefits and limitations of semi-automated volumetry. *PLoS ONE*, **2017**, 12, e0173112	3.7	12
49	Increase in FLAIR Signal of the Fluid Within the Resection Cavity as Early Recurrence Marker: Also Valid for Brain Metastases?. *RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren*, **2017**, 189, 63-70	2.3	3
48	Fractional Anisotropy Correlates with Overall Survival in Glioblastoma. *World Neurosurgery*, **2016**, 95, 525-534.e1	2.1	6
47	Discrimination of Different Brain Metastases and Primary CNS Lymphomas Using Morphologic Criteria and Diffusion Tensor Imaging. *RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren*, **2016**, 188, 1134-1143	2.3	4
46	Impact of tapering and discontinuation of bevacizumab in patients with progressive glioblastoma. *Journal of Neuro-Oncology*, **2016**, 129, 533-539	4.8	4
45	Next-generation sequencing in routine brain tumor diagnostics enables an integrated diagnosis and identifies actionable targets. *Acta Neuropathologica*, **2016**, 131, 903-10	14.3	151
44	Prognostic value of combined visualization of MR diffusion and perfusion maps in glioblastoma. *Journal of Neuro-Oncology*, **2016**, 126, 463-72	4.8	18
43	Prognostic relevance of miRNA-155 methylation in anaplastic glioma. *Oncotarget*, **2016**, 7, 82028-82045	3.3	15
42	Infarct volume after glioblastoma surgery as an independent prognostic factor. *Oncotarget*, **2016**, 7, 61945-61954	3.3	18
41	Long-term analysis of the NOA-04 randomized phase III trial of sequential radiochemotherapy of anaplastic glioma with PCV or temozolomide. *Neuro-Oncology*, **2016**, 18, 1529-1537	1	80
40	Multiparametric MRI-based differentiation of WHO grade II/III glioma and WHO grade IV glioblastoma. *Scientific Reports*, **2016**, 6, 35142	4.9	44
39	Fulminant Central Nervous System Nocardiosis in a Patient Treated With Alemtuzumab for Relapsing-Remitting Multiple Sclerosis. *JAMA Neurology*, **2016**, 73, 757-9	17.2	42
38	Analysis of fractional anisotropy facilitates differentiation of glioblastoma and brain metastases in a clinical setting. *European Journal of Radiology*, **2016**, 85, 2182-2187	4.7	20
37	Pseudoprogression in patients with glioblastoma: clinical relevance despite low incidence. *Neuro-Oncology*, **2015**, 17, 151-9	1	74

36	Relative cerebral blood volume is a potential predictive imaging biomarker of bevacizumab efficacy in recurrent glioblastoma. *Neuro-Oncology*, **2015**, 17, 1139-47	1	64
35	Relaxation-compensated CEST-MRI of the human brain at 7T: Unbiased insight into NOE and amide signal changes in human glioblastoma. *NeuroImage*, **2015**, 112, 180-188	7.9	133
34	Evaluation of dynamic contrast-enhanced MRI derived microvascular permeability in recurrent glioblastoma treated with bevacizumab. *Journal of Neuro-Oncology*, **2015**, 121, 373-80	4.8	35
33	Brain tumour cells interconnect to a functional and resistant network. *Nature*, **2015**, 528, 93-8	50.4	496
32	Association of overall survival in patients with newly diagnosed glioblastoma with contrast-enhanced perfusion MRI: Comparison of intraindividually matched T1 - and T2 (*) -based bolus techniques. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 87-96	5.6	53
31	ATRX and IDH1-R132H immunohistochemistry with subsequent copy number analysis and IDH sequencing as a basis for an "integrated" diagnostic approach for adult astrocytoma, oligodendroglioma and glioblastoma. *Acta Neuropathologica*, **2015**, 129, 133-46	14.3	313
30	Treatment of anaplastic glioma. *Cancer Treatment and Research*, **2015**, 163, 89-101	3.5	17
29	ANGI-08RADIOGENOMIC rCBV-IMAGING VISUALIZES THE DISTINCT ANGIOGENESIS TRANSCRIPTOME SIGNATURES OF IDH MUTANT AND WILD-TYPE GLIOMAS. *Neuro-Oncology*, **2015**, 17, v42.3-v42	1	78
28	IDH mutation status is associated with a distinct hypoxia/angiogenesis transcriptome signature which is non-invasively predictable with rCBV imaging in human glioma. *Scientific Reports*, **2015**, 5, 16238	4.9	182
27	Nuclear Overhauser Enhancement imaging of glioblastoma at 7 Tesla: region specific correlation with apparent diffusion coefficient and histology. *PLoS ONE*, **2015**, 10, e0121220	3.7	28
26	Proximity ligation assay evaluates IDH1R132H presentation in gliomas. *Journal of Clinical Investigation*, **2015**, 125, 593-606	15.9	27
25	Towards optimizing the sequence of bevacizumab and nitrosoureas in recurrent malignant glioma. *Journal of Neuro-Oncology*, **2014**, 117, 85-92	4.8	10
24	A phase II, randomized, study of weekly APG101+reirradiation versus reirradiation in progressive glioblastoma. *Clinical Cancer Research*, **2014**, 20, 6304-13	12.9	89
23	Progression types after antiangiogenic therapy are related to outcome in recurrent glioblastoma. *Neurology*, **2014**, 82, 1684-92	6.5	84
22	Primary glioblastoma cultures: can profiling of stem cell markers predict radiotherapy sensitivity?. *Journal of Neurochemistry*, **2014**, 131, 251-64	6	29
21	Integrated DNA methylation and copy-number profiling identify three clinically and biologically relevant groups of anaplastic glioma. *Acta Neuropathologica*, **2014**, 128, 561-71	14.3	148
20	Infiltrative patterns of glioblastoma: Identification of tumor progress using apparent diffusion coefficient histograms. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 1096-103	5.6	22
19	A vaccine targeting mutant IDH1 induces antitumour immunity. *Nature*, **2014**, 512, 324-7	50.4	481

18	Quantification of tumor vessels in glioblastoma patients using time-of-flight angiography at 7 Tesla: a feasibility study. *PLoS ONE*, **2014**, 9, e110727	3.7	24
17	Evaluation of microvascular permeability with dynamic contrast-enhanced MRI for the differentiation of primary CNS lymphoma and glioblastoma: radiologic-pathologic correlation. *American Journal of Neuroradiology*, **2014**, 35, 1503-8	4.4	68
16	Assessing CpG island methylator phenotype, 1p/19q codeletion, and MGMT promoter methylation from epigenome-wide data in the biomarker cohort of the NOA-04 trial. *Neuro-Oncology*, **2014**, 16, 1630-8	1	59
15	Primary central nervous system lymphoma and atypical glioblastoma: multiparametric differentiation by using diffusion-, perfusion-, and susceptibility-weighted MR imaging. *Radiology*, **2014**, 272, 843-50	20.5	110
14	Nuclear overhauser enhancement mediated chemical exchange saturation transfer imaging at 7 Tesla in glioblastoma patients. *PLoS ONE*, **2014**, 9, e104181	3.7	43
13	ATRX loss refines the classification of anaplastic gliomas and identifies a subgroup of IDH mutant astrocytic tumors with better prognosis. *Acta Neuropathologica*, **2013**, 126, 443-51	14.3	239
12	Distribution of TERT promoter mutations in pediatric and adult tumors of the nervous system. *Acta Neuropathologica*, **2013**, 126, 907-15	14.3	211
11	Prognostic or predictive value of MGMT promoter methylation in gliomas depends on IDH1 mutation. *Neurology*, **2013**, 81, 1515-22	6.5	160
10	Differentiation of glioblastoma and primary CNS lymphomas using susceptibility weighted imaging. *European Journal of Radiology*, **2013**, 82, 552-6	4.7	49
9	Quantitative susceptibility mapping differentiates between blood depositions and calcifications in patients with glioblastoma. *PLoS ONE*, **2013**, 8, e57924	3.7	106
8	Malignant astrocytomas of elderly patients lack favorable molecular markers: an analysis of the NOA-08 study collective. *Neuro-Oncology*, **2013**, 15, 1017-26	1	65
7	Bevacizumab alone or in combination with irinotecan in recurrent WHO grade II and grade III gliomas. *European Neurology*, **2013**, 69, 95-101	2.1	20
6	Protein kinase C□s a therapeutic target stabilizing blood-brain barrier disruption in experimental autoimmune encephalomyelitis. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 14735-40	11.5	41
5	Hotspot mutations in H3F3A and IDH1 define distinct epigenetic and biological subgroups of glioblastoma. *Cancer Cell*, **2012**, 22, 425-37	24.3	1243
4	Differentiation of brain metastases by percentagewise quantification of intratumoral-susceptibility-signals at 3Tesla. *European Journal of Radiology*, **2012**, 81, 4064-8	4.7	17
3	Relevance of T2 signal changes in the assessment of progression of glioblastoma according to the Response Assessment in Neurooncology criteria. *Neuro-Oncology*, **2012**, 14, 222-9	1	65
2	Neuroradiological response criteria for high-grade gliomas. *Clinical Neuroradiology*, **2011**, 21, 199-205	2.7	22
1	Basal caspase activity promotes migration and invasiveness in glioblastoma cells. *Molecular Cancer Research*, **2007**, 5, 1232-40	6.6	66