

Adrian Elmi-Terander

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4204051/publications.pdf>

Version: 2024-02-01

69
papers

1,520
citations

430874

18
h-index

330143

37
g-index

78
all docs

78
docs citations

78
times ranked

1306
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	Surgical Navigation Technology Based on Augmented Reality and Integrated 3D Intraoperative Imaging. <i>Spine</i> , 2016, 41, E1303-E1311.	2.0	123
3	Feasibility and Accuracy of Thoracolumbar Minimally Invasive Pedicle Screw Placement With Augmented Reality Navigation Technology. <i>Spine</i> , 2018, 43, 1018-1023.	2.0	101
4	Neuro-Intensive Treatment Targeting Intracranial Hypertension Improves Outcome in Severe Bacterial Meningitis: An Intervention-Control Study. <i>PLoS ONE</i> , 2014, 9, e91976.	2.5	86
5	Augmented and Virtual Reality Instrument Tracking for Minimally Invasive Spine Surgery. <i>Spine</i> , 2019, 44, 1097-1104.	2.0	79
6	Predictors of intracranial hemorrhage in adult patients on extracorporeal membrane oxygenation: an observational cohort study. <i>Journal of Intensive Care</i> , 2017, 5, 27.	2.9	77
7	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
8	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
9	Incidence, Outcome, and Predictors of Intracranial Hemorrhage in Adult Patients on Extracorporeal Membrane Oxygenation: A Systematic and Narrative Review. <i>Frontiers in Neurology</i> , 2018, 9, 548.	2.4	64
10	Augmented reality navigation in spine surgery: a systematic review. <i>Acta Neurochirurgica</i> , 2021, 163, 843-852.	1.7	58
11	Augmented Reality Surgical Navigation in Spine Surgery to Minimize Staff Radiation Exposure. <i>Spine</i> , 2020, 45, E45-E53.	2.0	57
12	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
13	Management of intracranial hemorrhage in adult patients on extracorporeal membrane oxygenation (ECMO): An observational cohort study. <i>PLoS ONE</i> , 2017, 12, e0190365.	2.5	38
14	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
15	Hyperspectral Imaging for Glioblastoma Surgery: Improving Tumor Identification Using a Deep Spectral-Spatial Approach. <i>Sensors</i> , 2020, 20, 6955.	3.8	27
16	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
17	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
18	Augmented reality navigation for cranial biopsy and external ventricular drain insertion. <i>Neurosurgical Focus</i> , 2021, 51, E7.	2.3	22

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Feasibility and Accuracy of Thoracolumbar Pedicle Screw Placement Using an Augmented Reality Head Mounted Device. <i>Sensors</i> , 2022, 22, 522.	3.8	15
25	Towards Optical Imaging for Spine Tracking without Markers in Navigated Spine Surgery. <i>Sensors</i> , 2020, 20, 3641.	3.8	14
26	Hyperspectral Imaging for Skin Feature Detection: Advances in Markerless Tracking for Spine Surgery. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4078.	2.5	14
27	Introduction. Virtual and augmented reality in neurosurgery: a timeline. <i>Neurosurgical Focus</i> , 2021, 51, E1.	2.3	14
28	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
29	Relationships between the Na ⁺ /K ⁺ pump and ATP and ADP content in mouse pancreatic islets: effects of meglitinide and glibenclamide. <i>British Journal of Pharmacology</i> , 2000, 131, 1700-1706.	5.4	12
30	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
31	The risk of developing a meningioma during and after pregnancy. <i>Scientific Reports</i> , 2021, 11, 9153.	3.3	12
32	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
33	Health-Related Quality of Life and Return to Work after Surgery for Spinal Meningioma: A Population-Based Cohort Study. <i>Cancers</i> , 2021, 13, 6371.	3.7	12
34	Surgical treatment for symptomatic ventriculus terminalis: case series and a literature review. <i>Acta Neurochirurgica</i> , 2019, 161, 1901-1908.	1.7	11
35	Design and control of an image-guided robot for spine surgery in a hybrid <sc>OR</sc>. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020, 16, e2108.	2.3	10
36	Serial S100B Sampling Detects Intracranial Lesion Development in Patients on Extracorporeal Membrane Oxygenation. <i>Frontiers in Neurology</i> , 2019, 10, 512.	2.4	9

#	ARTICLE	IF	CITATIONS
37	Modulation of β^2 -Cell Ouabain-Sensitive Na^+/K^+ Pump by D-Glucose, Glibenclamide or Diazoxide. <i>International Journal of Experimental Diabetes Research</i> , 2000, 1, 265-274.	1.1	8
38	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
39	D-glucose Stimulates the Na^+/K^+ Pump in Mouse Pancreatic Islet Cells. <i>International Journal of Experimental Diabetes Research</i> , 2000, 1, 155-164.	1.1	7
40	Current knowledge on spinal meningiomas: a systematic review protocol. <i>BMJ Open</i> , 2022, 12, e061614.	1.9	7
41	Modulation of islet ATP content by inhibition or stimulation of the Na^+/K^+ pump. <i>European Journal of Pharmacology</i> , 2001, 426, 139-143.	3.5	6
42	Effects of leptin, acetylcholine and vasoactive intestinal polypeptide on insulin secretion in isolated ob/ob mouse pancreatic islets. <i>Acta Diabetologica</i> , 2004, 41, 104-112.	2.5	6
43	Long-term pain relief following percutaneous steroid treatment of spinal synovial cysts: a population-based cohort study. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 874-878.	3.3	6
44	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
45	Filum terminale transection in pediatric tethered cord syndrome: a single center, population-based, cohort study of 95 cases. <i>Acta Neurochirurgica</i> , 2022, 164, 1473-1480.	1.7	6
46	Increased Number of Na^+/K^+ ATPase Enzyme Units in Ob/Ob-Mouse Pancreatic Islets. <i>Pancreas</i> , 2001, 23, 113-115.	1.1	5
47	Radiation distribution in a hybrid operating room, utilizing different X-ray imaging systems: investigations to minimize occupational exposure. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 1139-1144.	3.3	5
48	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
49	Image fusion on the endoscopic view for endo-nasal skull-base surgery. , 2019, , .		4
50	Beyond the pedicle screw—a patent review. <i>European Spine Journal</i> , 2022, 31, 1553-1565.	2.2	4
51	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
52	Development of a CT-compatible anthropomorphic skull phantom for surgical planning, training, and simulation. , 2021, , .		3
53	Improved cephalic index following early cranial vault remodeling in patients with isolated nonsyndromic sagittal synostosis. <i>Neurosurgical Focus</i> , 2021, 50, E7.	2.3	3
54	Clot composition characterization using diffuse reflectance spectroscopy in acute ischemic stroke. <i>Biomedical Optics Express</i> , 2022, 13, 3311.	2.9	3

#	ARTICLE	IF	CITATIONS
55	Proton density fat fraction of the spinal column: an MRI cadaver study. BioMedical Engineering OnLine, 2021, 20, 7.	2.7	2
56	Evaluation of a Novel Teleradiology Technology for Image-Based Distant Consultations: Applications in Neurosurgery. Diagnostics, 2021, 11, 1413.	2.6	2
57	Automated classification of brain tissue: comparison between hyperspectral imaging and diffuse reflectance spectroscopy. , 2020, , .		2
58	Fluoroscopy-Assisted C1â€“C2 Posterior Fixation for Atlantoaxial Instability: A Single-Center Case Series of 78 Patients. Medicina (Lithuania), 2022, 58, 114.	2.0	2
59	Corrigenda to Volume XLI, Number 3, September 2004: ORIGINAL. Acta Diabetologica, 2004, 41, 200-200.	2.5	1
60	Towards non-invasive patient tracking: optical image analysis for spine tracking during spinal surgery procedures. , 2019, 2019, 3909-3914.		1
61	Multi-view 3D skin feature recognition and localization for patient tracking in spinal surgery applications. BioMedical Engineering OnLine, 2021, 20, 6.	2.7	1
62	Foundations of Bayesian Learning in Clinical Neuroscience. Acta Neurochirurgica Supplementum, 2022, 134, 75-78.	1.0	1
63	Long-term outcome following surgical treatment of posttraumatic tethered cord syndrome: a retrospective population-based cohort study. Spinal Cord, 2022, 60, 516-521.	1.9	1
64	Authors reply: Letter to editor regarding â€œManagement of perineural (Tarlov) cysts: a population-based cohort study and algorithm for the selection of surgical candidatesâ€•. Acta Neurochirurgica, 2020, 162, 127-128.	1.7	0
65	199. Functional outcome and long-term follow up results after surgery for spinal meningiomas: a population-based cohort study. Spine Journal, 2020, 20, S98-S99.	1.3	0
66	253. Long term outcome following percutaneous image-guided treatment of spinal synovial cysts: a population-based cohort study. Spine Journal, 2020, 20, S125.	1.3	0
67	Hyperspectral imaging for tissue classification in glioblastoma tumor patients: a deep spectral-spatial approach. , 2021, , .		0
68	Intraoperative surgical instrument guidance for spinal screw placement procedures using diffuse reflectance spectroscopy (Conference Presentation). , 2020, , .		0
69	Anterior Cervical Corpectomy and Fusion for Degenerative and Traumatic Spine Disorders, Single-Center Experience of a Case Series of 119 Patients. Neurosurgery, 2021, 89, S158-S158.	1.1	0