Hongki Yoo

List of Publications by Year
in descending order

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88 papers	1,429 citations	361413 20 h-index	361022 35 g-index
89 all docs	89 docs citations	89 times ranked	1624 citing authors

#	Article	IF	Citations
1	Intra-arterial catheter for simultaneous microstructural and molecular imaging in vivo. Nature Medicine, 2011, 17, 1680-1684.	30.7	289
2	Fully Integrated High-Speed Intravascular Optical Coherence Tomography/Near-Infrared Fluorescence Structural/Molecular Imaging In Vivo Using a Clinically Available Near-Infrared Fluorescenceâ€"Emitting Indocyanine Green to Detect Inflamed Lipid-Rich Atheromata in Coronary-Sized Vessels. Circulation: Cardiovascular Interventions, 2014, 7, 560-569.	3.9	83
3	Intracoronary dual-modal optical coherence tomography-near-infrared fluorescence structuralâ€"molecular imaging with a clinical dose of indocyanine green for the assessment of high-risk plaques and stent-associated inflammation in a beating coronary artery. European Heart Journal, 2016, 37, 2833-2844.	2.2	58
4	Intravascular optical imaging of high-risk plaques in vivo by targeting macrophage mannose receptors. Scientific Reports, 2016, 6, 22608.	3.3	48
5	Comprehensive imaging of gastroesophageal biopsy samples by spectrally encoded confocal microscopy. Gastrointestinal Endoscopy, 2010, 71, 35-43.	1.0	46
6	Chromatic confocal microscopy with a novel wavelength detection method using transmittance. Optics Express, 2013, 21, 6286.	3.4	46
7	Endoscopic micro-optical coherence tomography with extended depth of focus using a binary phase spatial filter. Optics Letters, 2017, 42, 379.	3.3	44
8	Measurement and restoration of the point spread function of fluorescence confocal microscopy. Journal of Microscopy, 2006, 221, 172-176.	1.8	42
9	Automated detection of vessel lumen and stent struts in intravascular optical coherence tomography to evaluate stent apposition and neointimal coverage. Medical Physics, 2016, 43, 1662-1675.	3.0	40
10	Design and fabrication of an optical probe with a phase filter for extended depth of focus. Optics Express, 2016, 24, 1037.	3.4	38
11	Reflectance confocal microscopy for the diagnosis of eosinophilic esophagitis: a pilot study conducted on biopsy specimens. Gastrointestinal Endoscopy, 2011, 74, 992-1000.	1.0	37
12	Fiber-optic raster scanning two-photon endomicroscope using a tubular piezoelectric actuator. Journal of Biomedical Optics, 2014, 19, 066010.	2.6	33
13	Comprehensive intravascular imaging of atherosclerotic plaque in vivo using optical coherence tomography and fluorescence lifetime imaging. Scientific Reports, 2018, 8, 14561.	3.3	33
14	Stress-associated neurobiological activity is linked with acute plaque instability via enhanced macrophage activity: a prospective serial 18F-FDG-PET/CT imaging assessment. European Heart Journal, 2021, 42, 1883-1895.	2.2	33
15	Spectroscopic optical coherence tomography: A review of concepts and biomedical applications. Applied Spectroscopy Reviews, 2018, 53, 91-111.	6.7	26
16	Macrophage targeted theranostic strategy for accurate detection and rapid stabilization of the inflamed high-risk plaque. Theranostics, 2021, 11, 8874-8893.	10.0	26
17	High-speed 3-D measurement with a large field of view based on direct-view confocal microscope with an electrically tunable lens. Optics Express, 2016, 24, 3806.	3.4	24
18	Multispectral analog-mean-delay fluorescence lifetime imaging combined with optical coherence tomography. Biomedical Optics Express, 2018, 9, 1930.	2.9	24

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19	Therapeutic Effects of Targeted PPARÉ£ Activation on Inflamed High-Risk Plaques Assessed by Serial Optical Imaging In Vivo. Theranostics, 2018, 8, 45-60.	10.0	23
20	Real-time visualization of two-photon fluorescence lifetime imaging microscopy using a wavelength-tunable femtosecond pulsed laser. Biomedical Optics Express, 2018, 9, 3449.	2.9	22
21	Dual-detection confocal fluorescence microscopy: fluorescence axial imaging without axial scanning. Optics Express, 2013, 21, 17839.	3.4	21
22	Three-dimensional confocal reflectance microscopy for surface metrology. Measurement Science and Technology, 2021, 32, 102002.	2.6	20
23	High-speed color three-dimensional measurement based on parallel confocal detection with a focus tunable lens. Optics Express, 2019, 27, 28466.	3.4	20
24	Compensation of motion artifacts in catheter-based optical frequency domain imaging. Optics Express, 2010, 18, 11418.	3.4	17
25	Comprehensive volumetric confocal microscopy with adaptive focusing. Biomedical Optics Express, 2011, 2, 1412.	2.9	17
26	Characterization of lipid-rich plaques using spectroscopic optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 075004.	2.6	16
27	In vivo imaging of reactive oxygen species (ROS)-producing pro-inflammatory macrophages in murine carotid atheromas using a CD44-targetable and ROS-responsive nanosensor. Journal of Industrial and Engineering Chemistry, 2020, 92, 158-166.	5.8	16
28	Coronary Stent Fracture Complicated Multiple Aneurysms Confirmed by 3-Dimensional Reconstruction of Intravascular-Optical Coherence Tomography in a Patient Treated With Open-Cell Designed Drug-Eluting Stent. Circulation, 2014, 129, e24-7.	1.6	15
29	Large-area thickness measurement of transparent multi-layer films based on laser confocal reflection sensor. Measurement: Journal of the International Measurement Confederation, 2020, 153, 107390.	5.0	15
30	Rapid tissue histology using multichannel confocal fluorescence microscopy with focus tracking. Quantitative Imaging in Medicine and Surgery, 2018, 8, 884-893.	2.0	14
31	High speed 3D surface profile without axial scanning: dual-detection confocal reflectance microscopy. Measurement Science and Technology, 2014, 25, 125403.	2.6	13
32	Concurrent Carotid Inflammation in Acute Coronary Syndrome as Assessed by 18F-FDG PET/CT: A Possible Mechanistic Link for Ischemic Stroke. Journal of Stroke and Cerebrovascular Diseases, 2015, 24, 2547-2554.	1.6	13
33	Emulating endothelial dysfunction by implementing an early atherosclerotic microenvironment within a microfluidic chip. Lab on A Chip, 2019, 19, 3664-3677.	6.0	13
34	Targeted theranostic photoactivation on atherosclerosis. Journal of Nanobiotechnology, 2021, 19, 338.	9.1	13
35	Removal of back-reflection noise at ultrathin imaging probes by the single-core illumination and wide-field detection. Scientific Reports, 2017, 7, 6524.	3.3	12
36	Compensation of motion artifacts in intracoronary optical frequency domain imaging and optical coherence tomography. International Journal of Cardiovascular Imaging, 2012, 28, 1299-1304.	1.5	10

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37	Flexible endoscopic micro-optical coherence tomography for three-dimensional imaging of the arterial microstructure. Scientific Reports, 2020, 10, 9248.	3.3	10
38	Evaluation of optical reflectance techniques for imaging of alveolar structure. Journal of Biomedical Optics, 2012, 17, 071303.	2.6	9
39	Compact fiber optic dual-detection confocal displacement sensor. Applied Optics, 2016, 55, 7631.	2.1	9
40	Multipoint scanning dualâ€detection confocal microscopy for fast 3D volumetric measurement. Journal of Microscopy, 2018, 270, 200-209.	1.8	8
41	Annular-beam dual-detection confocal reflectance microscopy for high-speed three-dimensional surface profiling with an extended volume. Measurement Science and Technology, 2020, 31, 045403.	2.6	8
42	Robust autofocusing for scanning electron microscopy based on a dual deep learning network. Scientific Reports, 2021, 11, 20933.	3.3	8
43	Comprehensive Assessment of High-Risk Plaques by Dual-Modal Imaging Catheter in Coronary Artery. JACC Basic To Translational Science, 2021, 6, 948-960.	4.1	8
44	Diagnostic fiber-based optical imaging catheters. Biomedical Engineering Letters, 2014, 4, 239-249.	4.1	7
45	Three-Dimensional Intravascular Optical Coherence Tomography Rendering Assessment of Spontaneous Coronary Artery Dissection Concomitant With Left Main Ostial Critical Stenosis. JACC: Cardiovascular Interventions, 2014, 7, e57-e59.	2.9	7
46	High-speed line-scan confocal Raman microscope with enhanced diffraction efficiency. Measurement Science and Technology, 2020, 31, 025203.	2.6	7
47	Astigmatism-corrected endoscopic imaging probe for optical coherence tomography using soft lithography. Optics Letters, 2020, 45, 4867.	3.3	7
48	Intravascular Optical Molecular Imaging of aÂMacrophage Subset Within Intraplaque Hemorrhages. JACC: Cardiovascular Imaging, 2018, 11, 371-372.	5.3	6
49	Label-free multimodal microscopy using a single light source and detector for biological imaging. Optics Letters, 2021, 46, 892.	3.3	6
50	Utilization potential of intraluminal optical coherence tomography for the Eustachian tube. Scientific Reports, 2021, 11, 6219.	3.3	6
51	High-speed time-resolved laser-scanning microscopy using the line-to-pixel referencing method. Applied Optics, 2016, 55, 9033.	2.1	6
52	Design and analysis of a cross-type structured-illumination confocal microscope for high speed and high resolution. Measurement Science and Technology, 2012, 23, 105403.	2.6	5
53	Multimodal microscopy for the simultaneous visualization of five different imaging modalities using a single light source. Biomedical Optics Express, 2021, 12, 5452.	2.9	5
54	Optical frequency domain imaging system and catheters for volumetric imaging of the human esophagus. Photonics Letters of Poland, 2011, 3, 144-146.	0.4	5

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55	Method for improving the speed and pattern quality of a DMD maskless lithography system using a pulse exposure method. Optics Express, 2022, 30, 22487.	3.4	5
56	A near-infrared confocal scanner. Measurement Science and Technology, 2014, 25, 065403.	2.6	4
57	A bi-directional assessment of spontaneous coronary artery dissection by three-dimensional flythrough rendering of optical coherence tomography images. European Heart Journal, 2015, 36, 1022-1022.	2.2	4
58	Multimodal confocal hyperspectral imaging microscopy with wavelength sweeping source. Measurement Science and Technology, 2015, 26, 025701.	2.6	4
59	Design and performance evaluation of reflection confocal microscopy using acousto-optical deflector and slit detector. , 2004, 5324, 235.		3
60	Method for the improvement of lateral resolution in stimulated emission depletion microscopy using a pupil filter. Measurement Science and Technology, 2007, 18, N61-N64.	2.6	3
61	Lateral image reconstruction of optical coherence tomography using oneâ€dimensional deep deconvolution network. Lasers in Surgery and Medicine, 2022, 54, 895-906.	2.1	3
62	Lateral Resolution Enhancement in Confocal Self-interference Microscopy with Commercial Calcite Plate. Journal of the Optical Society of Korea, 2005, 9, 32-35.	0.6	2
63	S1591: Barrett's Esophagus Screening Using Balloon-Based Optical Frequency Domain Imaging: A Comparison With Endoscopy. Gastrointestinal Endoscopy, 2010, 71, AB202.	1.0	2
64	Design and Development of Nonlinear Optical Microscope System: Simple Implementation with epi-Illumination Platform. MATEC Web of Conferences, 2015, 32, 04010.	0.2	2
65	Rapid histologic diagnosis using quick fluorescence staining and tissue confocal microscopy. Microscopy Research and Technique, 2019, 82, 892-897.	2.2	2
66	Long Journey of Intravascular Imaging. JACC: Cardiovascular Imaging, 2021, 14, 1843-1845.	5.3	2
67	Error analysis and tolerance allocation for confocal scanning microscopy using the Monte Carlo method. , 2004, , .		1
68	Measurement of point-spread function (PSF) for confocal fluorescence microscopy. , 2005, 5878, 368.		1
69	Aberration Corrected Beam Scanning Stimulated Emission Depletion Microscopy. International Journal of Optomechatronics, 2008, 2, 401-412.	6.6	1
70	Reflectance microscopy techniques for 3D imaging of the alveolar structure. Head & Neck Oncology, 2010, 2, .	2.3	1
71	Endoscopic focal modulation microscopy. Journal of Microscopy, 2013, 250, 116-121.	1.8	1
72	Announcing the 2021 Measurement Science and Technology Outstanding Paper Awards. Measurement Science and Technology, 2022, 33, 070201.	2.6	1

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73	Measurement of Sub-micrometer Features Based on The Topographic Contrast Using Reflection Confocal Microscopy. Journal of the Optical Society of Korea, 2005, 9, 26-31.	0.6	0
74	Effects of a pupil filter on stimulated emission depletion microscopy. , 2006, , .		0
75	Simultaneous imaging of confocal fluorescence and raman spectrum. , 2007, , .		0
76	Dual detection confocal fluorescence microscopy: depth imaging without depth scanning. , 2013, , .		0
77	Dual-detection confocal microscopy: high-speed surface profiling without depth scanning. , 2016, , .		0
78	OUP accepted manuscript. European Heart Journal, 2021, , .	2.2	0
79	Color three-dimensional imaging based on patterned illumination using a negative pinhole array. Optics Express, 2021, 29, 6509.	3.4	0
80	Effects of substrate stiffness on phenotype of bovine aortic endothelial cells (BAECs)(PS2: Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Biomechanics Emerging Science and Technology in Biomechanics, 2015, 2015.8, 248.	0.0	0
81	Inflammatory coronary ectasia identified by three-dimensional volume rendering of 18F-Fluorodeoxyglucose PET/CT. EuroIntervention, 2017, 13, e227-e227.	3.2	0
82	AB0015â€…The effect of rare coding variants on response of tnf inhibitors treatment in rheumatoid arthritis. , 2018, , .		0
83	High-resolution Multispectral Fluorescence Lifetime Imaging Microscopy for Characterization of Atherosclerosis Plaque. , 2019, , .		0
84	Real-time visualization of structural and biochemical information using single laser source. , 2019, , .		0
85	Combined fluorescence lifetime imaging-optical coherence tomography for in vivo label-free assessment of high-risk atherosclerotic plaque. , 2019, , .		0
86	Abstract 14935: Targeted Optical Molecular Imaging of Atheroma Calcification Using Novel Aldendronate-based Probe. Circulation, 2020, 142, .	1.6	0
87	Abstract 15508: Random Forest Classifier-incoporated Intravascular Optical Coherence Tomography-fluorescence Lifetime Imaging (oct-flim) Provides Automated Characterization of Key Biochemical Components of Coronary Atherosclerotic Plaques. Circulation, 2020, 142, .	1.6	0
88	Abstract 11653: Intravascular Targeted Photoactivation Guided by Optical Coherence Tomography-Near Infrared Fluorescence (OCT-NIRF) Imaging Promotes Stabilization of Atherosclerotic Plaques. Circulation, 2021, 144, .	1.6	0