

Gabriele Schackert

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,489
citations

361413

20
h-index

149698

56
g-index

71
all docs

71
docs citations

71
times ranked

6675
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | DNA methylation-based classification of central nervous system tumours. <i>Nature</i> , 2018, 555, 469-474. | 27.8 | 1,872 |
| 2 | 3D Reconstitution of the Patterned Neural Tube from Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2014, 3, 987-999. | 4.8 | 175 |
| 3 | DAP12-Based Activating Chimeric Antigen Receptor for NK Cell Tumor Immunotherapy. <i>Journal of Immunology</i> , 2015, 194, 3201-3212. | 0.8 | 175 |
| 4 | Label-Free Delineation of Brain Tumors by Coherent Anti-Stokes Raman Scattering Microscopy in an Orthotopic Mouse Model and Human Glioblastoma. <i>PLoS ONE</i> , 2014, 9, e107115. | 2.5 | 77 |
| 5 | Raman and infrared spectroscopic mapping of human primary intracranial tumors: a comparative study. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 367-375. | 2.5 | 76 |
| 6 | Radiographic assessment of contrast enhancement and T2/FLAIR mismatch sign in lower grade gliomas: correlation with molecular groups. <i>Journal of Neuro-Oncology</i> , 2019, 141, 327-335. | 2.9 | 72 |
| 7 | Intrinsic Indicator of Photodamage during Label-Free Multiphoton Microscopy of Cells and Tissues. <i>PLoS ONE</i> , 2014, 9, e110295. | 2.5 | 69 |
| 8 | PI3K Pathway Inhibition Achieves Potent Antitumor Activity in Melanoma Brain Metastases <i>In Vitro</i> and <i>In Vivo</i> . <i>Clinical Cancer Research</i> , 2016, 22, 5818-5828. | 7.0 | 68 |
| 9 | DMD genomic deletions characterize a subset of progressive/higher-grade meningiomas with poor outcome. <i>Acta Neuropathologica</i> , 2018, 136, 779-792. | 7.7 | 66 |
| 10 | DNA methylation-based classification of ependymomas in adulthood: implications for diagnosis and treatment. <i>Neuro-Oncology</i> , 2018, 20, 1616-1624. | 1.2 | 65 |
| 11 | Peripheral nerve field stimulation for trigeminal neuralgia, trigeminal neuropathic pain, and persistent idiopathic facial pain. <i>Cephalalgia</i> , 2016, 36, 445-453. | 3.9 | 53 |
| 12 | Targeted sequencing of SMO and AKT1 in anterior skull base meningiomas. <i>Journal of Neurosurgery</i> , 2017, 127, 438-444. | 1.6 | 48 |
| 13 | A Poly(Propyleneimine) Dendrimer-Based Polyplex-System for Single-Chain Antibody-Mediated Targeted Delivery and Cellular Uptake of siRNA. <i>Small</i> , 2017, 13, 1700072. | 10.0 | 39 |
| 14 | Chromosomal instability induced by increased BIRC5/Survivin levels affects tumorigenicity of glioma cells. <i>BMC Cancer</i> , 2017, 17, 889. | 2.6 | 36 |
| 15 | IDH1 mutation in human glioma induces chemical alterations that are amenable to optical Raman spectroscopy. <i>Journal of Neuro-Oncology</i> , 2018, 139, 261-268. | 2.9 | 35 |
| 16 | Effects of tissue fixation on coherent anti-Stokes Raman scattering images of brain. <i>Journal of Biomedical Optics</i> , 2013, 19, 071402. | 2.6 | 33 |
| 17 | Targeted delivery of TLR3 agonist to tumor cells with single chain antibody fragment-conjugated nanoparticles induces type I-interferon response and apoptosis. <i>Scientific Reports</i> , 2019, 9, 3299. | 3.3 | 30 |
| 18 | Non-functionalized soft alginate hydrogel promotes locomotor recovery after spinal cord injury in a rat hemimyelonectomy model. <i>Acta Neurochirurgica</i> , 2018, 160, 449-457. | 1.7 | 29 |

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|----|--|-----|-----------|
| 19 | Rapid Label-Free Analysis of Brain Tumor Biopsies by Near Infrared Raman and Fluorescence Spectroscopy—A Study of 209 Patients. <i>Frontiers in Oncology</i> , 2019, 9, 1165. | 2.8 | 29 |
| 20 | Assessing the efficacy of coherent anti-Stokes Raman scattering microscopy for the detection of infiltrating glioblastoma in fresh brain samples. <i>Journal of Biophotonics</i> , 2017, 10, 404-414. | 2.3 | 28 |
| 21 | Mutant IDH1 Differently Affects Redox State and Metabolism in Glial Cells of Normal and Tumor Origin. <i>Cancers</i> , 2019, 11, 2028. | 3.7 | 23 |
| 22 | A Systematic Review of the Semi-Sitting Position in Neurosurgical Patients with Patent Foramen Ovale: How Frequent Is Paradoxical Embolism?. <i>World Neurosurgery</i> , 2018, 115, 196-200. | 1.3 | 21 |
| 23 | Biochemical Monitoring of Spinal Cord Injury by FT-IR Spectroscopy—Effects of Therapeutic Alginate Implant in Rat Models. <i>PLoS ONE</i> , 2015, 10, e0142660. | 2.5 | 20 |
| 24 | Label-free multiphoton microscopy reveals relevant tissue changes induced by alginate hydrogel implantation in rat spinal cord injury. <i>Scientific Reports</i> , 2018, 8, 10841. | 3.3 | 19 |
| 25 | Percutaneous pedicle screw and rod fixation with TLIF in a series of 14 patients with recurrent lumbar disc herniation. <i>Clinical Neurology and Neurosurgery</i> , 2014, 124, 25-31. | 1.4 | 16 |
| 26 | Endogenous Two-Photon Excited Fluorescence Provides Label-Free Visualization of the Inflammatory Response in the Rodent Spinal Cord. <i>BioMed Research International</i> , 2015, 2015, 1-9. | 1.9 | 15 |
| 27 | Radio-chemotherapy improves survival in IDH-mutant, 1p/19q non-codeleted secondary high-grade astrocytoma patients. <i>Journal of Neuro-Oncology</i> , 2015, 124, 197-205. | 2.9 | 15 |
| 28 | Assessment of cutaneous axon-reflex responses to evaluate functional integrity of autonomic small nerve fibers. <i>Neurological Sciences</i> , 2020, 41, 1685-1696. | 1.9 | 15 |
| 29 | Bevacizumab versus alkylating chemotherapy in recurrent glioblastoma. <i>Journal of Cancer Research and Clinical Oncology</i> , 2020, 146, 659-670. | 2.5 | 14 |
| 30 | New Therapeutic Option for Drop Foot with the ActiGait Peroneal Nerve Stimulator—a Technical Note. <i>World Neurosurgery</i> , 2015, 84, 2037-2042. | 1.3 | 13 |
| 31 | Daily drained CSF volume is a predictor for shunt dependence — A retrospective study. <i>Clinical Neurology and Neurosurgery</i> , 2015, 138, 147-150. | 1.4 | 13 |
| 32 | Targeted RNAi of BIRC5/Survivin Using Antibody-Conjugated Poly(Propylene Imine)-Based Polyplexes Inhibits Growth of PSCA-Positive Tumors. <i>Pharmaceutics</i> , 2021, 13, 676. | 4.5 | 13 |
| 33 | Enhancing tumor apparent diffusion coefficient histogram skewness stratifies the postoperative survival in recurrent glioblastoma multiforme patients undergoing salvage surgery. <i>Journal of Neuro-Oncology</i> , 2016, 127, 551-557. | 2.9 | 12 |
| 34 | Label-free multiphoton microscopy reveals altered tissue architecture in hippocampal sclerosis. <i>Epilepsia</i> , 2017, 58, e1-e5. | 5.1 | 12 |
| 35 | Sporadic multiple meningiomas harbor distinct driver mutations. <i>Acta Neuropathologica Communications</i> , 2021, 9, 8. | 5.2 | 12 |
| 36 | Label-free multiphoton imaging allows brain tumor recognition based on texture analysis—a study of 382 tumor patients. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa035. | 0.7 | 11 |

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|----|--|-----|-----------|
| 37 | Janus face-like effects of Aurora B inhibition: antitumoral mode of action versus induction of aneuploid progeny. <i>Carcinogenesis</i> , 2016, 37, 993-1003. | 2.8 | 10 |
| 38 | Somatosensory functional MRI tractography for individualized targeting of deep brain stimulation in patients with chronic pain after brachial plexus injury. <i>Acta Neurochirurgica</i> , 2019, 161, 2485-2490. | 1.7 | 10 |
| 39 | Identification of distinctive features in human intracranial tumors by label-free nonlinear multimodal microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800465. | 2.3 | 10 |
| 40 | Mapping of language and motor function during awake neurosurgery with intraoperative optical imaging. <i>Neurosurgical Focus</i> , 2020, 48, E3. | 2.3 | 10 |
| 41 | NKG2C+ NK Cells for Immunotherapy of Glioblastoma Multiforme. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5857. | 4.1 | 9 |
| 42 | Gene-activated fat grafts for the repair of spinal cord injury: a pilot study. <i>Acta Neurochirurgica</i> , 2016, 158, 367-378. | 1.7 | 8 |
| 43 | Artificial feeder cells expressing ligands for killer cell immunoglobulin-like receptors and CD94/NKG2A for expansion of functional primary natural killer cells with tolerance to self. <i>Cytotherapy</i> , 2020, 22, 354-368. | 0.7 | 8 |
| 44 | Implementation of <i>TERT</i> promoter mutations improve prognostication of the WHO classification in meningioma. <i>Neuropathology and Applied Neurobiology</i> , 2022, 48, . | 3.2 | 8 |
| 45 | Improved Visualization of Intracranial Vessels with Intraoperative Coregistration of Rotational Digital Subtraction Angiography and Intraoperative 3D Ultrasound. <i>PLoS ONE</i> , 2015, 10, e0121345. | 2.5 | 7 |
| 46 | Optical molecular imaging of corpora amylacea in human brain tissue. <i>Biomedizinische Technik</i> , 2018, 63, 579-585. | 0.8 | 7 |
| 47 | Comparison of Automatic Segmentation Algorithms for the Subthalamic Nucleus. <i>Stereotactic and Functional Neurosurgery</i> , 2020, 98, 256-262. | 1.5 | 7 |
| 48 | First clinical results of minimally invasive vector lumbar interbody fusion (MIS-VLIF) in spondylodiscitis and concomitant osteoporosis: a technical note. <i>European Spine Journal</i> , 2017, 26, 3147-3155. | 2.2 | 6 |
| 49 | Application of the Six Sigma concept for quality assessment of different strategies in DBS surgery. <i>International Journal for Quality in Health Care</i> , 2018, 30, 760-768. | 1.8 | 6 |
| 50 | Decompressive Hemicraniectomy in Elderly Patients With Space-Occupying Infarction (DECAP): A Prospective Observational Study. <i>Neurocritical Care</i> , 2019, 31, 97-106. | 2.4 | 6 |
| 51 | Parcellation of the Subthalamic Nucleus in Parkinson's Disease: A Retrospective Analysis of Atlas- and Diffusion-Based Methods. <i>Stereotactic and Functional Neurosurgery</i> , 2020, 98, 416-423. | 1.5 | 6 |
| 52 | Intraoperative optical imaging of metabolic changes after direct cortical stimulation – a clinical tool for guidance during tumor resection?. <i>Biomedizinische Technik</i> , 2018, 63, 587-594. | 0.8 | 5 |
| 53 | Sigma-1 Receptor Positron Emission Tomography: A New Molecular Imaging Approach Using (S)-(α)-[18F]Fluspidine in Glioblastoma. <i>Molecules</i> , 2020, 25, 2170. | 3.8 | 5 |
| 54 | Characterization of cortical hemodynamic changes following sensory, visual, and speech activation by intraoperative optical imaging utilizing phase-based evaluation methods. <i>Human Brain Mapping</i> , 2022, 43, 598-615. | 3.6 | 5 |

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|----|---|-----|-----------|
| 55 | Olfactory bulb volume changes associated with trans-sphenoidal pituitary surgery. PLoS ONE, 2019, 14, e0224594. | 2.5 | 4 |
| 56 | GliPR1 knockdown by RNA interference exerts anti-glioma effects in vitro and in vivo. Journal of Neuro-Oncology, 2021, 153, 23-32. | 2.9 | 4 |
| 57 | Do statins reduce the rate of revision surgery after chronic subdural hematoma drain?. Acta Neurochirurgica, 2021, 163, 1843-1848. | 1.7 | 4 |
| 58 | Differential growth inhibition of cerebral metastases by anti-angiogenic compounds. Anticancer Research, 2014, 34, 3293-302. | 1.1 | 4 |
| 59 | Correlation of biomechanics and cancer cell phenotype by combined Brillouin and Raman spectroscopy of U87-MG glioblastoma cells. Journal of the Royal Society Interface, 2022, 19, . | 3.4 | 4 |
| 60 | Label-free Imaging of Tissue Architecture during Axolotl Peripheral Nerve Regeneration in Comparison to Functional Recovery. Scientific Reports, 2019, 9, 12641. | 3.3 | 3 |
| 61 | Brillouin Spectroscopy as an Innovative Tool to Investigate Biomechanical Properties of Native Human Aortic Valve and Bioprostheses Tissue. Structural Heart, 2021, 5, 29. | 0.6 | 3 |
| 62 | Resection of brain metastases. Acta Chirurgica Austriaca, 1996, 28, 18-23. | 0.2 | 2 |
| 63 | Clinical Validation of Quality Improvements Using the Six Sigma Concept: A Case Study for Deep Brain Stimulation in Parkinson's Disease. Stereotactic and Functional Neurosurgery, 2019, 97, 195-201. | 1.5 | 2 |
| 64 | Prospects of immune checkpoint blockade and vaccine-based immunotherapy for glioblastoma. Innovative Surgical Sciences, 2021, 6, 35-48. | 0.7 | 2 |
| 65 | Brillouin confocal microscopy to determine biomechanical properties of SULEEI-treated bovine pericardium for application in cardiac surgery. Clinical Hemorheology and Microcirculation, 2021, 79, 179-192. | 1.7 | 2 |
| 66 | Application of thermography for cerebral perfusion imaging during aneurysm surgery. Current Directions in Biomedical Engineering, 2018, 4, 29-32. | 0.4 | 1 |
| 67 | Clinical and scientific advances in neurosurgery. Innovative Surgical Sciences, 2021, 6, 1-2. | 0.7 | 1 |
| 68 | Targeted Transposition of Minicircle DNA Using Single-Chain Antibody Conjugated Cyclodextrin-Modified Poly (Propylene Imine) Nanocarriers. Cancers, 2022, 14, 1925. | 3.7 | 1 |