Christopher Nimsky

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Quantification of, Visualization of, and Compensation for Brain Shift Using Intraoperative Magnetic Resonance Imaging. Neurosurgery, 2000, 47, 1070-1080. | 1.1 | 514 |
| 2 | A Clinical Trial of Progesterone for Severe Traumatic Brain Injury. New England Journal of Medicine, 2014, 371, 2467-2476. | 27.0 | 404 |
| 3 | Preoperative and Intraoperative Diffusion Tensor Imaging-based Fiber Tracking in Glioma Surgery. Neurosurgery, 2005, 56, 130-138. | 1.1 | 379 |
| 4 | Intraoperative Magnetic Resonance Imaging with the Magnetom Open Scanner: Concepts, Neurosurgical Indications, and Procedures: A Preliminary Report. Neurosurgery, 1998, 43, 739-747. | 1.1 | 338 |
| 5 | CLINICAL EVALUATION AND FOLLOW-UP OUTCOME OF DIFFUSION TENSOR IMAGING-BASED FUNCTIONAL NEURONAVIGATION. Neurosurgery, 2007, 61, 935-949. | 1.1 | 320 |
| 6 | INTRAOPERATIVE SUBCORTICAL LANGUAGETRACT MAPPING GUIDES SURGICAL REMOVALOF GLIOMAS INVOLVING SPEECH AREAS. Neurosurgery, 2007, 60, 67-82. | 1.1 | 273 |
| 7 | Intraoperative High-Field-Strength MR Imaging: Implementation and Experience in 200 Patients. Radiology, 2004, 233, 67-78. | 7.3 | 260 |
| 8 | Correlation of the extent of tumor volume resection and patient survival in surgery of glioblastoma multiforme with high-field intraoperative MRI guidance. Neuro-Oncology, 2011, 13, 1339-1348. | 1.2 | 258 |
| 9 | Intraoperative Diffusion-Tensor MR Imaging: Shifting of White Matter Tracts during Neurosurgical Procedures—Initial Experience. Radiology, 2005, 234, 218-225. | 7.3 | 235 |
| 10 | Intraoperative visualization of the pyramidal tract by diffusion-tensor-imaging-based fiber tracking. NeuroImage, 2006, 30, 1219-1229. | 4.2 | 228 |
| 11 | Intraoperative compensation for brain shift. World Neurosurgery, 2001, 56, 357-364. | 1.3 | 199 |
| 12 | Functional neuronavigation with magnetoencephalography: outcome in 50 patients with lesions around the motor cortex. Journal of Neurosurgery, 1999, 91, 73-79. | 1.6 | 193 |
| 13 | GBM Volumetry using the 3D Slicer Medical Image Computing Platform. Scientific Reports, 2013, 3, 1364. | 3.3 | 185 |
| 14 | Intraoperative visualization for resection of gliomas: the role of functional neuronavigation and intraoperative 1.5 T MRI. Neurological Research, 2006, 28, 482-487. | 1.3 | 184 |
| 15 | Intraoperative magnetic resonance imaging during transsphenoidal surgery. Journal of Neurosurgery, 2001, 95, 381-390. | 1.6 | 181 |
| 16 | Gliomas: Histopathologic Evaluation of Changes in Directionality and Magnitude of Water Diffusion at Diffusion-Tensor MR Imaging. Radiology, 2006, 240, 803-810. | 7.3 | 181 |
| 17 | Seizure outcome and use of antiepileptic drugs after epilepsy surgery according to histopathological diagnosis: a retrospective multicentre cohort study. Lancet Neurology, The, 2020, 19, 748-757. | 10.2 | 177 |
| 18 | Integration of Functional Magnetic Resonance Imaging Supported by Magnetoencephalography in Functional Neuronavigation. Neurosurgery, 1999, 44, 1249-1256. | 1.1 | 171 |

| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Functional Magnetic Resonance Imaging-integrated Neuronavigation: Correlation between Lesion-to-Motor Cortex Distance and Outcome. Neurosurgery, 2004, 55, 904-915. | 1.1 | 168 |
| 20 | Preoperative Grading of Gliomas by Using Metabolite Quantification with High-Spatial-Resolution Proton MR Spectroscopic Imaging. Radiology, 2006, 238, 958-969. | 7.3 | 168 |
| 21 | Small interfering RNA–mediated xCT silencing in gliomas inhibits neurodegeneration and alleviates brain edema. Nature Medicine, 2008, 14, 629-632. | 30.7 | 166 |
| 22 | Operative treatment of prolactinomas: indications and results in a current consecutive series of 212 patients. European Journal of Endocrinology, 2008, 158, 11-18. | 3.7 | 157 |
| 23 | The Natural History of Cerebral Dural Arteriovenous Fistulae. Neurosurgery, 2012, 71, 594-603. | 1.1 | 154 |
| 24 | PREOPERATIVE AND INTRAOPERATIVE DIFFUSION TENSOR IMAGING-BASED FIBER TRACKING IN GLIOMA SURGERY. Neurosurgery, 2007, 61, 130-138. | 1.1 | 149 |
| 25 | Volumetric Assessment of Glioma Removal by Intraoperative High-field Magnetic Resonance Imaging. Neurosurgery, 2004, 55, 358-371. | 1.1 | 148 |
| 26 | Prognostic Value of Residual Fluorescent Tissue in Glioblastoma Patients After Gross Total Resection in 5-Aminolevulinic Acid-Guided Surgery. Neurosurgery, 2013, 72, 915-921. | 1.1 | 148 |
| 27 | Correlation of Sensorimotor Activation with Functional Magnetic Resonance Imaging and Magnetoencephalography in Presurgical Functional Imaging: A Spatial Analysis. NeuroImage, 2001, 14, 1214-1228. | 4.2 | 147 |
| 28 | Intraoperative High-Field Magnetic Resonance Imaging in Transsphenoidal Surgery of Hormonally Inactivepituitary Macroadenomas. Neurosurgery, 2006, 59, 105-114. | 1.1 | 145 |
| 29 | Strategies for brain shift evaluation. Medical Image Analysis, 2004, 8, 447-464. | 11.6 | 143 |
| 30 | Prediction of visual field deficits by diffusion tensor imaging in temporal lobe epilepsy surgery. Neurolmage, 2009, 45, 286-297. | 4.2 | 135 |
| 31 | Intraoperative Magnetic Resonance Imaging Combined with Neuronavigation: A New Concept. Neurosurgery, 2001, 48, 1082-1091. | 1.1 | 130 |
| 32 | THREE-DIMENSIONAL MICROSURGICAL AND TRACTOGRAPHIC ANATOMY OF THE WHITE MATTER OF THE HUMAN BRAIN. Neurosurgery, 2008, 62, SHC989-SHC1028. | 1.1 | 130 |
| 33 | Diffusion tensor imaging and white matter tractography in patients with brainstem lesions. Acta Neurochirurgica, 2007, 149, 1117-1131. | 1.7 | 127 |
| 34 | Imaging of human brain tumor tissue by near-infrared laser coherence tomography. Acta Neurochirurgica, 2009, 151, 507-517. | 1.7 | 121 |
| 35 | Improved delineation of brain tumors: an automated method for segmentation based on pathologic changes of 1H-MRSI metabolites in gliomas. NeuroImage, 2004, 23, 454-461. | 4.2 | 118 |
| 36 | Diffusion tensor imaging and optimized fiber tracking in glioma patients: Histopathologic evaluation of tumor-invaded white matter structures. NeuroImage, 2007, 34, 949-956. | 4.2 | 117 |

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| 37 | Computational modeling of the WHO grade II glioma dynamics: principles and applications to management paradigm. Neurosurgical Review, 2008, 31, 263-269. | 2.4 | 113 |
| 38 | Localisation of the sensorimotor cortex during surgery for brain tumours: feasibility and waveform patterns of somatosensory evoked potentials. Journal of Neurology, Neurosurgery and Psychiatry, 2002, 72, 221-229. | 1.9 | 112 |
| 39 | Intraoperative identification of motor areas of the rhomboid fossa using direct stimulation. Journal of Neurosurgery, 1993, 79, 393-399. | 1.6 | 109 |
| 40 | FUNCTIONAL BRAIN MAPPING AND ITS APPLICATIONS TO NEUROSURGERY. Operative Neurosurgery, 2007, 60, 185-202. | 0.8 | 109 |
| 41 | Integration of Functional Magnetic Resonance Imaging Supported by Magnetoencephalography in Functional Neuronavigation. Neurosurgery, 1999, 44, 1249-1255. | 1.1 | 106 |
| 42 | Intraoperative functional MRI: Implementation and preliminary experience. Neurolmage, 2005, 26, 685-693. | 4.2 | 104 |
| 43 | DIFFUSION TENSOR TRACTOGRAPHY PREDICTS MOTOR FUNCTIONAL OUTCOME IN PATIENTS WITH SPONTANEOUS INTRACEREBRAL HEMORRHAGE. Neurosurgery, 2008, 62, 97-103. | 1.1 | 102 |
| 44 | Intra-operative magnetic resonance imaging in neurosurgery. Acta Neurochirurgica, 2004, 146, 543-557. | 1.7 | 101 |
| 45 | A systematic review of functional magnetic resonance imaging and diffusion tensor imaging modalities used in presurgical planning of brain tumour resection. Neurosurgical Review, 2013, 36, 205-214. | 2.4 | 99 |
| 46 | Implementation of Fiber Tract Navigation. Operative Neurosurgery, 2006, 58, ONS-292-ONS-304. | 0.8 | 98 |
| 47 | Transsphenoidal surgery in acromegaly investigated by intraoperative high-field magnetic resonance imaging. European Journal of Endocrinology, 2005, 153, 239-248. | 3.7 | 95 |
| 48 | Comparison of navigated 3D ultrasound findings with histopathology in subsequent phases of glioblastoma resection. Acta Neurochirurgica, 2008, 150, 1033-1042. | 1.7 | 95 |
| 49 | New approach to localize speech relevant brain areas and hemispheric dominance using spatially filtered magnetoencephalography. Human Brain Mapping, 2001, 14, 236-250. | 3.6 | 94 |
| 50 | Diffusion tensor–based fiber tracking and intraoperative neuronavigation for the resection of a brainstem cavernous angioma. World Neurosurgery, 2007, 68, 285-291. | 1.3 | 94 |
| 51 | Metabolic Imaging of Cerebral Gliomas: Spatial Correlation of Changes in <i>O</i> -(2- ¹⁸ F-Fluoroethyl)-l-Tyrosine PET and Proton Magnetic Resonance Spectroscopic Imaging. Journal of Nuclear Medicine, 2008, 49, 721-729. | 5.0 | 89 |
| 52 | Combining fMRI and MEG increases the reliability of presurgical language localization: A clinical study on the difference between and congruence of both modalities. NeuroImage, 2006, 32, 1793-1803. | 4.2 | 88 |
| 53 | The Stem Cell Marker Prominin-1/CD133 on Membrane Particles in Human Cerebrospinal Fluid Offers Novel Approaches for Studying Central Nervous System Disease. Stem Cells, 2008, 26, 698-705. | 3.2 | 87 |
| 54 | ADAM8 as a drug target in pancreatic cancer. Nature Communications, 2015, 6, 6175. | 12.8 | 85 |

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| 55 | Low-field magnetic resonance imaging for intraoperative use in neurosurgery: a 5-year experience. European Radiology, 2002, 12, 2690-2703. | 4.5 | 82 |
| 56 | Magnetic source imaging supports clinical decision making in glioma patients. Clinical Neurology and Neurosurgery, 2004, 107, 20-26. | 1.4 | 82 |
| 57 | Comparing 0.2 Tesla With 1.5 Tesla Intraoperative Magnetic Resonance Imaging. Academic Radiology, 2005, 12, 1065-1079. | 2.5 | 81 |
| 58 | Cellular characterization of the peritumoral edema zone in malignant brain tumors. Cancer Science, 2009, 100, 1856-1862. | 3.9 | 79 |
| 59 | Flat-panel detector volumetric CT for visualization of subarachnoid hemorrhage and ventricles: preliminary results compared to conventional CT. Neuroradiology, 2008, 50, 517-523. | 2.2 | 74 |
| 60 | Intraoperative Visualization of Fiber Tracking Based Reconstruction of Language Pathways in Glioma Surgery. Neurosurgery, 2012, 70, 911-920. | 1.1 | 73 |
| 61 | Implementation of augmented reality support in spine surgery. European Spine Journal, 2019, 28, 1697-1711. | 2.2 | 73 |
| 62 | Quantification of Glioma Removal by Intraoperative High-Field Magnetic Resonance Imaging: An Update. Neurosurgery, 2011, 69, 852-863. | 1.1 | 72 |
| 63 | Intraoperative imaging with open magnetic resonance imaging and neuronavigation. Child's Nervous System, 2000, 16, 829-831. | 1.1 | 71 |
| 64 | Brain Shift Compensation and Neurosurgical Image Fusion Using Intraoperative MRI: Current Status and Future Challenges. Critical Reviews in Biomedical Engineering, 2012, 40, 175-185. | 0.9 | 71 |
| 65 | Pituitary Adenoma Volumetry with 3D Slicer. PLoS ONE, 2012, 7, e51788. | 2.5 | 69 |
| 66 | Use of Intraoperative Magnetic Resonance Imaging in Tailored Temporal Lobe Surgeries for Epilepsy. Epilepsia, 2002, 43, 864-873. | 5.1 | 68 |
| 67 | Adaptation of a Hexapod-Based Robotic System for Extended Endoscope-Assisted Transsphenoidal Skull Base Surgery. Minimally Invasive Neurosurgery, 2004, 47, 41-46. | 0.9 | 66 |
| 68 | Visualization of the Pyramidal Tract in Glioma Surgery by Integrating Diffusion Tensor Imaging in Functional Neuronavigation. Zentralblatt Fur Neurochirurgie, 2005, 66, 133-141. | 0.5 | 66 |
| 69 | Proton Magnetic Resonance Spectroscopic Imaging Integrated into Image-guided Surgery: Correlation to Standard Magnetic Resonance Imaging and Tumor Cell Density. Operative Neurosurgery, 2005, 56, ONS-291-ONS-298. | 0.8 | 65 |
| 70 | Determination of the elasticity parameters of brain tissue with combined simulation and registration. International Journal of Medical Robotics and Computer Assisted Surgery, 2005, 1, 87-95. | 2.3 | 65 |
| 71 | Integration of biochemical images of a tumor into frameless stereotaxy achieved using a magnetic resonance imaging/magnetic resonance spectroscopy hybrid data set. Journal of Neurosurgery, 2004, 101, 287-294. | 1.6 | 63 |
| 72 | Neuronavigation: concept, techniques and applications. Neurology India, 2002, 50, 244-55. | 0.4 | 63 |

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| 73 | Follow-up and long-term outcome of nonfunctioning pituitary adenoma operated by transsphenoidal surgery with intraoperative high-field magnetic resonance imaging. Acta Neurochirurgica, 2014, 156, 2233-2243. | 1.7 | 61 |
| 74 | Patient Perception of Combined Awake Brain Tumor Surgery and Intraoperative 1.5-T Magnetic Resonance Imaging. Neurosurgery, 2010, 67, 594-600. | 1.1 | 57 |
| 75 | Development and characterization of new nanoscaled ultrasound active lipid dispersions as contrast agents. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 77, 430-437. | 4.3 | 57 |
| 76 | Robust Detection and Segmentation for Diagnosis of Vertebral Diseases Using Routine MR Images. Computer Graphics Forum, 2014, 33, 190-204. | 3.0 | 54 |
| 77 | Frameless Stereotactic Brain Biopsy Procedures Using the Stealth Station: Indications, Accuracy and Results. Zentralblatt Fur Neurochirurgie, 2003, 64, 166-170. | 0.5 | 51 |
| 78 | Molecular profiling of the tumor microenvironment in glioblastoma patients: correlation of microglia/macrophage polarization state with metalloprotease expression profiles and survival. Bioscience Reports, 2019, 39, . | 2.4 | 51 |
| 79 | ADAM8 in invasive cancers: links to tumor progression, metastasis, and chemoresistance. Clinical Science, 2019, 133, 83-99. | 4.3 | 51 |
| 80 | Periventricular nodular heterotopia: A challenge for epilepsy surgery. Seizure: the Journal of the British Epilepsy Association, 2007, 16, 81-86. | 2.0 | 50 |
| 81 | INTRAOPERATIVE MAGNETIC RESONANCE IMAGING AT 3-T USING A DUAL INDEPENDENT OPERATING ROOM-MAGNETIC RESONANCE IMAGING SUITE. Neurosurgery, 2008, 63, 412-426. | 1.1 | 50 |
| 82 | Square-Cut: A Segmentation Algorithm on the Basis of a Rectangle Shape. PLoS ONE, 2012, 7, e31064. | 2.5 | 49 |
| 83 | Merits and Limits of Tractography Techniques for the Uninitiated. Advances and Technical Standards in Neurosurgery, 2016, , 37-60. | 0.5 | 49 |
| 84 | Intraoperative magnetic resonance imaging-guided transsphenoidal surgery for giant pituitary adenomas. Neurosurgical Review, 2010, 33, 83-90. | 2.4 | 48 |
| 85 | Neuroendovascular Optical Coherence Tomography Imaging and Histological Analysis. Neurosurgery, 2011, 69, 430-439. | 1.1 | 48 |
| 86 | The metalloprotease-disintegrin ADAM8 contributes to temozolomide chemoresistance and enhanced invasiveness of human glioblastoma cells. Neuro-Oncology, 2015, 17, 1474-1485. | 1.2 | 48 |
| 87 | Interaction of Discoidin Domain Receptor 1 with a 14-3-3-Beclin-1-Akt1 Complex Modulates Glioblastoma Therapy Sensitivity. Cell Reports, 2019, 26, 3672-3683.e7. | 6.4 | 48 |
| 88 | Intraoperative magnetic resonance imaging in epilepsy surgery. Journal of Magnetic Resonance Imaging, 2000, 12, 547-555. | 3.4 | 47 |
| 89 | Image-Guided Removal of Supratentorial Cavernomas in Critical Brain Areas: Application of Neuronavigation and Intraoperative Magnetic Resonance Imaging. Minimally Invasive Neurosurgery, 2003, 46, 72-77. | 0.9 | 47 |
| 90 | Integration of the OpenIGTLink Network Protocol for imageâ€guided therapy with the medical platform MeVisLab. International Journal of Medical Robotics and Computer Assisted Surgery, 2012, 8, 282-290. | 2.3 | 47 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Microscope-Based Augmented Reality in Degenerative Spine Surgery: Initial Experience. World Neurosurgery, 2019, 128, e541-e551. | 1.3 | 47 |
| 92 | Spine Surgery Supported by Augmented Reality. Global Spine Journal, 2020, 10, 41S-55S. | 2.3 | 47 |
| 93 | Proton Magnetic Resonance Spectroscopic Imaging in the Border Zone of Gliomas. Investigative Radiology, 2007, 42, 218-223. | 6.2 | 46 |
| 94 | Comparison of navigated transcranial magnetic stimulation and functional magnetic resonance imaging for preoperative mapping in rolandic tumor surgery. Neurosurgical Review, 2013, 36, 65-76. | 2.4 | 46 |
| 95 | Pre- and Intraoperative Tractographic Evaluation of Corticospinal Tract Shift. Neurosurgery, 2011, 69, 696-705. | 1.1 | 45 |
| 96 | Augmented reality in intradural spinal tumor surgery. Acta Neurochirurgica, 2019, 161, 2181-2193. | 1.7 | 45 |
| 97 | Open surgery of giant paraclinoid aneurysms improved by intraoperative angiography and endovascular retrograde suction decompression. Acta Neurochirurgica, 1997, 139, 1026-1032. | 1.7 | 44 |
| 98 | Limited Benefit of Intraoperative Low-field Magnetic Resonance Imaging in Craniopharyngioma Surgery. Neurosurgery, 2003, 53, 72-81. | 1.1 | 44 |
| 99 | ERRATA. Neurosurgery, 2013, 73, E913. | 1.1 | 44 |
| 100 | An Automated Robotic Approach with Redundant Navigation for Minimal Invasive Extended Transsphenoidal Skull Base Surgery. Minimally Invasive Neurosurgery, 2005, 48, 159-164. | 0.9 | 43 |
| 101 | INTRAOPERATIVE FLUORESCENCE STAINING OF MALIGNANT BRAIN TUMORS USING 5-AMINOFLUORESCEIN-LABELED ALBUMIN. Operative Neurosurgery, 2009, 64, ons53-ons61. | 0.8 | 43 |
| 102 | INTRAOPERATIVE COMPUTED TOMOGRAPHY WITH INTEGRATED NAVIGATION SYSTEM IN A MULTIDISCIPLINARY OPERATING SUITE. Operative Neurosurgery, 2009, 64, ons231-ons240. | 0.8 | 42 |
| 103 | ADAM8 expression in breast cancer derived brain metastases: Functional implications on MMPâ€9 expression and transendothelial migration in breast cancer cells. International Journal of Cancer, 2018, 142, 779-791. | 5.1 | 42 |
| 104 | Intraoperative Low-Field Magnetic Resonance Imaging in Pediatric Neurosurgery. Pediatric Neurosurgery, 2003, 38, 83-89. | 0.7 | 41 |
| 105 | Detection of tumour invasion into the pyramidal tract in glioma patients with sensorimotor deficits by correlation of 18F-fluoroethyl-L-tyrosine PET and magnetic resonance diffusion tensor imaging. Acta Neurochirurgica, 2009, 151, 1061-1069. | 1.7 | 41 |
| 106 | Optic Radiation Fiber Tractography in Glioma Patients Based on High Angular Resolution Diffusion Imaging with Compressed Sensing Compared with Diffusion Tensor Imaging - Initial Experience. PLoS ONE, 2013, 8, e70973. | 2.5 | 41 |
| 107 | Cube-Cut: Vertebral Body Segmentation in MRI-Data through Cubic-Shaped Divergences. PLoS ONE, 2014, 9, e93389. | 2.5 | 41 |
| 108 | Hybrid Visualization for White Matter Tracts using Triangle Strips and Point Sprites. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1181-1188. | 4.4 | 40 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Intraoperative Real-Time Querying of White Matter Tracts During Frameless Stereotactic Neuronavigation. Neurosurgery, 2011, 68, 506-516. | 1.1 | 40 |
| 110 | Manual Refinement System for Graph-Based Segmentation Results in the Medical Domain. Journal of Medical Systems, 2012, 36, 2829-2839. | 3.6 | 40 |
| 111 | Intraoperative DTI and brain mapping for surgery of neoplasm of the motor cortex and the corticospinal tract: our protocol and series in BrainSUITE. Neurosurgical Review, 2012, 35, 401-412. | 2.4 | 40 |
| 112 | Intraoperative high-field MRI for transsphenoidal reoperations of nonfunctioning pituitary adenoma. Journal of Neurosurgery, 2014, 121, 1166-1175. | 1.6 | 40 |
| 113 | Correction of susceptibility artifacts in diffusion tensor data using non-linear registration. Medical Image Analysis, 2007, 11, 588-603. | 11.6 | 39 |
| 114 | Intraoperative Magnetic Resonance Imaging Combined with Neuronavigation: A New Concept. Neurosurgery, 2001, 48, 1082-1091. | 1.1 | 39 |
| 115 | Reliable navigation registration in cranial and spine surgery based on intraoperative computed tomography. Neurosurgical Focus, 2019, 47, E11. | 2.3 | 38 |
| 116 | Application Accuracy of Automatic Registration in Frameless Stereotaxy. Stereotactic and Functional Neurosurgery, 2006, 84, 109-117. | 1.5 | 37 |
| 117 | IMPLEMENTATION OF FIBER TRACT NAVIGATION. Neurosurgery, 2007, 61, ONS-292-ONS-304. | 1.1 | 37 |
| 118 | The role of sphingosine kinase isoforms and receptors S1P1, S1P2, S1P3, and S1P5 in primary, secondary, and recurrent glioblastomas. Tumor Biology, 2014, 35, 8979-8989. | 1.8 | 37 |
| 119 | Augmented Reality in Transsphenoidal Surgery. World Neurosurgery, 2019, 125, e873-e883. | 1.3 | 37 |
| 120 | Anesthesia During High-field Intraoperative Magnetic Resonance Imaging Experience with 80 Consecutive Cases. Journal of Neurosurgical Anesthesiology, 2003, 15, 255-262. | 1.2 | 36 |
| 121 | How to overcome the limitations to determine the resection margin of pituitary tumours with low-field intra-operative MRI during trans-sphenoidal surgery: usefulness of Gadolinium-soaked cotton pledgets. Acta Neurochirurgica, 2008, 150, 763-771. | 1.7 | 35 |
| 122 | The MRI volumetry of the posterior fossa and its substructures in trigeminal neuralgia: a validated study. Acta Neurochirurgica, 2009, 151, 669-675. | 1.7 | 35 |
| 123 | Nonâ€invasive detection of hippocampal sclerosis: correlation between metabolite alterations detected by ¹ Hâ€MRS and neuropathology. NMR in Biomedicine, 2008, 21, 545-552. | 2.8 | 34 |
| 124 | DYNACT SOFT-TISSUE VISUALIZATION USING AN ANGIOGRAPHIC C-ARM SYSTEM. Operative Neurosurgery, 2008, 62, 266-272. | 0.8 | 33 |
| 125 | Intraoperative computed tomography as reliable navigation registration device in 200 cranial procedures. Acta Neurochirurgica, 2018, 160, 1681-1689. | 1.7 | 33 |
| 126 | 1.5 T: intraoperative imaging beyond standard anatomic imaging. Neurosurgery Clinics of North America, 2005, 16, 185-200. | 1.7 | 32 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Optimizing costs of intraoperative magnetic resonance imaging. A series of 29 glioma cases. Acta Neurochirurgica, 2010, 152, 27-33. | 1.7 | 32 |
| 128 | Metalloproteinases ADAM12 and MMPâ€l4 are associated with cavernous sinus invasion in pituitary adenomas. International Journal of Cancer, 2016, 139, 1327-1339. | 5.1 | 32 |
| 129 | Resective surgery for medically refractory epilepsy using intraoperative MRI and functional neuronavigation: the Erlangen experience of 415 patients. Neurosurgical Focus, 2016, 40, E15. | 2.3 | 32 |
| 130 | Intraoperative Acquisition of fMRI and DTI. Neurosurgery Clinics of North America, 2011, 22, 269-277. | 1.7 | 31 |
| 131 | Therapeutic Impact of Human Bone Marrow Stromal Cells Expanded by Animal Serum–Free Medium for Cerebral Infarct in Rats. Neurosurgery, 2011, 68, 1733-1742. | 1.1 | 30 |
| 132 | Intraoperative MRI and Functional Mapping. Acta Neurochirurgica Supplementum, 2011, 109, 61-65. | 1.0 | 30 |
| 133 | Local and Remote Visualization Techniques for Interactive Direct Volume Rendering in Neuroradiology. Radiographics, 2001, 21, 1561-1572. | 3.3 | 29 |
| 134 | Fiber Tracking—We Should Move Beyond Diffusion Tensor Imaging. World Neurosurgery, 2014, 82, 35-36. | 1.3 | 29 |
| 135 | Meta-analysis of Statin Use for the Acute Therapy of Spontaneous Intracerebral Hemorrhage. Journal of Stroke and Cerebrovascular Diseases, 2015, 24, 2521-2526. | 1.6 | 29 |
| 136 | Registration techniques for the analysis of the brain shift in neurosurgery. Computers and Graphics, 2000, 24, 385-389. | 2.5 | 28 |
| 137 | Co-Registration of Function and Anatomy in Frameless Stereotaxy by Contour Fitting. Stereotactic and Functional Neurosurgery, 2002, 79, 272-283. | 1.5 | 28 |
| 138 | Updating Navigation With Intraoperative Image Data. Topics in Magnetic Resonance Imaging, 2008, 19, 197-204. | 1.2 | 28 |
| 139 | A Medical Software System for Volumetric Analysis of Cerebral Pathologies in Magnetic Resonance Imaging (MRI) Data. Journal of Medical Systems, 2012, 36, 2097-2109. | 3.6 | 28 |
| 140 | Interactive-cut: Real-time feedback segmentation for translational research. Computerized Medical Imaging and Graphics, 2014, 38, 285-295. | 5.8 | 28 |
| 141 | Multimodal Navigation Integrated with Imaging. Acta Neurochirurgica Supplementum, 2011, 109, 207-214. | 1.0 | 28 |
| 142 | INTRAOPERATIVE HIGH-FIELD MAGNETIC RESONANCE IMAGING IN TRANSSPHENOIDAL SURGERY OF HORMONALLY INACTIVEPITUITARY MACROADENOMAS. Neurosurgery, 2006, 59, 105-114. | 1.1 | 28 |
| 143 | BRAINSTEM CORTICOSPINAL TRACT DIFFUSION TENSOR IMAGING IN PATIENTS WITH PRIMARY POSTERIOR FOSSA NEOPLASMS STRATIFIED BY TUMOR TYPE. Neurosurgery, 2007, 61, 1199-1208. | 1.1 | 27 |
| 144 | ECG Artifacts During Intraoperative High-Field MRI Scanning. Journal of Neurosurgical Anesthesiology, 2004, 16, 271-276. | 1.2 | 26 |

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| 145 | Proton magnetic resonance spectroscopy in pituitary macroadenomas: preliminary results. Journal of Neurosurgery, 2008, 109, 306-312. | 1.6 | 26 |
| 146 | A management algorithm for cerebrospinal fluid leak associated with anterior skull base fractures: detailed clinical and radiological follow-up. Neurosurgical Review, 2012, 35, 227-238. | 2.4 | 24 |
| 147 | Imaging-based programming of subthalamic nucleus deep brain stimulation in Parkinson's disease. Brain Stimulation, 2021, 14, 1109-1117. | 1.6 | 24 |
| 148 | A standardised evaluation of pre-surgical imaging of the corticospinal tract: where to place the seed ROI. Neurosurgical Review, 2009, 32, 445-456. | 2.4 | 23 |
| 149 | Trigonal and peritrigonal lesions of the lateral ventricle—surgical considerations and outcome analysis of 20 patients. Neurosurgical Review, 2010, 33, 457-464. | 2.4 | 23 |
| 150 | Boundary estimation of fiber bundles derived from diffusion tensor images. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 1-11. | 2.8 | 23 |
| 151 | Template-Cut: A Pattern-Based Segmentation Paradigm. Scientific Reports, 2012, 2, 420. | 3.3 | 23 |
| 152 | Frameless Stereotactic Surgery Using Intraoperative High-Field Magnetic Resonance Imaging. Neurologia Medico-Chirurgica, 2004, 44, 522-534. | 2.2 | 22 |
| 153 | Nugget-Cut: A Segmentation Scheme for Spherically- and Elliptically-Shaped 3D Objects. Lecture Notes in Computer Science, 2010, , 373-382. | 1.3 | 22 |
| 154 | Intraoperative MRI in glioma surgery: proof of benefit?. Lancet Oncology, The, 2011, 12, 982-983. | 10.7 | 22 |
| 155 | Treatment of Central Deafferentation and Trigeminal Neuropathic Pain by Motor Cortex Stimulation: Report of a Series of 20 Patients. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2016, 77, 052-058. | 0.8 | 22 |
| 156 | Gender gap in deep brain stimulation for Parkinson's disease. Npj Parkinson's Disease, 2022, 8, 47. | 5.3 | 22 |
| 157 | Technology in the resection of gliomas and the definition of madness. Journal of Neurosurgery, 2004, 101, 284-286. | 1.6 | 21 |
| 158 | Teleradiology in neurosurgery: experience in 1024 cases. Journal of Telemedicine and Telecare, 2008, 14, 67-70. | 2.7 | 21 |
| 159 | A COMPARATIVE ANALYSIS OF COREGISTERED ULTRASOUND AND MAGNETIC RESONANCE IMAGING IN NEUROSURGERY. Operative Neurosurgery, 2008, 62, 91-101. | 0.8 | 21 |
| 160 | Clinical application of a neuronavigation system in transsphenoidal surgery of pituitary macroadenoma. Neurosurgical Review, 2006, 29, 306-312. | 2.4 | 20 |
| 161 | Classification of Peritumoral Fiber Tract Alterations in Gliomas Using Metabolic and Structural Neuroimaging. Journal of Nuclear Medicine, 2011, 52, 1227-1234. | 5.0 | 20 |
| 162 | Intraoperative Visualization of Residual Tumor. Operative Neurosurgery, 2013, 72, ons151-ons158. | 0.8 | 20 |

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