

# Gijs van Soest

## List of Publications by Year in descending order

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Version: 2024-02-01

157  
papers

5,995  
citations

81900

39  
h-index

76900

74  
g-index

163  
all docs

163  
docs citations

163  
times ranked

5168  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Consensus Standards for Acquisition, Measurement, and Reporting of Intravascular Optical Coherence Tomography Studies. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1058-1072.      | 2.8 | 1,530     |
| 2  | Optical coherence tomography patterns of stent restenosis. <i>American Heart Journal</i> , 2009, 158, 284-293.  | 2.7 | 309       |
| 3  | Intravascular photoacoustic imaging of human coronary atherosclerosis. <i>Optics Letters</i> , 2011, 36, 597.   | 3.3 | 241       |
| 4  | Atherosclerotic tissue characterization in vivo by optical coherence tomography attenuation imaging. <i>Journal of Biomedical Optics</i> , 2010, 15, 011105.  | 2.6 | 217       |
| 5  | Hybrid intravascular imaging: recent advances, technical considerations, and current applications in the study of plaque pathophysiology. <i>European Heart Journal</i> , 2017, 38, 400-412.            | 2.2 | 152       |
| 6  | Photoacoustic imaging of human coronary atherosclerosis in two spectral bands. <i>Photoacoustics</i> , 2014, 2, 12-20.  | 7.8 | 120       |
| 7  | Diagnosis of Vertical Root Fractures with Optical Coherence Tomography. <i>Journal of Endodontics</i> , 2008, 34, 739-742.  | 3.1 | 111       |
| 8  | Intravascular Photoacoustic Imaging: A New Tool for Vulnerable Plaque Identification. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1037-1048.  | 1.5 | 104       |
| 9  | Pitfalls in Plaque Characterization by OCT. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 810-813.   | 5.3 | 103       |
| 10 | Intravascular optical coherence tomography imaging at 3200 frames per second. <i>Optics Letters</i> , 2013, 38, 1715.   | 3.3 | 103       |
| 11 | OCT Assessment of the Long-Term Vascular Healing Response 5 Years After Everolimus-Eluting Bioresorbable Vascular Scaffold. <i>Journal of the American College of Cardiology</i> , 2014, 64, 2343-2356. | 2.8 | 101       |
| 12 | Vulnerable plaques and patients: state-of-the-art. <i>European Heart Journal</i> , 2020, 41, 2997-3004.   | 2.2 | 98        |
| 13 | Amplifying volume in scattering media. <i>Optics Letters</i> , 1999, 24, 306.   | 3.3 | 95        |
| 14 | High-Definition Imaging of Carotid Artery Wall Dynamics. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2392-2403.   | 1.5 | 90        |
| 15 | Spontaneous Coronary Artery Dissection. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2475-2488.  | 5.3 | 88        |
| 16 | Heartbeat OCT: in vivo intravascular megahertz-optical coherence tomography. <i>Biomedical Optics Express</i> , 2015, 6, 5021.  | 2.9 | 80        |
| 17 | Real-time volumetric lipid imaging in vivo by intravascular photoacoustics at 20 frames per second. <i>Biomedical Optics Express</i> , 2017, 8, 943.  | 2.9 | 80        |
| 18 | Dynamics of a Random Laser above Threshold. <i>Physical Review Letters</i> , 2001, 86, 1522-1525.   | 7.8 | 77        |

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|----|---|-----|-----------|
| 19 | Enhanced backscattering from photonic crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 268, 104-111.  | 2.1 | 74        |
| 20 | Spectroscopic intravascular photoacoustic imaging of lipids in atherosclerosis. <i>Journal of Biomedical Optics</i> , 2014, 19, 026006.   | 2.6 | 63        |
| 21 | Photoacoustic imaging of carotid artery atherosclerosis. <i>Journal of Biomedical Optics</i> , 2014, 19, 110504.  | 2.6 | 61        |
| 22 | The Ability of Optical Coherence Tomography to Characterize the Root Canal Walls. <i>Journal of Endodontics</i> , 2007, 33, 1369-1373.  | 3.1 | 60        |
| 23 | Lipid detection in atherosclerotic human coronaries by spectroscopic intravascular photoacoustic imaging. <i>Optics Express</i> , 2013, 21, 21472.  | 3.4 | 60        |
| 24 | Plane-wave ultrasound beamforming using a nonuniform fast fourier transform. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 2684-91.  | 3.0 | 58        |
| 25 | Specific imaging of atherosclerotic plaque lipids with two-wavelength intravascular photoacoustics. <i>Biomedical Optics Express</i> , 2015, 6, 3276.   | 2.9 | 58        |
| 26 | SCIAMACHY Level 1 data: calibration concept and in-flight calibration. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5347-5367.   | 4.9 | 57        |
| 27 | Reproducibility of coronary Fourier domain optical coherence tomography: quantitative analysis of in vivo stented coronary arteries using three different software packages. <i>EuroIntervention</i> , 2010, 6, 371-379.  | 3.2 | 57        |
| 28 | $\hat{\rho}^2$ factor in a random laser. <i>Physical Review E</i> , 2002, 65, 047601.   | 2.1 | 55        |
| 29 | Coronary Plaque Microstructure and Composition Modify Optical Polarization. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1666-1676.  | 5.3 | 54        |
| 30 | Robust intravascular optical coherence elastography by line correlations. <i>Physics in Medicine and Biology</i> , 2007, 52, 2445-2458.   | 3.0 | 52        |
| 31 | Tomografía de coherencia óptica de segunda generación en la práctica clínica. La adquisición de datos de alta velocidad muestra una reproducibilidad excelente en pacientes tratados con intervenciones coronarias percutáneas. <i>Revista Espanola De Cardiologia</i> , 2010, 63, 893-903. | 1.2 | 52        |
| 32 | First use in patients of a combined near infra-red spectroscopy and intra-vascular ultrasound catheter to identify composition and structure of coronary plaque. <i>EuroIntervention</i> , 2010, 5, 755-756.  | 3.2 | 52        |
| 33 | Parametric imaging of attenuation by optical coherence tomography: review of models, methods, and clinical translation. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.  | 2.6 | 51        |
| 34 | A Front-End ASIC With High-Voltage Transmit Switching and Receive Digitization for 3-D Forward-Looking Intravascular Ultrasound Imaging. <i>IEEE Journal of Solid-State Circuits</i> , 2018, 53, 2284-2297.   | 5.4 | 49        |
| 35 | Azimuthal Registration of Image Sequences Affected by Nonuniform Rotation Distortion. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008, 12, 348-355.  | 3.2 | 48        |
| 36 | The diagnostic value of intracoronary optical coherence tomography. <i>Herz</i> , 2011, 36, 417-429.  | 1.1 | 48        |

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|----|---|-----|-----------|
| 37 | Safety of optical coherence tomography in daily practice: a comparison with intravascular ultrasound. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, jew037.  | 1.2 | 47        |
| 38 | Development of a high-speed synchronous micro motor and its application in intravascular imaging. <i>Sensors and Actuators A: Physical</i> , 2014, 218, 60-68.  | 4.1 | 43        |
| 39 | Optical Coherence Tomography: Potential Clinical Applications. <i>Current Cardiovascular Imaging Reports</i> , 2012, 5, 206-220.  | 0.6 | 36        |
| 40 | Contrast-Enhanced Intravascular Ultrasound Pulse Sequences for Bandwidth-Limited Transducers. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 706-713.  | 1.5 | 36        |
| 41 | Intravascular Polarimetry in Patients With Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 790-801.  | 5.3 | 35        |
| 42 | Amplification and diffusion of spontaneous emission in strongly scattering medium. <i>Journal of Applied Physics</i> , 2000, 87, 7623-7628.   | 2.5 | 34        |
| 43 | Biomechanical Stress Profiling of Coronary Atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 804-816.  | 5.3 | 32        |
| 44 | A 2-D Ultrasound Transducer With Front-End ASIC and Low Cable Count for 3-D Forward-Looking Intravascular Imaging: Performance and Characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1832-1844.  | 3.0 | 31        |
| 45 | Combined optical coherence tomography and intravascular ultrasound radio frequency data analysis for plaque characterization. Classification accuracy of human coronary plaques in vitro. <i>International Journal of Cardiovascular Imaging</i> , 2010, 26, 843-850.   | 1.5 | 29        |
| 46 | Real-time photoacoustic assessment of radiofrequency ablation lesion formation in the left atrium. <i>Photoacoustics</i> , 2019, 16, 100150.  | 7.8 | 29        |
| 47 | Imaging Microvasculature with Contrast-Enhanced Ultraharmonic Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1318-1328.  | 1.5 | 27        |
| 48 | Lipid signature of advanced human carotid atherosclerosis assessed by mass spectrometry imaging. <i>Journal of Lipid Research</i> , 2021, 62, 100020.   | 4.2 | 27        |
| 49 | Quantification of fibrous cap thickness in intracoronary optical coherence tomography with a contour segmentation method based on dynamic programming. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1383-1394.   | 2.8 | 25        |
| 50 | Intravascular imaging for characterization of coronary atherosclerosis. <i>Current Opinion in Biomedical Engineering</i> , 2017, 3, 1-12.   | 3.4 | 25        |
| 51 | Spectroscopic photoacoustic imaging of radiofrequency ablation in the left atrium. <i>Biomedical Optics Express</i> , 2018, 9, 1309.  | 2.9 | 25        |
| 52 | Interstudy reproducibility of the second generation, Fourier domain optical coherence tomography in patients with coronary artery disease and comparison with intravascular ultrasound: a study applying automated contour detection. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 39-51. | 1.5 | 24        |
| 53 | Frequency Analysis of the Photoacoustic Signal Generated by Coronary Atherosclerotic Plaque. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 2017-2025.   | 1.5 | 24        |
| 54 | Optical coherence tomography attenuation imaging for lipid core detection: an ex-vivo validation study. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 5-11.  | 1.5 | 22        |

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|----|--|------|-----------|
| 55 | Frequency Tuning of Collapse-Mode Capacitive Micromachined Ultrasonic Transducer. <i>Ultrasonics</i> , 2017, 74, 144-152.  | 3.9  | 22        |
| 56 | Data Processing Pipeline for Lipid Profiling of Carotid Atherosclerotic Plaque with Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1790-1800.   | 2.8  | 22        |
| 57 | Contour segmentation of the intima, media, and adventitia layers in intracoronary OCT images: application to fully automatic detection of healthy wall regions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1923-1936. | 2.8  | 21        |
| 58 | Emerging Technology Update Intravascular Photoacoustic Imaging of Vulnerable Atherosclerotic Plaque. <i>Interventional Cardiology Review</i> , 2016, 11, 120.  | 1.6  | 20        |
| 59 | Effect of temperature and fixation on the optical properties of atherosclerotic tissue: a validation study of an ex-vivo whole heart cadaveric model. <i>Biomedical Optics Express</i> , 2014, 5, 1038.  | 2.9  | 19        |
| 60 | Photonics in cardiovascular medicine. <i>Nature Photonics</i> , 2015, 9, 626-629.  | 31.4 | 19        |
| 61 | Heartbeat OCT and Motion-Free 3D In-Vivo Coronary Artery Microscopy. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 622-623.   | 5.3  | 19        |
| 62 | Repeatability Assessment of Intravascular Polarimetry in Patients. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1618-1625.  | 8.9  | 18        |
| 63 | A Broadband Polyvinylidene Difluoride-Based Hydrophone with Integrated Readout Circuit for Intravascular Photoacoustic Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1239-1243.   | 1.5  | 17        |
| 64 | Structured ultrasound microscopy. <i>Applied Physics Letters</i> , 2018, 112, .  | 3.3  | 17        |
| 65 | Photoacoustic imaging for guidance of interventions in cardiovascular medicine. <i>Physics in Medicine and Biology</i> , 2019, 64, 16TR01.   | 3.0  | 17        |
| 66 | Imaging atherosclerotic plaque composition with intracoronary optical coherence tomography. <i>Netherlands Heart Journal</i> , 2009, 17, 448-450.  | 0.8  | 16        |
| 67 | Thermo-elastic optical coherence tomography. <i>Optics Letters</i> , 2017, 42, 3466.   | 3.3  | 16        |
| 68 | Sparse Ultrasound Image Reconstruction From a Shape-Sensing Single-Element Forward-Looking Catheter. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2210-2218.   | 4.2  | 16        |
| 69 | Speckle experiments in random lasers. <i>Physical Review E</i> , 2002, 65, 046603.   | 2.1  | 15        |
| 70 | Impact of device geometry on the imaging characteristics of an intravascular photoacoustic catheter. <i>Applied Optics</i> , 2014, 53, 8131.   | 2.1  | 15        |
| 71 | Intracoronary optical coherence tomography and the evaluation of stents. <i>Expert Review of Medical Devices</i> , 2009, 6, 157-167.   | 2.8  | 14        |
| 72 | Frequency domain multiplexing for speckle reduction in optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 0760181.  | 2.6  | 14        |

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|----|--|-----|-----------|
| 73 | In vivo intravascular photoacoustic imaging of plaque lipid in coronary atherosclerosis. <i>EuroIntervention</i> , 2019, 15, 452-456.  | 3.2 | 14        |
| 74 | Quantitative Optical Coherence Tomography Tissue-Type Imaging for Lipid-Core Plaque Detection. <i>JACC: Cardiovascular Interventions</i> , 2013, 6, 891-892.   | 2.9 | 13        |
| 75 | Automated Quantitative Assessment of Coronary Calcification Using Intravascular Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 2801-2809.   | 1.5 | 12        |
| 76 | Motorized capsule for shadow-free OCT imaging and synchronous beam control. <i>Optics Letters</i> , 2019, 44, 3641.  | 3.3 | 12        |
| 77 | OCT-measured plaque free wall angle is indicative for plaque burden: overcoming the main limitation of OCT?. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 1477-1481.                   | 1.5 | 11        |
| 78 | Preclinical Testing of Frequency-Tunable Capacitive Micromachined Ultrasonic Transducer Probe Prototypes. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 2079-2085.                                   | 1.5 | 11        |
| 79 | Automated characterisation of lipid core plaques in vivo by quantitative optical coherence tomography tissue type imaging. <i>EuroIntervention</i> , 2016, 12, 1490-1497.                                    | 3.2 | 11        |
| 80 | A Micromotor Catheter for Intravascular Optical Coherence Tomography. <i>Engineering</i> , 2015, 1, 015-017.   | 6.7 | 10        |
| 81 | Real-Time Coded Excitation Imaging Using a CMUT-Based Side Looking Array for Intravascular Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2048-2058. | 3.0 | 10        |
| 82 | Nanosecond SRS fiber amplifier for label-free near-infrared photoacoustic microscopy of lipids. <i>Photoacoustics</i> , 2022, 25, 100331.  | 7.8 | 10        |
| 83 | Intravascular photoacoustic imaging of human coronary atherosclerosis. , 2011, , .   |     | 9         |
| 84 | Quantitative imaging performance of frequency-tunable capacitive micromachined ultrasonic transducer array designed for intracardiac application: Phantom study. <i>Ultrasonics</i> , 2018, 84, 421-429.     | 3.9 | 9         |
| 85 | Simultaneous Morphological and Flow Imaging Enabled by Megahertz Intravascular Doppler Optical Coherence Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1535-1544.                      | 8.9 | 9         |
| 86 | Micro Spectroscopic Photoacoustic ( $\frac{1}{4}$ sPA) imaging of advanced carotid atherosclerosis. <i>Photoacoustics</i> , 2021, 22, 100261.  | 7.8 | 9         |
| 87 | Numerical analysis of astigmatism correction in gradient refractive index lens based optical coherence tomography catheters. <i>Applied Optics</i> , 2012, 51, 5244.   | 1.8 | 8         |
| 88 | 3D Imaging with a single-element forward-looking steerable IVUS catheter: initial testing. , 2016, , .   |     | 8         |
| 89 | A front-end ASIC with high-voltage transmit switching and receive digitization for forward-looking intravascular ultrasound. , 2017, , .   |     | 8         |
| 90 | Improving the Performance of a 1-D Ultrasound Transducer Array by Subdicing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1161-1171.                           | 3.0 | 7         |

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|-----|--|-----|-----------|
| 91  | Laser-driven resonance of dye-doped oil-coated microbubbles: A theoretical and numerical study. Journal of the Acoustical Society of America, 2017, 141, 2727-2745.                                  | 1.1 | 7         |
| 92  | Qualitative and quantitative evaluation of dynamic changes in non-culprit coronary atherosclerotic lesion morphology: a longitudinal OCT study. EuroIntervention, 2018, 13, 2190-2200.               | 3.2 | 7         |
| 93  | Ultrasound-guided photoacoustic image reconstruction: image completion and boundary suppression. Journal of Biomedical Optics, 2013, 18, 096017.   | 2.6 | 6         |
| 94  | Measuring submicrometer displacement vectors using high-frame-rate ultrasound imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1733-1744.                 | 3.0 | 6         |
| 95  | Laser-driven resonance of dye-doped oil-coated microbubbles: Experimental study. Journal of the Acoustical Society of America, 2017, 141, 4832-4846.   | 1.1 | 6         |
| 96  | The Prognostic Value of a Validated and Automated Intravascular Ultrasound-Derived Calcium Score. Journal of Cardiovascular Translational Research, 2021, 14, 992-1000.                              | 2.4 | 6         |
| 97  | Photoacoustic flow velocity imaging based on complex field decorrelation. Photoacoustics, 2021, 22, 100256.  | 7.8 | 6         |
| 98  | Semi-automated Quantification of Fibrous Cap Thickness in Intracoronary Optical Coherence Tomography. Lecture Notes in Computer Science, 2014, , 78-89.  | 1.3 | 6         |
| 99  | An intravascular photoacoustic imaging catheter. , 2010, , .   |     | 5         |
| 100 | High frame rate ultrasound imaging of human carotid artery dynamics. , 2012, , .   |     | 5         |
| 101 | Neoatherosclerosis development following bioresorbable vascular scaffold implantation in diabetic and non-diabetic swine. PLoS ONE, 2017, 12, e0183419.  | 2.5 | 5         |
| 102 | In-vitro and in-vivo imaging of coronary artery stents with Heartbeat OCT. International Journal of Cardiovascular Imaging, 2020, 36, 1021-1029.   | 1.5 | 5         |
| 103 | Polarimetric Signatures of Vascular Tissue Response to Drug-Eluting Stent Implantation in Patients. JACC: Cardiovascular Imaging, 2020, 13, 2695-2696.   | 5.3 | 5         |
| 104 | Spectroscopic thermo-elastic optical coherence tomography for tissue characterization. Biomedical Optics Express, 2022, 13, 1430.  | 2.9 | 5         |
| 105 | Label-free analytic histology of carotid atherosclerosis by mid-infrared optoacoustic microscopy. Photoacoustics, 2022, 26, 100354.  | 7.8 | 5         |
| 106 | Association of neointimal morphology by optical coherence tomography with rupture of neoatherosclerotic plaque very late after coronary stent implantation.. Proceedings of SPIE, 2013, , .          | 0.8 | 4         |
| 107 | Volumetric ultrasound image reconstruction from a single-element forward-looking intracardiac steerable catheter using 3D adaptive normalized convolution. , 2018, , .                               |     | 4         |
| 108 | The Effect of Stent Artefact on Quantification of Plaque Features Using Optical Coherence Tomography (OCT): A Feasibility and Clinical Utility Study. Heart Lung and Circulation, 2020, 29, 874-882. | 0.4 | 4         |

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|-----|---|-----|-----------|
| 109 | Robust intravascular optical coherence elastography driven by acoustic radiation pressure. , 2007, , .  |     | 3         |
| 110 | Algorithm optimization for quantitative analysis of intravascular optical coherence tomography data. , 2009, , .  |     | 3         |
| 111 | Plane wave ultrasound imaging with a broadband photoacoustic source. , 2012, , .  |     | 3         |
| 112 | High frame rate ultrasound displacement vector imaging. , 2014, , .   |     | 3         |
| 113 | Autofluorescence: A New NIR on-Åthe-ÅBlock. JACC: Cardiovascular Imaging, 2016, 9, 1315-1317.   | 5.3 | 3         |
| 114 | Optical Tracking of Superficial Dynamics from an Acoustic Radiation Force-Induced Excitation. Ultrasonic Imaging, 2009, 31, 17-30.  | 2.6 | 2         |
| 115 | Contrast-enhanced intravascular ultrasound 3D reconstruction of a vasa vasorum mimicking model. , 2010, , .   |     | 2         |
| 116 | Development of Tissue Characterization Using Optical Coherence Tomography for Defining Coronary Plaque Morphology and the Vascular Responses After Coronary Stent Implantation. Current Cardiovascular Imaging Reports, 2014, 7, 1. | 0.6 | 2         |
| 117 | Quantifying the effect of subdicing on element vibration in ultrasound transducers. , 2015, , .   |     | 2         |
| 118 | A single-cable PVDF transducer readout IC for intravascular photoacoustic imaging. , 2015, , .  |     | 2         |
| 119 | Photoacoustic imaging of sub-diffraction objects with spectral contrast. Optics Letters, 2017, 42, 191.   | 3.3 | 2         |
| 120 | A Kerfless PVDF Array for Photoacoustic Imaging. , 2018, , .  |     | 2         |
| 121 | Photoacoustic-Enabled RF Ablation Catheters for Lesion Monitoring. , 2018, , .  |     | 2         |
| 122 | Catheter design optimization for practical intravascular photoacoustic imaging (IVPA) of vulnerable plaques. , 2018, , .  |     | 2         |
| 123 | Photoacoustic imaging of coronary arteries. , 2012, , 166-174.  |     | 2         |
| 124 | Fibre optic intravascular measurements of blood flow: A review. Sensors and Actuators A: Physical, 2021, 332, 113162.   | 4.1 | 2         |
| 125 | Optical tracking of superficial dynamics from an acoustic radiation force-induced excitation. Ultrasonic Imaging, 2009, 31, 17-30.  | 2.6 | 2         |
| 126 | Correction of astigmatism in endoscopic OCT for esophageal and coronary imaging. Proceedings of SPIE, 2012, , .   | 0.8 | 1         |



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|-----|---|-----|-----------|
| 127 | Ultrahigh-speed intravascular optical coherence tomography imaging at 3200 frames per second. Proceedings of SPIE, 2013, , .  | 0.8 | 1         |
| 128 | Mutual radiation impedance of circular CMUTs on a cylinder. , 2016, , .   |     | 1         |
| 129 | Frequency-agility of collapse-mode 1-D CMUT array. , 2016, , .  |     | 1         |
| 130 | A new technique for lipid core plaque detection by optical coherence tomography for prevention of peri-procedural myocardial infarction. Medicine (United States), 2017, 96, e7125. | 1.0 | 1         |
| 131 | Photoacoustic imaging of RF ablation lesion formation in an ex-vivo passive beating porcine heart model (Conference Presentation). , 2019, , .                                      |     | 1         |
| 132 | Heartbeat OCT: superfast imaging and elasticity detection. , 2016, , .  |     | 1         |
| 133 | Healthy Vessel Wall Detection Using U-Net in Optical Coherence Tomography. Lecture Notes in Computer Science, 2019, , 184-192.  | 1.3 | 1         |
| 134 | Shadow-free motorized capsule enables accurate beam positioning and sectorized OCT imaging of the esophagus. , 2020, , .  |     | 1         |
| 135 | Intravascular ultrasound chirp imaging. , 2011, , .   |     | 0         |
| 136 | Automatic lipid detection in human coronary atherosclerosis using spectroscopic intravascular photoacoustic imaging. , 2012, , .  |     | 0         |
| 137 | Two contrast detection sequences for bandwidth-limited intravascular ultrasound transducers. , 2012, , .  |     | 0         |
| 138 | Wavelength multiplexing for FD-OCT speckle averaging. Proceedings of SPIE, 2012, , .  | 0.8 | 0         |
| 139 | In-stent neoatherosclerosis: are first generation drug eluting stents different than bare metal stents? An optical coherence tomography study. , 2013, , .                          |     | 0         |
| 140 | Differential phase photoacoustic imaging for high-resolution position sensing. , 2015, , .  |     | 0         |
| 141 | Short pulse laser induced thermo-elastic deformation imaging. Proceedings of SPIE, 2017, , .  | 0.8 | 0         |
| 142 | Notice of Removal: Forward-looking IVUS transducer with front-end ASIC for 3D imaging. , 2017, , .  |     | 0         |
| 143 | Notice of Removal: Near-infrared photoacoustic imaging of atrial RF ablation. , 2017, , .   |     | 0         |
| 144 | Interventional photoacoustics: using light to sound out the path to safe, effective interventions. Physics in Medicine and Biology, 2019, 64, 220401.                               | 3.0 | 0         |

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|-----|---|-----|-----------|
| 145 | The relation between pre-existing plaque burden and strut coverage after DES implantation in familial hypercholesterolemia swine: an OCT study. , 2021, , .           |     | 0         |
| 146 | Capturing the breath of an artificial lung model using endoscopic optical coherence elastography. , 2021, , .   |     | 0         |
| 147 | Differential phase analysis for high frame rate photoacoustic vector flow imaging. , 2021, , .  |     | 0         |
| 148 | Photoacoustic identification of lipid patterns in advanced atherosclerotic plaques. , 2021, , .   |     | 0         |
| 149 | Photoacoustic imaging of coronary arteries: Current status and potential clinical applications. , 2012, , 166-174.  |     | 0         |
| 150 | Megahertz intravascular Doppler optical coherence tomography enables simultaneous morphological and flow pattern imaging. , 2019, , .                                 |     | 0         |
| 151 | Thermo-elastic optical coherence tomography. , 2019, , .  |     | 0         |
| 152 | Heartbeat optical coherence tomography enables accurate in vivo stents imaging: a quantitative image processing study (Conference Presentation). , 2019, , .          |     | 0         |
| 153 | Thermo-elastic optical coherence microscopy. , 2020, , .  |     | 0         |
| 154 | Echoes from Picasso: Explanation of an unusual artefact in optical coherence tomography. Cardiology Journal, 2020, 27, 83-84.   | 1.2 | 0         |
| 155 | Design of a Dual Frequency Probe for Photoacoustic Imaging of the Carotid Artery. , 2020, , .   |     | 0         |
| 156 | Abstract 13819: Is an Adult Familial Hypercholesterolemia, Swine Model Suited to Test Safety and Efficacy of Drug-eluting Coronary Stents?. Circulation, 2020, 142, . | 1.6 | 0         |
| 157 | Spectroscopic analysis through thermoelastic optical coherence microscopy. , 2021, , .  |     | 0         |