Adrian Elmi-Terander

List of Publications by Year
in descending order

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	Identifying clot composition using intravascular diffuse reflectance spectroscopy in a porcine model of endovascular thrombectomy. Journal of NeuroInterventional Surgery, 2022, 14, 304-309.	3.3	8
2	Radiation distribution in a hybrid operating room, utilizing different X-ray imaging systems: investigations to minimize occupational exposure. Journal of NeuroInterventional Surgery, 2022, 14, 1139-1144.	3.3	5
3	Foundations of Bayesian Learning in Clinical Neuroscience. Acta Neurochirurgica Supplementum, 2022, 134, 75-78.	1.0	1
4	Fluoroscopy-Assisted C1–C2 Posterior Fixation for Atlantoaxial Instability: A Single-Center Case Series of 78 Patients. Medicina (Lithuania), 2022, 58, 114.	2.0	2
5	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
6	Feasibility and Accuracy of Thoracolumbar Pedicle Screw Placement Using an Augmented Reality Head Mounted Device. Sensors, 2022, 22, 522.	3.8	15
7	Beyond the pedicle screw–a patent review. European Spine Journal, 2022, 31, 1553-1565.	2.2	4
8	Filum terminale transection in pediatric tethered cord syndrome: a single center, population-based, cohort study of 95 cases. Acta Neurochirurgica, 2022, 164, 1473-1480.	1.7	6
9	Clot composition characterization using diffuse reflectance spectroscopy in acute ischemic stroke. Biomedical Optics Express, 2022, 13, 3311.	2.9	3
10	Current knowledge on spinal meningiomas: a systematic review protocol. BMJ Open, 2022, 12, e061614.	1.9	7
11	Intraoperative cone beam computed tomography is as reliable as conventional computed tomography for identification of pedicle screw breach in thoracolumbar spine surgery. European Radiology, 2021, 31, 2349-2356.	4.5	16
12	Proton density fat fraction of the spinal column: an MRI cadaver study. BioMedical Engineering OnLine, 2021, 20, 7.	2.7	2
13	Augmented reality navigation in spine surgery: a systematic review. Acta Neurochirurgica, 2021, 163, 843-852.	1.7	58
14	Multi-view 3D skin feature recognition and localization for patient tracking in spinal surgery applications. BioMedical Engineering OnLine, 2021, 20, 6.	2.7	1
15	Development of a CT-compatible anthropomorphic skull phantom for surgical planning, training, and simulation. , 2021, , .		3
16	Hyperspectral imaging for tissue classification in glioblastoma tumor patients: a deep spectral-spatial approach. , 2021, , .		0
17	The risk of developing a meningioma during and after pregnancy. Scientific Reports, 2021, 11, 9153.	3.3	12
18	Improved cephalic index following early cranial vault remodeling in patients with isolated nonsyndromic sagittal synostosis. Neurosurgical Focus, 2021, 50, E7.	2.3	3

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19	Long-Term Follow-Up and Predictors of Functional Outcome after Surgery for Spinal Meningiomas: A Population-Based Cohort Study. Cancers, 2021, 13, 3244.	3.7	19
20	Introduction. Virtual and augmented reality in neurosurgery: a timeline. Neurosurgical Focus, 2021, 51, E1.	2.3	14
21	Augmented reality navigation for cranial biopsy and external ventricular drain insertion. Neurosurgical Focus, 2021, 51, E7.	2.3	22
22	Evaluation of a Novel Teleradiology Technology for Image-Based Distant Consultations: Applications in Neurosurgery. Diagnostics, 2021, 11, 1413.	2.6	2
23	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
24	Health-Related Quality of Life and Return to Work after Surgery for Spinal Meningioma: A Population-Based Cohort Study. Cancers, 2021, 13, 6371.	3.7	12
25	A Novel Augmented-Reality-Based Surgical Navigation System for Spine Surgery in a Hybrid Operating Room: Design, Workflow, and Clinical Applications. Operative Neurosurgery, 2020, 18, 496-502.	0.8	68
26	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
27	Augmented Reality Surgical Navigation in Spine Surgery to Minimize Staff Radiation Exposure. Spine, 2020, 45, E45-E53.	2.0	57
28	Towards Optical Imaging for Spine Tracking without Markers in Navigated Spine Surgery. Sensors, 2020, 20, 3641.	3.8	14
29	Anterior Cervical Corpectomy and Fusion for Degenerative and Traumatic Spine Disorders, Single-Center Experience of a Case Series of 119 Patients. Operative Neurosurgery, 2020, 20, 8-17.	0.8	3
30	Frameless Patient Tracking With Adhesive Optical Skin Markers for Augmented Reality Surgical Navigation in Spine Surgery. Spine, 2020, 45, 1598-1604.	2.0	25
31	Does Augmented Reality Navigation Increase Pedicle Screw Density Compared to Free-Hand Technique in Deformity Surgery? Single Surgeon Case Series of 44 Patients. Spine, 2020, 45, E1085-E1090.	2.0	27
32	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
33	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
34	Hyperspectral Imaging for Glioblastoma Surgery: Improving Tumor Identification Using a Deep Spectral-Spatial Approach. Sensors, 2020, 20, 6955.	3.8	27
35	Long-term pain relief following percutaneous steroid treatment of spinal synovial cysts: a population-based cohort study. Journal of NeuroInterventional Surgery, 2020, 12, 874-878.	3.3	6
36	Feasibility and accuracy of a robotic guidance system for navigated spine surgery in a hybrid operating room: a cadaver study. Scientific Reports, 2020, 10, 7522.	3.3	27

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37	Incidence and predictors of kyphotic deformity following resection of cervical intradural tumors in adults: a population-based cohort study. Acta Neurochirurgica, 2020, 162, 2905-2913.	1.7	15
38	Diffuse reflectance spectroscopy for breach detection during pedicle screw placement: a first in vivo investigation in a porcine model. BioMedical Engineering OnLine, 2020, 19, 47.	2.7	4
39	Hyperspectral Imaging for Skin Feature Detection: Advances in Markerless Tracking for Spine Surgery. Applied Sciences (Switzerland), 2020, 10, 4078.	2.5	14
40	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. PLoS ONE, 2020, 15, e0227312.	2.5	20
41	Augmented reality navigation with intraoperative 3D imaging vs fluoroscopy-assisted free-hand surgery for spine fixation surgery: a matched-control study comparing accuracy. Scientific Reports, 2020, 10, 707.	3.3	76
42	Design and control of an image‐guided robot for spine surgery in a hybrid <scp>OR</scp>. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2108.	2.3	10
43	Automated classification of brain tissue: comparison between hyperspectral imaging and diffuse reflectance spectroscopy. , 2020, , .		2
44	Intraoperative surgical instrument guidance for spinal screw placement procedures using diffuse reflectance spectroscopy (Conference Presentation). , 2020, , .		0
45	Surgical Treatment of Intra- and Juxtamedullary Spinal Cord Tumors: A Population Based Observational Cohort Study. Frontiers in Neurology, 2019, 10, 814.	2.4	12
46	Surgical treatment for symptomatic ventriculus terminalis: case series and a literature review. Acta Neurochirurgica, 2019, 161, 1901-1908.	1.7	11
47	Management of perineural (Tarlov) cysts: a population-based cohort study and algorithm for the selection of surgical candidates. Acta Neurochirurgica, 2019, 161, 1909-1915.	1.7	18
48	Serial S100B Sampling Detects Intracranial Lesion Development in Patients on Extracorporeal Membrane Oxygenation. Frontiers in Neurology, 2019, 10, 512.	2.4	9
49	Pedicle Screw Placement Using Augmented Reality Surgical Navigation With Intraoperative 3D Imaging. Spine, 2019, 44, 517-525.	2.0	150
50	Augmented and Virtual Reality Instrument Tracking for Minimally Invasive Spine Surgery. Spine, 2019, 44, 1097-1104.	2.0	79
51	Towards non-invasive patient tracking: optical image analysis for spine tracking during spinal surgery procedures. , 2019, 2019, 3909-3914.		1
52	Diffuse reflectance spectroscopy, a potential optical sensing technology for the detection of cortical breaches during spinal screw placement. Journal of Biomedical Optics, 2019, 24, 1.	2.6	12
53	Validation of diffuse reflectance spectroscopy with magnetic resonance imaging for accurate vertebral bone fat fraction quantification. Biomedical Optics Express, 2019, 10, 4316.	2.9	6
54	Diffuse reflectance spectroscopy accurately identifies the pre-cortical zone to avoid impending pedicle screw breach in spinal fixation surgery. Biomedical Optics Express, 2019, 10, 5905.	2.9	14

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55	Machine learning for automated 3-dimensional segmentation of the spine and suggested placement of pedicle screws based on intraoperative cone-beam computer tomography. Journal of Neurosurgery: Spine, 2019, 31, 147-154.	1.7	48
56	Image fusion on the endoscopic view for endo-nasal skull-base surgery. , 2019, , .		4
57	Feasibility and Accuracy of Thoracolumbar Minimally Invasive Pedicle Screw Placement With Augmented Reality Navigation Technology. Spine, 2018, 43, 1018-1023.	2.0	101
58	Incidence, Outcome, and Predictors of Intracranial Hemorrhage in Adult Patients on Extracorporeal Membrane Oxygenation: A Systematic and Narrative Review. Frontiers in Neurology, 2018, 9, 548.	2.4	64
59	Predictors of intracranial hemorrhage in adult patients on extracorporeal membrane oxygenation: an observational cohort study. Journal of Intensive Care, 2017, 5, 27.	2.9	77
60	Management of intracranial hemorrhage in adult patients on extracorporeal membrane oxygenation (ECMO): An observational cohort study. PLoS ONE, 2017, 12, e0190365.	2.5	38
61	Surgical Navigation Technology Based on Augmented Reality and Integrated 3D Intraoperative Imaging. Spine, 2016, 41, E1303-E1311.	2.0	123
62	Neuro-Intensive Treatment Targeting Intracranial Hypertension Improves Outcome in Severe Bacterial Meningitis: An Intervention-Control Study. PLoS ONE, 2014, 9, e91976.	2.5	86
63	Effects of leptin, acetylcholine and vasoactive intestinal polypeptide on insulin secretion in isolated ob/ob mouse pancreatic islets. Acta Diabetologica, 2004, 41, 104-112.	2.5	6
64	Corrigenda to Volume XLI, Number 3, September 2004: ORIGINAL. Acta Diabetologica, 2004, 41, 200-200.	2.5	1
65	Modulation of islet ATP content by inhibition or stimulation of the Na+/K+ pump. European Journal of Pharmacology, 2001, 426, 139-143.	3.5	6
66	Increased Number of Na+/K+ ATPase Enzyme Units in Ob/Ob-Mouse Pancreatic Islets. Pancreas, 2001, 23, 113-115.	1.1	5
67	Relationships between the Na+ /K+ pump and ATP and ADP content in mouse pancreatic islets: effects of meglitinide and glibenclamide. British Journal of Pharmacology, 2000, 131, 1700-1706.	5.4	12
68	Modulation ofÎ²-Cell Ouabain-SensitiveR86b+Influx (Na+/k+Pump) by D-Glucose, Glibenclamide or Diazoxide. International Journal of Experimental Diabetes Research, 2000, 1, 265-274.	1.1	8
69	D-glucose Stimulates theNa+/k+Pump in Mouse Pancreatic Islet Cells. International Journal of Experimental Diabetes Research, 2000, 1, 155-164.	1.1	7