

Eric J Seibel

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,271
citations

516215

16
h-index

395343

33
g-index

67
all docs

67
docs citations

67
times ranked

1311
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanning fiber endoscopy with highly flexible, 1 mm catheterscopes for wide-field, full-color imaging. <i>Journal of Biophotonics</i> , 2010, 3, 385-407.	1.1	257
2	Unique features of optical scanning, single fiber endoscopy. <i>Lasers in Surgery and Medicine</i> , 2002, 30, 177-183.	1.1	120
3	Tethered Capsule Endoscopy, A Low-Cost and High-Performance Alternative Technology for the Screening of Esophageal Cancer and Barrett's Esophagus. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1032-1042.	2.5	75
4	Targeted detection of murine colonic dysplasia in vivo with flexible multispectral scanning fiber endoscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 021103.	1.4	71
5	Surface Mosaics of the Bladder Reconstructed From Endoscopic Video for Automated Surveillance. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1670-1680.	2.5	68
6	Semi-autonomous simulated brain tumor ablation with RAVENII Surgical Robot using behavior tree. , 2015, 2015, 3868-3875.		67
7	Scanning Fiber Endoscope Improves Detection of 5-Aminolevulinic Acid-Induced Protoporphyrin IX Fluorescence at the Boundary of Infiltrative Glioma. <i>World Neurosurgery</i> , 2018, 113, e51-e69.	0.7	50
8	Microscopy with ultraviolet surface excitation for wide-area pathology of breast surgical margins. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	40
9	Multimodal laser-based angioscopy for structural, chemical and biological imaging of atherosclerosis. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	38
10	Optical Characterization of Neurosurgical Operating Microscopes: Quantitative Fluorescence and Assessment of PpIX Photobleaching. <i>Scientific Reports</i> , 2018, 8, 12543.	1.6	37
11	Target-to-background enhancement in multispectral endoscopy with background autofluorescence mitigation for quantitative molecular imaging. <i>Journal of Biomedical Optics</i> , 2014, 19, 076014.	1.4	30
12	Multiplexed endoscopic imaging of Barrett's neoplasia using targeted fluorescent heptapeptides in a phase 1 proof-of-concept study. <i>Gut</i> , 2021, 70, 1010-1013.	6.1	24
13	Three-dimensional measurement of small inner surface profiles using feature-based 3-D panoramic registration. <i>Optical Engineering</i> , 2017, 56, 014108.	0.5	23
14	Trimodal detection of early childhood caries using laser light scanning and fluorescence spectroscopy: clinical prototype. <i>Journal of Biomedical Optics</i> , 2013, 18, 111412.	1.4	19
15	Semi-autonomous image-guided brain tumour resection using an integrated robotic system: A benchtop study. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018, 14, e1872.	1.2	19
16	44.1: Volumetric Display using Scanned Fiber Array. <i>Digest of Technical Papers SID International Symposium</i> , 2010, 41, 653-656.	0.1	18
17	Rapid scanning catheterscope for expanded forward-view volumetric imaging with optical coherence tomography. <i>Optics Letters</i> , 2015, 40, 3165.	1.7	18
18	Spectrally enhanced imaging of occlusal surfaces and artificial shallow enamel erosions with a scanning fiber endoscope. <i>Journal of Biomedical Optics</i> , 2012, 17, 0760191.	1.4	16

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19	RetinaMatch: Efficient Template Matching of Retina Images for Teleophthalmology. IEEE Transactions on Medical Imaging, 2019, 38, 1993-2004.	5.4	15
20	Accurate three-dimensional virtual reconstruction of surgical field using calibrated trajectories of an image-guided medical robot. Journal of Medical Imaging, 2014, 1, 035002.	0.8	13
21	Miniature gastrointestinal endoscopy: Now and the future. World Journal of Gastroenterology, 2019, 25, 4051-4060.	1.4	13
22	New Endoscopic and Cytologic Tools for Cancer Surveillance in the Digestive Tract. Gastrointestinal Endoscopy Clinics of North America, 2009, 19, 299-307.	0.6	12
23	Path planning for semi-automated simulated robotic neurosurgery. , 2015, 2015, 2639-2645.		12
24	Toward real-time quantification of fluorescence molecular probes using target/background ratio for guiding biopsy and endoscopic therapy of esophageal neoplasia. Journal of Medical Imaging, 2017, 4, 1.	0.8	12
25	57.1: Near-eye Display using Scanning Fiber Display Engine. Digest of Technical Papers SID International Symposium, 2010, 41, 848-851.	0.1	11
26	Axial-Stereo 3-D Optical Metrology for Inner Profile of Pipes Using a Scanning Laser Endoscope. International Journal of Optomechatronics, 2015, 9, 238-247.	3.3	11
27	Controlling the Trajectory of a Flexible Ultrathin Endoscope for Fully Automated Bladder Surveillance. IEEE/ASME Transactions on Mechatronics, 2014, 19, 366-373.	3.7	10
28	Electromechanical Modeling and Adaptive Feedforward Control of a Self-Sensing Scanning Fiber Endoscope. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	10
29	Scanning Fiber Angioscopy. Neurosurgery, 2017, 64, 188-198.	0.6	10
30	Detection of Barrett's neoplasia with a near-infrared fluorescent heterodimeric peptide. Endoscopy, 2022, 54, 1198-1204.	1.0	10
31	Registration of free-hand OCT daughter endoscopy to 3D organ reconstruction. Biomedical Optics Express, 2016, 7, 4995.	1.5	9
32	P-37: Optical Fiber scanning as a Microdisplay source for a Wearable Low Vision Aid. Digest of Technical Papers SID International Symposium, 2002, 33, 338.	0.1	8
33	47.4: <i>Invited Paper</i> : 3D Displays using Scanning Laser Projection. Digest of Technical Papers SID International Symposium, 2012, 43, 640-643.	0.1	8
34	Scanning fiber endoscopy: a novel platform for cholangioscopy. Gastrointestinal Endoscopy, 2014, 79, 1000-1001.	0.5	8
35	P251L: <i>Late News Poster</i> : Miniature Wide-Angle Scanning Fiber Projection Display. Digest of Technical Papers SID International Symposium, 2008, 39, 2102-2105.	0.1	7
36	Three-dimensional DNA image cytometry by optical projection tomographic microscopy for early cancer diagnosis. Journal of Medical Imaging, 2014, 1, 017501.	0.8	7

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37	Near-Infrared Imaging of Artificial Enamel Caries Lesions with a Scanning Fiber Endoscope. <i>Sensors</i> , 2019, 19, 1419.	2.1	6
38	Letter to the Editor: Factors that Influence Quantification of Fluorescent Signal During the 5-ALA-Guided Surgery. <i>World Neurosurgery</i> , 2020, 139, 700-702.	0.7	6
39	Towards AR-assisted visualisation and guidance for imaging of dental decay. <i>Healthcare Technology Letters</i> , 2019, 6, 243-248.	1.9	6
40	Calibration of fluorescence imaging for tumor surgical margin delineation: multistep registration of fluorescence and histological images. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	6
41	197L: Late News Poster: 0° to 100° in 33 ms: Electronically Adjustable Throw Angle in a Scanning Fiber Pico Projector. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 1783-1786.	0.1	5
42	37.1: Invited Paper: 1mm Diameter, Full-color Scanning Fiber Pico Projector. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 522-525.	0.1	5
43	Image-guided intervention in the human bile duct using scanning fiber endoscope system. <i>Proceedings of SPIE</i> , 2012, , .	0.8	5
44	Mapping surgical fields by moving a laser-scanning multimodal scope attached to a robot arm. , 2014, 9036, .		5
45	Barrett's Esophagus Translational Research Network (BETRNet): The Pivotal Role of Multi-institutional Collaboration in Esophageal Adenocarcinoma Research. <i>Gastroenterology</i> , 2014, 146, 1586-1590.	0.6	5
46	Feature-Based Three-Dimensional Registration for Repetitive Geometry in Machine Vision. <i>Journal of Information Technology & Software Engineering</i> , 2016, 6, .	0.3	5
47	Method to Achieve High Frame Rates in a Scanning Fiber Endoscope. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011, 5, .	0.4	4
48	Toward real-time endoscopically-guided robotic navigation based on a 3D virtual surgical field model. , 2015, 9415, 94150C.		4
49	Near-infrared multispectral endoscopic imaging of deep artificial interproximal lesions in extracted teeth. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 459-465.	1.1	4
50	Implementation and evaluation of team science training for interdisciplinary teams in an engineering design program. <i>Journal of Clinical and Translational Science</i> , 2021, 5, e127.	0.3	4
51	54.3: Modeling and Control of the Resonant Fiber Scanner for Laser Scanning Display or Acquisition. <i>Digest of Technical Papers SID International Symposium</i> , 2003, 34, 1455.	0.1	3
52	Intensity-Mosaic: automatic panorama mosaicking of disordered images with insufficient features. <i>Journal of Medical Imaging</i> , 2021, 8, 054002.	0.8	3
53	Toward real-time tumor margin identification in image-guided robotic brain tumor resection. <i>Proceedings of SPIE</i> , 2017, 10135, .	0.8	3
54	Beyond isolated cells: microfluidic transport of large tissue for pancreatic cancer diagnosis. <i>Proceedings of SPIE</i> , 2015, 9320, .	0.8	2

#	ARTICLE	IF	CITATIONS
55	Ultrathin and flexible 4-channel scope for guiding surgical resections using a near-infrared fluorescence molecular probe for cancer. , 2018, , .		2
56	Cost-Efficient Video Synthesis and Evaluation for Development of Virtual 3D Endoscopy. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-11.	2.2	2
57	Synergistic Network Learning and Label Correction for Noise-Robust Image Classification. , 2022, , .		2
58	Prototype Development of a Temperature-Sensitive High-Adhesion Medical Tape to Reduce Medical-Adhesive-Related Skin Injury and Improve Quality of Care. International Journal of Molecular Sciences, 2022, 23, 7164.	1.8	2
59	64.1: Display Technologies for Therapeutic Applications of Virtual Reality. Digest of Technical Papers SID International Symposium, 2010, 41, 949-952.	0.1	1
60	Computer simulations driving improved implementation of Optical Projection Tomographic Microscopy. , 2014, , .		1
61	Intraductal Tissue Sampling Device Designed for the Biliary Tract. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-12.	2.2	1
62	Optimization Study of the Hemodynamics of Saline Flushing in Endoscopic Imaging of Chronic Total Occlusions (CTOs). Cardiovascular Engineering and Technology, 2021, 12, 541-555.	0.7	1
63	Custom bile duct phantom for first-in-human multiplexed NIR fluorescence peptide imaging. , 2019, , .		1
64	Real-Time Camera Localization during Robot-Assisted Telecystoscopy for Bladder Cancer Surveillance. Journal of Medical Robotics Research, 2022, 07, .	1.0	1
65	Axial-Stereo 3D Optical Metrology of Internally Machined Parts Using High-Quality Imaging from a Scanning Laser Endoscope. , 2014, , .		0
66	Run-to-Run Optimization Control Within Exact Inverse Framework for Scan Tracking. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, 0910111-9101112.	0.9	0