

# 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  | Detection of Barrett's neoplasia with a near-infrared fluorescent heterodimeric peptide. <i>Endoscopy</i> , 2022, 54, 1198-1204.   | 1.0 | 10        |
| 2  | Synergistic Network Learning and Label Correction for Noise-Robust Image Classification. , 2022, , .   |     | 2         |
| 3  | Real-Time Camera Localization during Robot-Assisted Telecystoscopy for Bladder Cancer Surveillance. <i>Journal of Medical Robotics Research</i> , 2022, 07, .  | 1.0 | 1         |
| 4  | Prototype Development of a Temperature-Sensitive High-Adhesion Medical Tape to Reduce Medical-Adhesive-Related Skin Injury and Improve Quality of Care. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7164. | 1.8 | 2         |
| 5  | 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        |
| 6  | Intraductal Tissue Sampling Device Designed for the Biliary Tract. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2021, 9, 1-12.  | 2.2 | 1         |
| 7  | Optimization Study of the Hemodynamics of Saline Flushing in Endoscopic Imaging of Chronic Total Occlusions (CTOs). <i>Cardiovascular Engineering and Technology</i> , 2021, 12, 541-555.                                    | 0.7 | 1         |
| 8  | Intensity-Mosaic: automatic panorama mosaicking of disordered images with insufficient features. <i>Journal of Medical Imaging</i> , 2021, 8, 054002.  | 0.8 | 3         |
| 9  | 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         |
| 10 | Cost-Efficient Video Synthesis and Evaluation for Development of Virtual 3D Endoscopy. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2021, 9, 1-11.  | 2.2 | 2         |
| 11 | 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         |
| 12 | Miniature gastrointestinal endoscopy: Now and the future. <i>World Journal of Gastroenterology</i> , 2019, 25, 4051-4060.  | 1.4 | 13        |
| 13 | RetinaMatch: Efficient Template Matching of Retina Images for Teleophthalmology. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1993-2004.  | 5.4 | 15        |
| 14 | Near-Infrared Imaging of Artificial Enamel Caries Lesions with a Scanning Fiber Endoscope. <i>Sensors</i> , 2019, 19, 1419.  | 2.1 | 6         |
| 15 | 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         |
| 16 | Towards AR-assisted visualisation and guidance for imaging of dental decay. <i>Healthcare Technology Letters</i> , 2019, 6, 243-248.   | 1.9 | 6         |
| 17 | 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        |
| 18 | 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         |

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|----|---|------|-----------|
| 19 | Custom bile duct phantom for first-in-human multiplexed NIR fluorescence peptide imaging. , 2019, , .   |      | 1         |
| 20 | Scanning Fiber Endoscope Improves Detection of 5-Aminolevulinic Acid-Induced Protoporphyrin IX Fluorescence at the Boundary of Infiltrative Glioma. World Neurosurgery, 2018, 113, e51-e69.               | 0.7  | 50        |
| 21 | Semi-autonomous image-guided brain tumour resection using an integrated robotic system: A benchtop study. International Journal of Medical Robotics and Computer Assisted Surgery, 2018, 14, e1872.       | 1.2  | 19        |
| 22 | Optical Characterization of Neurosurgical Operating Microscopes: Quantitative Fluorescence and Assessment of PpIX Photobleaching. Scientific Reports, 2018, 8, 12543.                                     | 1.6  | 37        |
| 23 | Ultrathin and flexible 4-channel scope for guiding surgical resections using a near-infrared fluorescence molecular probe for cancer. , 2018, , .   |      | 2         |
| 24 | Multimodal laser-based angioscopy for structural, chemical and biological imaging of atherosclerosis. Nature Biomedical Engineering, 2017, 1, .   | 11.6 | 38        |
| 25 | 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         |
| 26 | 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        |
| 27 | Three-dimensional measurement of small inner surface profiles using feature-based 3-D panoramic registration. Optical Engineering, 2017, 56, 014108.  | 0.5  | 23        |
| 28 | Scanning Fiber Angioscopy. Neurosurgery, 2017, 64, 188-198.   | 0.6  | 10        |
| 29 | Toward real-time tumor margin identification in image-guided robotic brain tumor resection. Proceedings of SPIE, 2017, 10135, .   | 0.8  | 3         |
| 30 | Feature-Based Three-Dimensional Registration for Repetitive Geometry in Machine Vision. Journal of Information Technology & Software Engineering, 2016, 6, .  | 0.3  | 5         |
| 31 | Registration of free-hand OCT daughter endoscopy to 3D organ reconstruction. Biomedical Optics Express, 2016, 7, 4995.  | 1.5  | 9         |
| 32 | 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        |
| 33 | Toward real-time endoscopically-guided robotic navigation based on a 3D virtual surgical field model. , 2015, 9415, 94150C.   |      | 4         |
| 34 | Path planning for semi-automated simulated robotic neurosurgery. , 2015, 2015, 2639-2645.   |      | 12        |
| 35 | Semi-autonomous simulated brain tumor ablation with RAVENII Surgical Robot using behavior tree. , 2015, 2015, 3868-3875.  |      | 67        |
| 36 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Rapid scanning catheterscope for expanded forward-view volumetric imaging with optical coherence tomography. Optics Letters, 2015, 40, 3165.   | 1.7 | 18        |
| 38 | Beyond isolated cells: microfluidic transport of large tissue for pancreatic cancer diagnosis. Proceedings of SPIE, 2015, 9320, .  | 0.8 | 2         |
| 39 | Axial-Stereo 3D Optical Metrology of Internally Machined Parts Using High-Quality Imaging from a Scanning Laser Endoscope. , 2014, , .   |     | 0         |
| 40 | Three-dimensional DNA image cytometry by optical projection tomographic microscopy for early cancer diagnosis. Journal of Medical Imaging, 2014, 1, 017501.  | 0.8 | 7         |
| 41 | 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        |
| 42 | Mapping surgical fields by moving a laser-scanning multimodal scope attached to a robot arm. , 2014, 9036, .   |     | 5         |
| 43 | Target-to-background enhancement in multispectral endoscopy with background autofluorescence mitigation for quantitative molecular imaging. Journal of Biomedical Optics, 2014, 19, 076014.        | 1.4 | 30        |
| 44 | Scanning fiber endoscopy: a novel platform for cholangioscopy. Gastrointestinal Endoscopy, 2014, 79, 1000-1001.  | 0.5 | 8         |
| 45 | Computer simulations driving improved implementation of Optical Projection Tomographic Microscopy. , 2014, , .   |     | 1         |
| 46 | Barrett's Esophagus Translational Research Network (BETRNet): The Pivotal Role of Multi-institutional Collaboration in Esophageal Adenocarcinoma Research. Gastroenterology, 2014, 146, 1586-1590. | 0.6 | 5         |
| 47 | 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        |
| 48 | Trimodal detection of early childhood caries using laser light scanning and fluorescence spectroscopy: clinical prototype. Journal of Biomedical Optics, 2013, 18, 111412.                         | 1.4 | 19        |
| 49 | Targeted detection of murine colonic dysplasia in vivo with flexible multispectral scanning fiber endoscopy. Journal of Biomedical Optics, 2012, 17, 021103.                                       | 1.4 | 71        |
| 50 | 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         |
| 51 | Spectrally enhanced imaging of occlusal surfaces and artificial shallow enamel erosions with a scanning fiber endoscope. Journal of Biomedical Optics, 2012, 17, 0760191.                          | 1.4 | 16        |
| 52 | Image-guided intervention in the human bile duct using scanning fiber endoscope system. Proceedings of SPIE, 2012, , .   | 0.8 | 5         |
| 53 | Surface Mosaics of the Bladder Reconstructed From Endoscopic Video for Automated Surveillance. IEEE Transactions on Biomedical Engineering, 2012, 59, 1670-1680.                                   | 2.5 | 68        |
| 54 | Method to Achieve High Frame Rates in a Scanning Fiber Endoscope. Journal of Medical Devices, Transactions of the ASME, 2011, 5, .   | 0.4 | 4         |

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|----|--|-----|-----------|
| 55 | 64.1: Display Technologies for Therapeutic Applications of Virtual Reality. Digest of Technical Papers SID International Symposium, 2010, 41, 949-952.   | 0.1 | 1         |
| 56 | Scanning fiber endoscopy with highly flexible, 1 mm catheterscopes for wide-field, full-color imaging. Journal of Biophotonics, 2010, 3, 385-407.  | 1.1 | 257       |
| 57 | 57.1: Near-Eye Display using Scanning Fiber Display Engine. Digest of Technical Papers SID International Symposium, 2010, 41, 848-851.   | 0.1 | 11        |
| 58 | 44.1: Volumetric Display using Scanned Fiber Array. Digest of Technical Papers SID International Symposium, 2010, 41, 653-656.   | 0.1 | 18        |
| 59 | 197L: Late News Poster: 0° to 100° in 33 ms: Electronically Adjustable Throw Angle in a Scanning Fiber Pico Projector. Digest of Technical Papers SID International Symposium, 2009, 40, 1783-1786.                  | 0.1 | 5         |
| 60 | 37.1: Invited Paper: 1-mm Diameter, Full-color Scanning Fiber Pico Projector. Digest of Technical Papers SID International Symposium, 2009, 40, 522-525.   | 0.1 | 5         |
| 61 | 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        |
| 62 | Tethered Capsule Endoscopy, A Low-Cost and High-Performance Alternative Technology for the Screening of Esophageal Cancer and Barrett's Esophagus. IEEE Transactions on Biomedical Engineering, 2008, 55, 1032-1042. | 2.5 | 75        |
| 63 | 251L: Late News Poster: Miniature Wide-Throw Angle Scanning Fiber Projection Display. Digest of Technical Papers SID International Symposium, 2008, 39, 2102-2105.   | 0.1 | 7         |
| 64 | 54.3: Modeling and Control of the Resonant Fiber Scanner for Laser Scanning Display or Acquisition. Digest of Technical Papers SID International Symposium, 2003, 34, 1455.  | 0.1 | 3         |
| 65 | 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         |
| 66 | Unique features of optical scanning, single fiber endoscopy. Lasers in Surgery and Medicine, 2002, 30, 177-183.  | 1.1 | 120       |