

Rami Nachabe

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,632
citations

279798

23
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	Pedicle Screw Placement Using Augmented Reality Surgical Navigation With Intraoperative 3D Imaging. Spine, 2019, 44, 517-525.	2.0	150
2	Surgical Navigation Technology Based on Augmented Reality and Integrated 3D Intraoperative Imaging. Spine, 2016, 41, E1303-E1311.	2.0	123
3	Diagnosis of breast cancer using diffuse optical spectroscopy from 500 to 1600 nm: comparison of classification methods. Journal of Biomedical Optics, 2011, 16, 087010.	2.6	119
4	Estimation of lipid and water concentrations in scattering media with diffuse optical spectroscopy from 900 to 1600 nm. Journal of Biomedical Optics, 2010, 15, 037015.	2.6	112
5	Estimation of biological chromophores using diffuse optical spectroscopy: benefit of extending the UV-VIS wavelength range to include 1000 to 1600 nm. Biomedical Optics Express, 2010, 1, 1432.	2.9	106
6	Feasibility and Accuracy of Thoracolumbar Minimally Invasive Pedicle Screw Placement With Augmented Reality Navigation Technology. Spine, 2018, 43, 1018-1023.	2.0	101
7	Chromophore based analyses of steady-state diffuse reflectance spectroscopy: current status and perspectives for clinical adoption. Journal of Biophotonics, 2015, 8, 9-24.	2.3	79
8	Augmented and Virtual Reality Instrument Tracking for Minimally Invasive Spine Surgery. Spine, 2019, 44, 1097-1104.	2.0	79
9	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
10	Effect of bile absorption coefficients on the estimation of liver tissue optical properties and related implications in discriminating healthy and tumorous samples. Biomedical Optics Express, 2011, 2, 600.	2.9	73
11	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
12	Improved identification of peripheral lung tumors by using diffuse reflectance and fluorescence spectroscopy. Lung Cancer, 2013, 80, 165-171.	2.0	63
13	Augmented Reality Surgical Navigation in Spine Surgery to Minimize Staff Radiation Exposure. Spine, 2020, 45, E45-E53.	2.0	57
14	Diffuse reflectance spectroscopy: towards clinical application in breast cancer. Breast Cancer Research and Treatment, 2013, 137, 155-165.	2.5	55
15	Diffuse Reflectance Spectroscopy: A New Guidance Tool for Improvement of Biopsy Procedures in Lung Malignancies. Clinical Lung Cancer, 2012, 13, 424-431.	2.6	48
16	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
17	Epidural needle with embedded optical fibers for spectroscopic differentiation of tissue: ex vivo feasibility study. Biomedical Optics Express, 2011, 2, 1452.	2.9	37
18	Effect of Real-Time Radiation Dose Feedback on Pediatric Interventional Radiology Staff Radiation Exposure. Journal of Vascular and Interventional Radiology, 2014, 25, 119-126.	0.5	32

#	ARTICLE	IF	CITATIONS
19	Radiation dose and image quality comparison during spine surgery with two different, intraoperative 3D imaging navigation systems. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 136-145.	1.9	31
20	Identification of the Epidural Space with Optical Spectroscopy. <i>Anesthesiology</i> , 2010, 113, 1406-1418.	2.5	30
21	Augmented Reality on a C-Arm System: A Preclinical Assessment for Percutaneous Needle Localization. <i>Radiology</i> , 2016, 281, 249-255.	7.3	30
22	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
23	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
24	Validation of Interventional Fiber Optic Spectroscopy With MR Spectroscopy, MAS-NMR Spectroscopy, High-Performance Thin-Layer Chromatography, and Histopathology for Accurate Hepatic Fat Quantification. <i>Investigative Radiology</i> , 2012, 47, 209-216.	6.2	17
25	Real-Time In Vivo Characterization of Primary Liver Tumors With Diffuse Optical Spectroscopy During Percutaneous Needle Interventions. <i>Investigative Radiology</i> , 2015, 50, 443-448.	6.2	16
26	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
27	Minimally Invasive Transforaminal Lumbar Interbody Fusion Using Augmented Reality Surgical Navigation for Percutaneous Pedicle Screw Placement. <i>Clinical Spine Surgery</i> , 2021, 34, E415-E424.	1.3	13
28	Accuracy Assessment of Percutaneous Pedicle Screw Placement Using Cone Beam Computed Tomography with Metal Artifact Reduction. <i>Sensors</i> , 2022, 22, 4615.	3.8	1