Jeehyun Kim

List of Publications by Year
in descending order

131	2,440	236925 25	243625 44
papers	citations	h-index	g-index

133	133	133	2380
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection of magnetic nanoparticles in tissue using magneto-motive ultrasound. Nanotechnology, 2006, 17, 4183-4190.	2.6	178
2	Auâ€“Cu_{2â€“x}Se Heterodimer Nanoparticles with Broad Localized Surface Plasmon Resonance as Contrast Agents for Deep Tissue Imaging. Nano Letters, 2013, 13, 4333-4339.	9.1	176
3	Handheld Optical Coherence Tomography Scanner for Primary Care Diagnostics. IEEE Transactions on Biomedical Engineering, 2011, 58, 741-744.	4.2	130
4	Noninvasive in vivo optical detection of biofilm in the human middle ear. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9529-9534.	7.1	109
5	Optical coherence tomography speckle reduction by a partially spatially coherent source. Journal of Biomedical Optics, 2005, 10, 064034.	2.6	79
6	Full-range k-domain linearization in spectral-domain optical coherence tomography. Applied Optics, 2011, 50, 1158.	2.1	63
7	Detection of vulnerable plaque in a murine model of atherosclerosis with optical coherence tomography. Catheterization and Cardiovascular Interventions, 2006, 67, 915-923.	1.7	62
8	Optical Sensing Method for Screening Disease in Melon Seeds by Using Optical Coherence Tomography. Sensors, 2011, 11, 9467-9477.	3.8	61
9	Optical coherence tomography for advanced screening in the primary care office. Journal of Biophotonics, 2014, 7, 525-533.	2.3	61
10	Anti-EGFR antibody conjugated thiol chitosan-layered gold nanoshells for dual-modal imaging-guided cancer combination therapy. Journal of Controlled Release, 2019, 311-312, 26-42.	9.9	55
11	In Vivo Near Infrared Virtual Intraoperative Surgical Photoacoustic Optical Coherence Tomography. Scientific Reports, 2016, 6, 35176.	3.3	51
12	Application of optical coherence tomography to detect Cucumber green mottle mosaic virus (CGMMV) infected cucumber seed. Horticulture Environment and Biotechnology, 2012, 53, 428-433.	2.1	48
13	In vivo imaging of middle-ear and inner-ear microstructures of a mouse guided by SD-OCT combined with a surgical microscope. Optics Express, 2014, 22, 8985.	3.4	46
14	Fast Industrial Inspection of Optical Thin Film Using Optical Coherence Tomography. Sensors, 2016, 16, 1598.	3.8	42
15	Non-Destructive Inspection Methods for LEDs Using Real-Time Displaying Optical Coherence Tomography. Sensors, 2012, 12, 10395-10406.	3.8	39
16	Optical Coherence Tomography for the Diagnosis and Evaluation of Human Otitis Media. Journal of Korean Medical Science, 2015, 30, 328.	2.5	37
17	In Vivo study of a blended hydrogel composed of pluronic F-127-alginate-hyaluronic acid for its cell injection application. Tissue Engineering and Regenerative Medicine, 2012, 9, 1-9.	3.7	35
18	The Application of Optical Coherence Tomography in the Diagnosis of Marssonina Blotch in Apple Leaves. Journal of the Optical Society of Korea, 2012, 16, 133-140.	0.6	35

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19	Ultra-Fast Displaying Spectral Domain Optical Doppler Tomography System Using a Graphics Processing Unit. Sensors, 2012, 12, 6920-6929.	3.8	34
20	Bio-Photonic Detection and Quantitative Evaluation Method for the Progression of Dental Caries Using Optical Frequency-Domain Imaging Method. Sensors, 2016, 16, 2076.	3.8	33
21	Quantitative assessment of touch-screen panel by nondestructive inspection with three-dimensional real-time display optical coherence tomography. Optics and Lasers in Engineering, 2015, 68, 50-57.	3.8	32
22	In VivoMonitoring on Growth and Spread of Gray Leaf Spot Disease inCapsicum annuumLeaf Using Spectral Domain Optical Coherence Tomography. Journal of Spectroscopy, 2016, 2016, 1-6.	1.3	29
23	In vivo virtual intraoperative surgical photoacoustic microscopy. Applied Physics Letters, 2013, 103, 203702.	3.3	27
24	Optical coherence tomography-integrated, wearable (backpack-type), compact diagnostic imaging modality for in situ leaf quality assessment. Applied Optics, 2017, 56, D108.	2.1	27
25	Depth enhancement in spectral domain optical coherence tomography using bidirectional imaging modality with a single spectrometer. Journal of Biomedical Optics, 2016, 21, 076005.	2.6	25
26	Industrial resin inspection for display production using automated fluid-inspection based on multimodal optical detection techniques. Optics and Lasers in Engineering, 2017, 96, 75-82.	3.8	24
27	Clinical Utility of Intraoperative Tympanomastoidectomy Assessment Using a Surgical Microscope Integrated with an Optical Coherence Tomography. Scientific Reports, 2018, 8, 17432.	3.3	24
28	Use of a Blood Substitute to Determine Instantaneous Murine Right Ventricular Thickening With Optical Coherence Tomography. Circulation, 2002, 105, 1843-1849.	1.6	23
29	Hemoglobin contrast in magnetomotive optical Doppler tomography. Optics Letters, 2006, 31, 778.	3.3	23
30	Objective-free optical-resolution photoacoustic microscopy. Journal of Biomedical Optics, 2012, 18, 010501.	2.6	23
31	Non-Destructive Identification of Weld-Boundary and Porosity Formation During Laser Transmission Welding by Using Optical Coherence Tomography. IEEE Access, 2018, 6, 76768-76775.	4.2	23
32	Biocompatibility evaluation of bioprinted decellularized collagen sheet implanted in vivo cornea using sweptâ€source optical coherence tomography. Journal of Biophotonics, 2019, 12, e201900098.	2.3	23
33	Optical Inspection and Morphological Analysis of Diospyros kaki Plant Leaves for the Detection of Circular Leaf Spot Disease. Sensors, 2016, 16, 1282.	3.8	22
34	Fully waterproof two-axis galvanometer scanner for enhanced wide-field optical-resolution photoacoustic microscopy. Optics Letters, 2020, 45, 865.	3.3	22
35	Wide-field optical coherence microscopy of the mouse brain slice. Optics Letters, 2015, 40, 4420.	3.3	21
36	Real-time Near-infrared Virtual Intraoperative Surgical Photoacoustic Microscopy. Photoacoustics, 2015, 3, 100-106.	7.8	21

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37	Optical sensing method to analyze germination rate of Capsicum annum seeds treated with growth-promoting chemical compounds using optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 091502.	2.6	21
38	Imaging nanoparticle flow using magneto-motive optical Doppler tomography. Nanotechnology, 2007, 18, 035504.	2.6	20
39	Optically deviated focusing method based high-speed SD-OCT for in vivo retinal clinical applications. Optical Review, 2016, 23, 307-315.	2.0	20
40	High Speed SD-OCT System Using GPU Accelerated Mode for in vivo Human Eye Imaging. Journal of the Optical Society of Korea, 2013, 17, 68-72.	0.6	20
41	Development of Real-Time Dual-Display Handheld and Bench-Top Hybrid-Mode SD-OCTs. Sensors, 2014, 14, 2171-2181.	3.8	19
42	Biophotonic approach for the characterization of initial bitter-rot progression on apple specimens using optical coherence tomography assessments. Scientific Reports, 2018, 8, 15816.	3.3	19
43	3-Dimensional characterization of cortical bone microdamage following placement of orthodontic microimplants using Optical Coherence Tomography. Scientific Reports, 2019, 9, 3242.	3.3	19
44	Feasibility study on photoacoustic guidance for high-intensity focused ultrasound-induced hemostasis. Journal of Biomedical Optics, 2014, 19, 105010.	2.6	17
45	Stimulated penetrating keratoplasty using real-time virtual intraoperative surgical optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 1.	2.6	17
46	Non-Destructive Analysis of the Internal Anatomical Structures of Mosquito Specimens Using Optical Coherence Tomography. Sensors, 2017, 17, 1897.	3.8	16
47	Magnetomotive laser speckle imaging. Journal of Biomedical Optics, 2010, 15, 011110.	2.6	15
48	In vivoimaging of melanoma-implanted magnetic nanoparticles using contrast-enhanced magneto-motive optical Doppler tomography. Journal of Biomedical Optics, 2016, 21, 064001.	2.6	15
49	Optical assessment of the in vivo tympanic membrane status using a handheld optical coherence tomography-based otoscope. Acta Oto-Laryngologica, 2018, 138, 367-374.	0.9	15
50	In vivo 3D imaging of the human tympanic membrane using a wide-field diagonal-scanning optical coherence tomography probe. Applied Optics, 2017, 56, D115.	2.1	15
51	Quantitative monitoring of laser-treated engineered skin using optical coherence tomography. Biomedical Optics Express, 2016, 7, 1030.	2.9	14
52	Ultrahigh-Speed Spectral-Domain Optical Coherence Tomography up to 1-MHz A-Scan Rate Using Spaceâ€“Time-Division Multiplexing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	14
53	Structural Analysis of Polymer Composites Using Spectral Domain Optical Coherence Tomography. Sensors, 2017, 17, 1155.	3.8	13
54	Real-Time Retinal Imaging with a Parallel OCT Using a CMOS Smart Array Detector. Journal of the Korean Physical Society, 2007, 51, 1787-1791.	0.7	13

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55	In vivo observation of metamorphosis of Plodia interpunctella HÃ¼bner using threeâ€dimensional optical coherence tomography. Entomological Research, 2017, 47, 256-262.	1.1	12
56	Dual-path handheld system for cornea and retina imaging using optical coherence tomography. Optical Review, 2017, 24, 219-225.	2.0	12
57	Dynamic Compensation of Path Length Difference in Optical Coherence Tomography by an Automatic Temperature Control System of Optical Fiber. IEEE Access, 2020, 8, 77501-77510.	4.2	12
58	On-Field In situ Inspection for Marssonina Coronaria Infected Apple Blotch Based on Non-Invasive Bio-Photonic Imaging Module. IEEE Access, 2019, 7, 148684-148691.	4.2	11
59	Classification of human gingival sulcus using swept-source optical coherence tomography: In vivo imaging. Infrared Physics and Technology, 2019, 98, 155-160.	2.9	11
60	In Situ Characterization of Micro-Vibration in Natural Latex Membrane Resembling Tympanic Membrane Functionally Using Optical Doppler Tomography. Sensors, 2020, 20, 64.	3.8	11
61	Non-Invasive Optical Coherence Tomography Data-Based Quantitative Algorithm for the Assessment of Residual Adhesive on Bracket-Removed Dental Surface. Sensors, 2021, 21, 4670.	3.8	11
62	High-resolution, dual-depth spectral-domain optical coherence tomography with interlaced detection for whole-eye imaging. Applied Optics, 2016, 55, 7212.	2.1	10
63	Assessment of the Inner Surface Roughness of 3D Printed Dental Crowns via Optical Coherence Tomography Using a Roughness Quantification Algorithm. IEEE Access, 2020, 8, 133854-133864.	4.2	10
64	Evaluation of the usefulness of three-dimensional optical coherence tomography in a guinea pig model of endolymphatic hydrops induced by surgical obliteration of the endolymphatic duct. Journal of Biomedical Optics, 2015, 20, 036009.	2.6	9
65	Two-axis polydimethylsiloxane-based electromagnetic microelectromechanical system scanning mirror for optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 106001.	2.6	9
66	Quality assessment of the optical thin films using line field spectral domain optical coherence tomography. Optics and Lasers in Engineering, 2018, 110, 47-53.	3.8	9
67	An Averaged Intensity Difference Detection Algorithm for Identification of Human Gingival Sulcus in Optical Coherence Tomography Images. IEEE Access, 2019, 7, 73076-73084.	4.2	9
68	Optical signal intensity incorporated rice seed cultivar classification using optical coherence tomography. Computers and Electronics in Agriculture, 2022, 198, 107014.	7.7	9
69	Lateral resolution enhancement using programmable phase modulator in optical coherence tomography. Bio-Medical Materials and Engineering, 2015, 26, S1465-S1471.	0.6	8
70	Bio-photonic detection method for morphological analysis of anthracnose disease and physiological disorders of Diospyros kaki. Optical Review, 2017, 24, 199-205.	2.0	8
71	Assessment of cortical bone microdamage following insertion of microimplants using optical coherence tomography: a preliminary study. Journal of Zhejiang University: Science B, 2018, 19, 818-828.	2.8	8
72	Non-Invasive Morphological Characterization of Rice Leaf Bulliform and Aerenchyma Cellular Regions Using Low Coherence Interferometry. Applied Sciences (Switzerland), 2019, 9, 2104.	2.5	8

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73	Analysis of Enamel Loss by Prophylaxis and Etching Treatment in Human Tooth Using Optical Coherence Tomography: An In Vitro Study. Journal of Healthcare Engineering, 2019, 2019, 1-9.	1.9	8
74	Non-Ionized, High-Resolution Measurement of Internal and Marginal Discrepancies of Dental Prosthesis Using Optical Coherence Tomography. IEEE Access, 2019, 7, 6209-6218.	4.2	8
75	Identification of multi-dimensional thread geometry using depth-resolved swept-source optical coherence tomography for assessment of dental implant fabrication. Optics and Lasers in Engineering, 2020, 127, 105951.	3.8	8
76	Comparison of a MEMS-Based Handheld OCT Scanner With a Commercial Desktop OCT System for Retinal Evaluation. Translational Vision Science and Technology, 2014, 3, 10.	2.2	8
77	Pulsed magneto-motive optical coherence tomography for remote cellular imaging. Optics Letters, 2012, 37, 3714.	3.3	7
78	In Vivo Non-Destructive Monitoring of Capsicum Annuum Seed Growth with Diverse NaCl Concentrations Using Optical Detection Technique. Sensors, 2017, 17, 2887.	3.8	7
79	Free space broad-bandwidth tunable laser diode based on Littman configuration for 3D profile measurement. Optics and Laser Technology, 2018, 101, 462-467.	4.6	7
80	Non-Destructive Classification of Diversely Stained Capsicum annuum Seed Specimens of Different Cultivars Using Near-Infrared Imaging Based Optical Intensity Detection. Sensors, 2018, 18, 2500.	3.8	7
81	Optical Interferometric Fringe Pattern-Incorporated Spectrum Calibration Technique for Enhanced Sensitivity of Spectral Domain Optical Coherence Tomography. Sensors, 2020, 20, 2067.	3.8	7
82	Serial optical coherence microscopy for label-free volumetric histopathology. Scientific Reports, 2020, 10, 6711.	3.3	7
83	Integrated Quad-Scanner Strategy-Based Optical Coherence Tomography for the Whole-Directional Volumetric Imaging of a Sample. Sensors, 2021, 21, 1305.	3.8	7
84	<i>In Vivo</i> Vibration Measurement of Middle Ear Structure Using Doppler Optical Coherence Tomography: Preliminary Study. Clinical and Experimental Otorhinolaryngology, 2019, 12, 40-49.	2.1	7
85	Full-Field Optical Coherence Tomography Using Galvo Filter-Based Wavelength Swept Laser. Sensors, 2016, 16, 1933.	3.8	6
86	In Vivo Fascicle Bifurcation Imaging of Rat Sciatic Nerve Using Swept-Source Optical Coherence Tomography. IEEE Access, 2018, 6, 7713-7718.	4.2	6
87	Defect inspection of actuator lenses using swept-source optical coherence tomography. Optical Review, 2018, 25, 403-409.	2.0	6
88	A preliminary study of post-progressive nail-art effects on in vivo nail plate using optical coherence tomography-based intensity profiling assessment. Scientific Reports, 2021, 11, 666.	3.3	6
89	Dynamic Fringe Pattern Generation Using an Electrically Tunable Liquid Crystal Fabry-Perot Cell for a Miniaturized Optical 3-D Surface Scanning Profilometer. Molecular Crystals and Liquid Crystals, 2010, 526, 28-37.	0.9	5
90	Phase correction using programmable phase modulator (PPM) in optical coherence tomography. Biomedical Engineering Letters, 2014, 4, 64-72.	4.1	5

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91	Numerical-Sampling-Functionalized Real-Time Index Regulation for Direct k-Domain Calibration in Spectral Domain Optical Coherence Tomography. Electronics (Switzerland), 2018, 7, 182.	3.1	5
92	Multi-directional Morphological Assessment of Single Bacterial Colonies Through Non-invasive Optical Imaging. Annals of Biomedical Engineering, 2020, 48, 3014-3023.	2.5	5
93	Micron-scale human enamel layer characterization after orthodontic bracket debonding by intensity-based layer segmentation in optical coherence tomography images. Scientific Reports, 2021, 11, 10831.	3.3	5
94	Virtual intraoperative optical coherence tomography angiography integrated surgical microscope for simultaneous imaging of morphological structures and vascular maps in vivo. Optics and Lasers in Engineering, 2022, 151, 106943.	3.8	5
95	Vision-Inspection-Synchronized Dual Optical Coherence Tomography for High-Resolution Real-Time Multidimensional Defect Tracking in Optical Thin Film Industry. IEEE Access, 2020, 8, 190700-190709.	4.2	4
96	Doppler Optical Coherence Tomography for Otology Applications: From Phantom Simulation to In Vivo Experiment. Applied Sciences (Switzerland), 2021, 11, 5711.	2.5	4
97	Waterproof Galvanometer Scanner-Based Handheld Photoacoustic Microscopy Probe for Wide-Field Vasculature Imaging In Vivo. Photonics, 2021, 8, 305.	2.0	4
98	Handheld-probe-based optical Doppler tomography for blood flow imaging. Infrared Physics and Technology, 2018, 95, 183-188.	2.9	3
99	Multiple Wavelength Optical Coherence Tomography Assessments for Enhanced Ex Vivo Intra-Cochlear Microstructural Visualization. Electronics (Switzerland), 2018, 7, 133.	3.1	3
100	Functional assessment of moisture influenced cadaveric tympanic membrane using phase shiftâ€resolved optical Doppler vibrography. Journal of Biophotonics, 2020, 13, e201900202.	2.3	3
101	Intra-Operative Optical Coherence Imaging of In-Vivo Chronic Otitis Media Followed by Post-Operative Audiogram Assessments. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	2.9	3
102	Development of raspberry Pi single-board computer architecture based ultra-compact optical coherence tomography. Optics and Lasers in Engineering, 2022, 148, 106754.	3.8	3
103	Dental diagnosis for inlay restoration using an intraoral optical coherence tomography system: A case report. Journal of Prosthodontic Research, 2023, 67, 305-310.	2.8	3
104	Methods to enhance laser speckle imaging of high-flow and low-flow vasculature. , 2009, 2009, 4073-6.		2
105	A 2-axis Polydimethylsiloxane (PDMS) based electromagnetic MEMS scanning mirror for optical coherence tomography. , 2016, , .		2
106	Development of a Handheld Line Information Reader and Generator for Efficient Management of Optical Communication Lines. Sensors, 2017, 17, 1950.	3.8	2
107	Measurement of Vibrating Tympanic Membrane in an In Vivo Mouse Model Using Doppler Optical Coherence Tomography. Journal of Imaging, 2019, 5, 74.	3.0	2
108	Non-Invasive Optical Screening of Streptococcus Pneumonia Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. IEEE Photonics Journal, 2020, 12, 1-11.	2.0	2

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109	Fabrication of Dental Crown by Optical Coherence Tomography: A Pilot Study. IEEE Access, 2020, 8, 144969-144975.	4.2	2
110	Wavelength-Filter Based Spectral Calibrated Wave number - Linearization in 1.3 mm Spectral Domain Optical Coherence. International Journal of Engineering and Advanced Technology, 2013, 3, 336-340.	0.3	2
111	Localized vibrations incorporated thickness assessment of cadaveric tympanic membranes using Doppler-optical coherence tomography. Optics and Laser Technology, 2022, 148, 107778.	4.6	2
112	Morphological analysis of the growth stages of in-vivo mouse hair follicles by using optical coherence tomography. Journal of the Korean Physical Society, 2016, 69, 749-755.	0.7	1
113	Swept source optical coherence tomography for in vivo growth monitoring of capsicum annuum seeds treated with different NaCl concentrations. , 2017, , .		1
114	Identification of organs inside hard tick body using spectral-domain optical coherence tomography. Infrared Physics and Technology, 2021, 114, 103611.	2.9	1
115	In Vivo Rodent Cervicothoracic Vasculature Imaging Using Photoacoustic Computed Tomography. Photonics, 2021, 8, 312.	2.0	1
116	Virtual Intraoperative surgical photoacoustic microscopy. , 2015, , .		1
117	Frequency swept laser at 1300nm using a simple rotating slit. , 2008, , .		0
118	Intraoperative surgical photoacoustic microscopy (IS-PAM) using augmented reality. , 2014, , .		0
119	Virtual intraoperative surgical photoacoustic microscopy. , 2015, , .		0
120	Simulated microsurgery monitoring using intraoperative multimodal surgical microscopy. , 2016, , .		0
121	Dual illumination for cornea and retina imaging using spectral domain optical coherence tomography. , 2017, , .		0
122	Application of wearable optical coherence tomography (OCT) and loop-mediated isothermal amplification (LAMP) techniques for in situ real-time field inspection of apple Marssonina blotch disease. Proceedings of SPIE, 2017, , .	0.8	0
123	Optical thin film inspection using parallel spectral domain optical coherence tomography. , 2017, , .		0
124	Optical Imaging Technique based Non-Destructive Volumetric Analysis for Biological and Industrial Materials. , 2017, , .		0
125	Optical fiber line monitoring using a handheld line information reader in optical communications. , 2017, , .		0
126	Enamel loss by prophylaxis and etching treatment in human tooth analyzed using optical coherence tomography- An in vitro study. , 2018, , .		0

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127	OCT for non-destructive examination of the internal biological structures of mosquito specimen. , 2018, , .		0
128	High-Speed SD-OCT for Ultra Wide-field Human Retinal Three Dimensions Imaging using GPU. Journal of Biomedical Engineering Research, 2013, 34, 135-140.	0.1	0
129	Micro Vibration Measurement in a Latex Sample Mimicking the Tympanic Membrane Using Micro Vibro Tomography. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2019, 30, 23-27.	0.3	0
130	Non-destructive morphological observation of anatomical growth process in Haemaphysalis Longicornis tick specimens using optical coherence tomography. Technology and Health Care, 2022, 30, 61-70.	1.2	0
131	Space-time division multiplexing-based superfast spectral-domain optical coherence tomography up to 1 MHz A-scan rate. , 2022, , .		0