

Gustav Burström

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

897
citations

567281

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h-index

477307

29
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35
all docs

35
docs citations

35
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Pedicle Screw Placement Using Augmented Reality Surgical Navigation With Intraoperative 3D Imaging. <i>Spine</i> , 2019, 44, 517-525.	2.0	150
2	Augmented and Virtual Reality Instrument Tracking for Minimally Invasive Spine Surgery. <i>Spine</i> , 2019, 44, 1097-1104.	2.0	79
3	Augmented reality navigation with intraoperative 3D imaging vs fluoroscopy-assisted free-hand surgery for spine fixation surgery: a matched-control study comparing accuracy. <i>Scientific Reports</i> , 2020, 10, 707.	3.3	76
4	A Novel Augmented-Reality-Based Surgical Navigation System for Spine Surgery in a Hybrid Operating Room: Design, Workflow, and Clinical Applications. <i>Operative Neurosurgery</i> , 2020, 18, 496-502.	0.8	68
5	Augmented reality navigation in spine surgery: a systematic review. <i>Acta Neurochirurgica</i> , 2021, 163, 843-852.	1.7	58
6	Augmented Reality Surgical Navigation in Spine Surgery to Minimize Staff Radiation Exposure. <i>Spine</i> , 2020, 45, E45-E53.	2.0	57
7	Machine learning for automated 3-dimensional segmentation of the spine and suggested placement of pedicle screws based on intraoperative cone-beam computer tomography. <i>Journal of Neurosurgery: Spine</i> , 2019, 31, 147-154.	1.7	48
8	An organic electronic biomimetic neuron enables auto-regulated neuromodulation. <i>Biosensors and Bioelectronics</i> , 2015, 71, 359-364.	10.1	44
9	Does Augmented Reality Navigation Increase Pedicle Screw Density Compared to Free-Hand Technique in Deformity Surgery? Single Surgeon Case Series of 44 Patients. <i>Spine</i> , 2020, 45, E1085-E1090.	2.0	27
10	Feasibility and accuracy of a robotic guidance system for navigated spine surgery in a hybrid operating room: a cadaver study. <i>Scientific Reports</i> , 2020, 10, 7522.	3.3	27
11	Frameless Patient Tracking With Adhesive Optical Skin Markers for Augmented Reality Surgical Navigation in Spine Surgery. <i>Spine</i> , 2020, 45, 1598-1604.	2.0	25
12	Augmented reality navigation for cranial biopsy and external ventricular drain insertion. <i>Neurosurgical Focus</i> , 2021, 51, E7.	2.3	22
13	Subacute bacterial endocarditis and subsequent shunt nephritis from ventriculoatrial shunting 14 years after shunt implantation. <i>BMJ Case Reports</i> , 2014, 2014, bcr2014204655-bcr2014204655.	0.5	21
14	Fusion of augmented reality imaging with the endoscopic view for endonasal skull base surgery; a novel application for surgical navigation based on intraoperative cone beam computed tomography and optical tracking. <i>PLoS ONE</i> , 2020, 15, e0227312.	2.5	20
15	Long-Term Follow-Up and Predictors of Functional Outcome after Surgery for Spinal Meningiomas: A Population-Based Cohort Study. <i>Cancers</i> , 2021, 13, 3244.	3.7	19
16	Management of perineural (Tarlov) cysts: a population-based cohort study and algorithm for the selection of surgical candidates. <i>Acta Neurochirurgica</i> , 2019, 161, 1909-1915.	1.7	18
17	Intraoperative cone beam computed tomography is as reliable as conventional computed tomography for identification of pedicle screw breach in thoracolumbar spine surgery. <i>European Radiology</i> , 2021, 31, 2349-2356.	4.5	16
18	Incidence and predictors of kyphotic deformity following resection of cervical intradural tumors in adults: a population-based cohort study. <i>Acta Neurochirurgica</i> , 2020, 162, 2905-2913.	1.7	15

#	ARTICLE	IF	CITATIONS
19	Feasibility and Accuracy of Thoracolumbar Pedicle Screw Placement Using an Augmented Reality Head Mounted Device. <i>Sensors</i> , 2022, 22, 522.	3.8	15
20	Towards Optical Imaging for Spine Tracking without Markers in Navigated Spine Surgery. <i>Sensors</i> , 2020, 20, 3641.	3.8	14
21	Diffuse reflectance spectroscopy accurately identifies the pre-cortical zone to avoid impending pedicle screw breach in spinal fixation surgery. <i>Biomedical Optics Express</i> , 2019, 10, 5905.	2.9	14
22	Surgical Treatment of Intra- and Juxtamedullary Spinal Cord Tumors: A Population Based Observational Cohort Study. <i>Frontiers in Neurology</i> , 2019, 10, 814.	2.4	12
23	Diffuse reflectance spectroscopy, a potential optical sensing technology for the detection of cortical breaches during spinal screw placement. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	12
24	Design and control of an image-guided robot for spine surgery in a hybrid OR. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020, 16, e2108.	2.3	10
25	Identifying clot composition using intravascular diffuse reflectance spectroscopy in a porcine model of endovascular thrombectomy. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 304-309.	3.3	8
26	Validation of diffuse reflectance spectroscopy with magnetic resonance imaging for accurate vertebral bone fat fraction quantification. <i>Biomedical Optics Express</i> , 2019, 10, 4316.	2.9	6
27	Diffuse reflectance spectroscopy for breach detection during pedicle screw placement: a first in vivo investigation in a porcine model. <i>BioMedical Engineering OnLine</i> , 2020, 19, 47.	2.7	4
28	Anterior Cervical Corpectomy and Fusion for Degenerative and Traumatic Spine Disorders, Single-Center Experience of a Case Series of 119 Patients. <i>Operative Neurosurgery</i> , 2020, 20, 8-17.	0.8	3
29	Clot composition characterization using diffuse reflectance spectroscopy in acute ischemic stroke. <i>Biomedical Optics Express</i> , 2022, 13, 3311.	2.9	3
30	Evaluation of a Novel Teleradiology Technology for Image-Based Distant Consultations: Applications in Neurosurgery. <i>Diagnostics</i> , 2021, 11, 1413.	2.6	2
31	Fluoroscopy-Assisted C1-C2 Posterior Fixation for Atlantoaxial Instability: A Single-Center Case Series of 78 Patients. <i>Medicina (Lithuania)</i> , 2022, 58, 114.	2.0	2
32	Multi-view 3D skin feature recognition and localization for patient tracking in spinal surgery applications. <i>BioMedical Engineering OnLine</i> , 2021, 20, 6.	2.7	1
33	Foundations of Bayesian Learning in Clinical Neuroscience. <i>Acta Neurochirurgica Supplementum</i> , 2022, 134, 75-78.	1.0	1