Martin Villiger

List of Publications by Year in descending order

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MADTIN VILLICED

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Confocal 3D reflectance imaging through multimode fiber without wavefront shaping. Optica, 2022, 9, 112. | 9.3 | 12 |
| 2 | Detection of lipid at video rate with spectroscopic transient-mode photo-thermal optical coherence tomography (TM-PT-OCT). , 2022, , . | | 1 |
| 3 | Measuring collagen injury depth for burn severity determination using polarization sensitive optical coherence tomography. Scientific Reports, 2022, 12, . | 3.3 | 6 |
| 4 | Polarization-Sensitive Endobronchial Optical Coherence Tomography for Microscopic Imaging of Fibrosis in Interstitial Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 905-910. | 5.6 | 8 |
| 5 | Rapid non-destructive volumetric tumor yield assessment in fresh lung core needle biopsies using polarization sensitive optical coherence tomography. Biomedical Optics Express, 2021, 12, 5597. | 2.9 | 9 |
| 6 | Polarimetric Signatures of Coronary Thrombus in Patients With Acute Coronary Syndrome. Circulation Journal, 2021, 85, 1806-1813. | 1.6 | 4 |
| 7 | Spectral- and Polarization-Dependent Scattering of Gold Nanobipyramids for Exogenous Contrast in Optical Coherence Tomography. Nano Letters, 2021, 21, 8595-8601. | 9.1 | 8 |
| 8 | Transient-Mode Photothermal Optical Coherence Tomography. Optics Letters, 2021, 46, 5703-5706. | 3.3 | 8 |
| 9 | Transient-mode photothermal optical coherence tomography. , 2021, , . | | 1 |
| 10 | Biomechanical Stress Profiling of Coronary Atherosclerosis. JACC: Cardiovascular Imaging, 2020, 13, 804-816. | 5.3 | 32 |
| 11 | Intravascular Polarimetry in Patients With Coronary Artery Disease. JACC: Cardiovascular Imaging, 2020, 13, 790-801. | 5.3 | 35 |
| 12 | A topological encoding convolutional neural network for segmentation of 3D multiphoton images of brain vasculature using persistent homology. , 2020, 2020, 4262-4271. | | 11 |
| 13 | Reciprocity-induced symmetry in the round-trip transmission through complex systems. APL Photonics, 2020, 5, . | 5.7 | 8 |
| 14 | Intravascular Polarimetry: Clinical Translation and Future Applications of Catheter-Based Polarization Sensitive Optical Frequency Domain Imaging. Frontiers in Cardiovascular Medicine, 2020, 7, 146. | 2.4 | 10 |
| 15 | Vectorial birefringence imaging by optical coherence microscopy for assessing fibrillar microstructures in the cornea and limbus. Biomedical Optics Express, 2020, 11, 1122. | 2.9 | 20 |
| 16 | Forward multiple scattering dominates speckle decorrelation in whole-blood flowmetry using optical coherence tomography. Biomedical Optics Express, 2020, 11, 1947. | 2.9 | 13 |
| 17 | Single-shot depth profiling by spatio-temporal encoding with a multimode fiber. Optics Express, 2020, 28, 1124. | 3.4 | 6 |
| 18 | Automated noise estimation in polarization-sensitive optical coherence tomography. Optics Letters, 2020, 45, 2748. | 3.3 | 6 |

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|----|--|-------------|------------------|
| 19 | Linear-in-wavenumber actively-mode-locked wavelength-swept laser. Optics Letters, 2020, 45, 5327. | 3.3 | 7 |
| 20 | In vivo imaging of the depth-resolved optic axis of birefringence in human skin. Optics Letters, 2020, 45, 4919. | 3.3 | 17 |
| 21 | Future Development. , 2020, , 175-191. | | 1 |
| 22 | Effects of lipid composition on photothermal optical coherence tomography signals. Journal of Biomedical Optics, 2020, 25, . | 2.6 | 12 |
| 23 | Polarimetric Signatures of Vascular Tissue Response to Drug-Eluting Stent Implantation in Patients. JACC: Cardiovascular Imaging, 2020, 13, 2695-2696. | 5.3 | 5 |
| 24 | Influence of tissue fixation on depth-resolved birefringence of oral cavity tissue samples. Journal of Biomedical Optics, 2020, 25, . | 2.6 | 0 |
| 25 | Influence of tissue fixation on depth-resolved birefringence of oral cavity tissue samples. Journal of Biomedical Optics, 2020, 25, . | 2.6 | 1 |
| 26 | Distinguishing Tumor from Associated Fibrosis to Increase Diagnostic Biopsy Yield with Polarization-Sensitive Optical Coherence Tomography. Clinical Cancer Research, 2019, 25, 5242-5249. | 7.0 | 28 |
| 27 | Intravascular Polarimetry for Tissue Characterization of Coronary Atherosclerosis. Circulation Reports, 2019, 1, 550-557. | 1.0 | 6 |
| 28 | Polarization-Sensitive Optical Coherence Tomography with a Single Input Polarization State. , 2019, , . | | 0 |
| 29 | Quantitative depolarization measurements for fiberâ€based polarizationâ€sensitive optical frequency domain imaging of the retinal pigment epithelium. Journal of Biophotonics, 2019, 12, e201800156. | 2.3 | 19 |
| 30 | Depth-resolved birefringence imaging of collagen fiber organization in the human oral mucosa in vivo. Biomedical Optics Express, 2019, 10, 1942. | 2.9 | 41 |
| 31 | Balloon catheter-based radiofrequency ablation monitoring in porcine esophagus using optical coherence tomography. Biomedical Optics Express, 2019, 10, 2067. | 2.9 | 14 |
| 32 | Constrained polarization evolution simplifies depth-resolved retardation measurements with polarization-sensitive optical coherence tomography. Biomedical Optics Express, 2019, 10, 5207. | 2.9 | 12 |
| 33 | å剿"Ÿå⊷性å‰å¹²æ¸‰æ–屿³•ã«ã,ˆã,‹å†å‹•è"^硬化性ç–å‱ã®è¨²æ–ãëãã®è‡¨å²Šå¿œç"¨. Jourr | al of JCS (| Cardiologists, 2 |
| 34 | Coronary Plaque Microstructure and Composition Modify Optical Polarization. JACC: Cardiovascular Imaging, 2018, 11, 1666-1676. | 5.3 | 54 |
| 35 | Repeatability Assessment of Intravascular Polarimetry in Patients. IEEE Transactions on Medical Imaging, 2018, 37, 1618-1625. | 8.9 | 18 |
| 36 | Skin regeneration with all accessory organs following ablation with irreversible electroporation. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 98-113. | 2.7 | 22 |

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|----|--|------|-----------|
| 37 | Wide-Field Functional Microscopy of Peripheral Nerve Injury and Regeneration. Scientific Reports, 2018, 8, 14004. | 3.3 | 23 |
| 38 | Rejuvenation of aged rat skin with pulsed electric fields. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2309-2318. | 2.7 | 8 |
| 39 | Robust wavenumber and dispersion calibration for Fourier-domain optical coherence tomography. Optics Express, 2018, 26, 9081. | 3.4 | 26 |
| 40 | Robust reconstruction of local optic axis orientation with fiber-based polarization-sensitive optical coherence tomography. Biomedical Optics Express, 2018, 9, 5437. | 2.9 | 48 |
| 41 | Optic axis mapping with catheter-based polarization-sensitive optical coherence tomography. Optica, 2018, 5, 1329. | 9.3 | 68 |
| 42 | Optimal selection of laser modulation parameters in photothermal optical coherence tomography. , 2017, , . | | 1 |
| 43 | Depolarization signatures map gold nanorods within biological tissue. Nature Photonics, 2017, 11, 583-588. | 31.4 | 25 |
| 44 | Laser thermal therapy monitoring using complex differential variance in optical coherence tomography. Journal of Biophotonics, 2017, 10, 84-91. | 2.3 | 17 |
| 45 | Prediction of Scar Size in Rats Six Months after Burns Based on Early Post-injury Polarization-Sensitive Optical Frequency Domain Imaging. Frontiers in Physiology, 2017, 8, 967. | 2.8 | 6 |
| 46 | Intravascular optical coherence tomography [Invited]. Biomedical Optics Express, 2017, 8, 2660. | 2.9 | 67 |
| 47 | Tissue-like phantoms for quantitative birefringence imaging. Biomedical Optics Express, 2017, 8, 4454. | 2.9 | 23 |
| 48 | Extended bandwidth wavelength swept laser source for high resolution optical frequency domain imaging. Optics Express, 2017, 25, 8255. | 3.4 | 20 |
| 49 | Neoatherosclerosis development following bioresorbable vascular scaffold implantation in diabetic and non-diabetic swine. PLoS ONE, 2017, 12, e0183419. | 2.5 | 5 |
| 50 | Definitive depolarization signatures in nanomedicine. , 2017, , . | | 0 |
| 51 | Automatic classification of atherosclerotic plaques imaged with intravascular OCT. Biomedical Optics Express, 2016, 7, 4069. | 2.9 | 45 |
| 52 | Deep tissue volume imaging of birefringence through fibre-optic needle probes for the delineation of breast tumour. Scientific Reports, 2016, 6, 28771. | 3.3 | 119 |
| 53 | Preventing Scars after Injury with Partial Irreversible Electroporation. Journal of Investigative Dermatology, 2016, 136, 2297-2304. | 0.7 | 22 |
| 54 | Birefringence microscopy platform for assessing airway smooth muscle structure and function in vivo. Science Translational Medicine, 2016, 8, 359ra131. | 12.4 | 92 |

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|----|---|-----|-----------|
| 55 | Longitudinal three-dimensional visualisation of autoimmune diabetes by functional optical coherence imaging. Diabetologia, 2016, 59, 550-559. | 6.3 | 30 |
| 56 | First-in-man assessment of plaque rupture by polarization-sensitive optical frequency domain imaging <i>in vivo</i> . European Heart Journal, 2016, 37, 1932-1932. | 2.2 | 33 |
| 57 | Longitudinal, 3D Imaging ofÂCollagen Remodeling in MurineÂHypertrophic ScarsÂln Vivo Using Polarization-Sensitive Optical Frequency Domain Imaging. Journal of Investigative Dermatology, 2016, 136, 84-92. | 0.7 | 40 |
| 58 | Ultrahigh-resolution optical coherence elastography. Optics Letters, 2016, 41, 21. | 3.3 | 42 |
| 59 | An automated image processing method to quantify collagen fibre organization within cutaneous scar tissue. Experimental Dermatology, 2015, 24, 78-80. | 2.9 | 34 |
| 60 | Laser tissue coagulation and concurrent optical coherence tomography through a double-clad fiber coupler. Biomedical Optics Express, 2015, 6, 1293. | 2.9 | 37 |
| 61 | Single input state, single-mode fiber-based polarization-sensitive optical frequency domain imaging by eigenpolarization referencing. Optics Letters, 2015, 40, 2025. | 3.3 | 20 |
| 62 | Degree of polarization (uniformity) and depolarization index: unambiguous depolarization contrast for optical coherence tomography. Optics Letters, 2015, 40, 3954. | 3.3 | 46 |
| 63 | Practical decomposition for physically admissible differential Mueller matrices. Optics Letters, 2014, 39, 1779. | 3.3 | 27 |
| 64 | Quantitative technique for robust and noise-tolerant speed measurements based on speckle decorrelation in optical coherence tomography. Optics Express, 2014, 22, 24411. | 3.4 | 59 |
| 65 | All-fiber wavelength swept ring laser based on Fabry-Perot filter for optical frequency domain imaging. Optics Express, 2014, 22, 25805. | 3.4 | 39 |
| 66 | Artifacts in polarization-sensitive optical coherence tomography caused by polarization mode dispersion. Optics Letters, 2013, 38, 923. | 3.3 | 54 |
| 67 | Seeing beyond the Bronchoscope to Increase the Diagnostic Yield of Bronchoscopic Biopsy. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 125-129. | 5.6 | 52 |
| 68 | Spectral binning for mitigation of polarization mode dispersion artifacts in catheter-based optical frequency domain imaging. Optics Express, 2013, 21, 16353. | 3.4 | 113 |
| 69 | Diabetes imaging—quantitative assessment of islets of Langerhans distribution in murine pancreas using extended-focus optical coherence microscopy. Biomedical Optics Express, 2012, 3, 1365. | 2.9 | 19 |
| 70 | Fast three-dimensional imaging of gold nanoparticles in living cells with photothermal optical lock-in Optical Coherence Microscopy. Optics Express, 2012, 20, 21385. | 3.4 | 65 |
| 71 | Label-Free Imaging of Cerebral β-Amyloidosis with Extended-Focus Optical Coherence Microscopy. Journal of Neuroscience, 2012, 32, 14548-14556. | 3.6 | 52 |
| 72 | Injury depth control from combined wavelength and power tuning in scanned beam laser thermal therapy. Journal of Biomedical Optics, 2011, 16, 118001. | 2.6 | 11 |

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|----|--|-----|-----------|
| 73 | Dark-field optical coherence microscopy. Optics Letters, 2010, 35, 3489. | 3.3 | 62 |