

Jeehyun Kim

List of Publications by Year in descending order

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131
papers

2,440
citations

236925

25
h-index

243625

44
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133
all docs

133
docs citations

133
times ranked

2380
citing authors

#	ARTICLE	IF	CITATIONS
1	Dental diagnosis for inlay restoration using an intraoral optical coherence tomography system: A case report. <i>Journal of Prosthodontic Research</i> , 2023, 67, 305-310.	2.8	3
2	Development of raspberry Pi single-board computer architecture based ultra-compact optical coherence tomography. <i>Optics and Lasers in Engineering</i> , 2022, 148, 106754.	3.8	3
3	Localized vibrations incorporated thickness assessment of cadaveric tympanic membranes using Doppler-optical coherence tomography. <i>Optics and Laser Technology</i> , 2022, 148, 107778.	4.6	2
4	Virtual intraoperative optical coherence tomography angiography integrated surgical microscope for simultaneous imaging of morphological structures and vascular maps in vivo. <i>Optics and Lasers in Engineering</i> , 2022, 151, 106943.	3.8	5
5	Non-destructive morphological observation of anatomical growth process in <i>Haemaphysalis Longicornis</i> tick specimens using optical coherence tomography. <i>Technology and Health Care</i> , 2022, 30, 61-70.	1.2	0
6	Space-time division multiplexing-based superfast spectral-domain optical coherence tomography up to 1 MHz A-scan rate. , 2022, , .		0
7	Optical signal intensity incorporated rice seed cultivar classification using optical coherence tomography. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107014.	7.7	9
8	Intra-Operative Optical Coherence Imaging of <i>In-Vivo</i> Chronic Otitis Media Followed by Post-Operative Audiogram Assessments. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-7.	2.9	3
9	A preliminary study of post-progressive nail-art effects on in vivo nail plate using optical coherence tomography-based intensity profiling assessment. <i>Scientific Reports</i> , 2021, 11, 666.	3.3	6
10	Ultrahigh-Speed Spectral-Domain Optical Coherence Tomography up to 1-MHz A-Scan Rate Using Space-Time-Division Multiplexing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	14
11	Integrated Quad-Scanner Strategy-Based Optical Coherence Tomography for the Whole-Directional Volumetric Imaging of a Sample. <i>Sensors</i> , 2021, 21, 1305.	3.8	7
12	Micron-scale human enamel layer characterization after orthodontic bracket debonding by intensity-based layer segmentation in optical coherence tomography images. <i>Scientific Reports</i> , 2021, 11, 10831.	3.3	5
13	Identification of organs inside hard tick body using spectral-domain optical coherence tomography. <i>Infrared Physics and Technology</i> , 2021, 114, 103611.	2.9	1
14	Doppler Optical Coherence Tomography for Otology Applications: From Phantom Simulation to In Vivo Experiment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5711.	2.5	4
15	Waterproof Galvanometer Scanner-Based Handheld Photoacoustic Microscopy Probe for Wide-Field Vasculature Imaging In Vivo. <i>Photonics</i> , 2021, 8, 305.	2.0	4
16	Non-Invasive Optical Coherence Tomography Data-Based Quantitative Algorithm for the Assessment of Residual Adhesive on Bracket-Removed Dental Surface. <i>Sensors</i> , 2021, 21, 4670.	3.8	11
17	In Vivo Rodent Cervicothoracic Vasculature Imaging Using Photoacoustic Computed Tomography. <i>Photonics</i> , 2021, 8, 312.	2.0	1
18	Functional assessment of moisture influenced cadaveric tympanic membrane using phase shift-resolved optical Doppler vibrography. <i>Journal of Biophotonics</i> , 2020, 13, e201900202.	2.3	3

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19	In Situ Characterization of Micro-Vibration in Natural Latex Membrane Resembling Tympanic Membrane Functionally Using Optical Doppler Tomography. <i>Sensors</i> , 2020, 20, 64.	3.8	11
20	Identification of multi-dimensional thread geometry using depth-resolved swept-source optical coherence tomography for assessment of dental implant fabrication. <i>Optics and Lasers in Engineering</i> , 2020, 127, 105951.	3.8	8
21	Non-Invasive Optical Screening of <i>Streptococcus Pneumonia</i> Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. <i>IEEE Photonics Journal</i> , 2020, 12, 1-11.	2.0	2
22	Assessment of the Inner Surface Roughness of 3D Printed Dental Crowns via Optical Coherence Tomography Using a Roughness Quantification Algorithm. <i>IEEE Access</i> , 2020, 8, 133854-133864.	4.2	10
23	Multi-directional Morphological Assessment of Single Bacterial Colonies Through Non-invasive Optical Imaging. <i>Annals of Biomedical Engineering</i> , 2020, 48, 3014-3023.	2.5	5
24	Vision-Inspection-Synchronized Dual Optical Coherence Tomography for High-Resolution Real-Time Multidimensional Defect Tracking in Optical Thin Film Industry. <i>IEEE Access</i> , 2020, 8, 190700-190709.	4.2	4
25	Fabrication of Dental Crown by Optical Coherence Tomography: A Pilot Study. <i>IEEE Access</i> , 2020, 8, 144969-144975.	4.2	2
26	Dynamic Compensation of Path Length Difference in Optical Coherence Tomography by an Automatic Temperature Control System of Optical Fiber. <i>IEEE Access</i> , 2020, 8, 77501-77510.	4.2	12
27	Optical Interferometric Fringe Pattern-Incorporated Spectrum Calibration Technique for Enhanced Sensitivity of Spectral Domain Optical Coherence Tomography. <i>Sensors</i> , 2020, 20, 2067.	3.8	7
28	Serial optical coherence microscopy for label-free volumetric histopathology. <i>Scientific Reports</i> , 2020, 10, 6711.	3.3	7
29	Fully waterproof two-axis galvanometer scanner for enhanced wide-field optical-resolution photoacoustic microscopy. <i>Optics Letters</i> , 2020, 45, 865.	3.3	22
30	Anti-EGFR antibody conjugated thiol chitosan-layered gold nanoshells for dual-modal imaging-guided cancer combination therapy. <i>Journal of Controlled Release</i> , 2019, 311-312, 26-42.	9.9	55
31	Measurement of Vibrating Tympanic Membrane in an In Vivo Mouse Model Using Doppler Optical Coherence Tomography. <i>Journal of Imaging</i> , 2019, 5, 74.	3.0	2
32	On-Field <i>In situ</i> Inspection for <i>Marssonina Coronaria</i> Infected Apple Blotch Based on Non-Invasive Bio-Photonic Imaging Module. <i>IEEE Access</i> , 2019, 7, 148684-148691.	4.2	11
33	Biocompatibility evaluation of bioprinted decellularized collagen sheet implanted in vivo cornea using swept-source optical coherence tomography. <i>Journal of Biophotonics</i> , 2019, 12, e201900098.	2.3	23
34	Non-Invasive Morphological Characterization of Rice Leaf Bulliform and Aerenchyma Cellular Regions Using Low Coherence Interferometry. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2104.	2.5	8
35	An Averaged Intensity Difference Detection Algorithm for Identification of Human Gingival Sulcus in Optical Coherence Tomography Images. <i>IEEE Access</i> , 2019, 7, 73076-73084.	4.2	9
36	3-Dimensional characterization of cortical bone microdamage following placement of orthodontic microimplants using Optical Coherence Tomography. <i>Scientific Reports</i> , 2019, 9, 3242.	3.3	19

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37	Analysis of Enamel Loss by Prophylaxis and Etching Treatment in Human Tooth Using Optical Coherence Tomography: An <i>In Vitro</i> Study. Journal of Healthcare Engineering, 2019, 2019, 1-9.	1.9	8
38	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
39	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
40	<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
41	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
42	<i>In Vivo</i> Fascicle Bifurcation Imaging of Rat Sciatic Nerve Using Swept-Source Optical Coherence Tomography. IEEE Access, 2018, 6, 7713-7718.	4.2	6
43	Defect inspection of actuator lenses using swept-source optical coherence tomography. Optical Review, 2018, 25, 403-409.	2.0	6
44	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
45	Optical assessment of the <i>in vivo</i> tympanic membrane status using a handheld optical coherence tomography-based otoscope. Acta Oto-Laryngologica, 2018, 138, 367-374.	0.9	15
46	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
47	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
48	Enamel loss by prophylaxis and etching treatment in human tooth analyzed using optical coherence tomography- An in vitro study. , 2018, , .		0
49	OCT for non-destructive examination of the internal biological structures of mosquito specimen. , 2018, , .		0
50	Handheld-probe-based optical Doppler tomography for blood flow imaging. Infrared Physics and Technology, 2018, 95, 183-188.	2.9	3
51	Clinical Utility of Intraoperative Tympanomastoidectomy Assessment Using a Surgical Microscope Integrated with an Optical Coherence Tomography. Scientific Reports, 2018, 8, 17432.	3.3	24
52	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
53	Multiple Wavelength Optical Coherence Tomography Assessments for Enhanced Ex Vivo Intra-Cochlear Microstructural Visualization. Electronics (Switzerland), 2018, 7, 133.	3.1	3
54	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

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55	Non-Destructive Classification of Diversely Stained Capsicum annum Seed Specimens of Different Cultivars Using Near-Infrared Imaging Based Optical Intensity Detection. Sensors, 2018, 18, 2500.	3.8	7
56	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
57	<i>In vivo</i> observation of metamorphosis of <i>Plodia interpunctella</i> borer using three-dimensional optical coherence tomography. Entomological Research, 2017, 47, 256-262.	1.1	12
58	Dual illumination for cornea and retina imaging using spectral domain optical coherence tomography. , 2017, , .		0
59	Application of wearable optical coherence tomography (OCT) and loop-mediated isothermal amplification (LAMP) techniques for <i>in situ</i> real-time field inspection of apple Marssonina blotch disease. Proceedings of SPIE, 2017, , .	0.8	0
60	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
61	Optical thin film inspection using parallel spectral domain optical coherence tomography. , 2017, , .		0
62	Swept source optical coherence tomography for <i>in vivo</i> growth monitoring of capsicum annum seeds treated with different NaCl concentrations. , 2017, , .		1
63	Optical sensing method to analyze germination rate of <i>Capsicum annum</i> seeds treated with growth-promoting chemical compounds using optical coherence tomography. Journal of Biomedical Optics, 2017, 22, 091502.	2.6	21
64	Optical Imaging Technique based Non-Destructive Volumetric Analysis for Biological and Industrial Materials. , 2017, , .		0
65	Dual-path handheld system for cornea and retina imaging using optical coherence tomography. Optical Review, 2017, 24, 219-225.	2.0	12
66	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
67	Optical fiber line monitoring using a handheld line information reader in optical communications. , 2017, , .		0
68	Structural Analysis of Polymer Composites Using Spectral Domain Optical Coherence Tomography. Sensors, 2017, 17, 1155.	3.8	13
69	Non-Destructive Analysis of the Internal Anatomical Structures of Mosquito Specimens Using Optical Coherence Tomography. Sensors, 2017, 17, 1897.	3.8	16
70	Development of a Handheld Line Information Reader and Generator for Efficient Management of Optical Communication Lines. Sensors, 2017, 17, 1950.	3.8	2
71	In Vivo Non-Destructive Monitoring of Capsicum Annum Seed Growth with Diverse NaCl Concentrations Using Optical Detection Technique. Sensors, 2017, 17, 2887.	3.8	7
72	Optical coherence tomography-integrated, wearable (backpack-type), compact diagnostic imaging modality for <i>in situ</i> leaf quality assessment. Applied Optics, 2017, 56, D108.	2.1	27

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73	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
74	Fast Industrial Inspection of Optical Thin Film Using Optical Coherence Tomography. Sensors, 2016, 16, 1598.	3.8	42
75	<i>In Vivo</i> Monitoring on Growth and Spread of Gray Leaf Spot Disease in<i>Capsicum annuum</i> Leaf Using Spectral Domain Optical Coherence Tomography. Journal of Spectroscopy, 2016, 2016, 1-6.	1.3	29
76	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
77	Full-Field Optical Coherence Tomography Using Galvo Filter-Based Wavelength Swept Laser. Sensors, 2016, 16, 1933.	3.8	6
78	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
79	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
80	High-resolution, dual-depth spectral-domain optical coherence tomography with interlaced detection for whole-eye imaging. Applied Optics, 2016, 55, 7212.	2.1	10
81	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
82	Two-axis polydimethylsiloxane-based electromagnetic microelectromechanical system scanning mirror for optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 106001.	2.6	9
83	In Vivo Near Infrared Virtual Intraoperative Surgical Photoacoustic Optical Coherence Tomography. Scientific Reports, 2016, 6, 35176.	3.3	51
84	Simulated microsurgery monitoring using intraoperative multimodal surgical microscopy. , 2016, , .		0
85	<i>In vivo</i> imaging of melanoma-implanted magnetic nanoparticles using contrast-enhanced magneto-motive optical Doppler tomography. Journal of Biomedical Optics, 2016, 21, 064001.	2.6	15
86	Quantitative monitoring of laser-treated engineered skin using optical coherence tomography. Biomedical Optics Express, 2016, 7, 1030.	2.9	14
87	A 2-axis Polydimethylsiloxane (PDMS) based electromagnetic MEMS scanning mirror for optical coherence tomography. , 2016, , .		2
88	Optically deviated focusing method based high-speed SD-OCT for in vivo retinal clinical applications. Optical Review, 2016, 23, 307-315.	2.0	20
89	Lateral resolution enhancement using programmable phase modulator in optical coherence tomography. Bio-Medical Materials and Engineering, 2015, 26, S1465-S1471.	0.6	8
90	Optical Coherence Tomography for the Diagnosis and Evaluation of Human Otitis Media. Journal of Korean Medical Science, 2015, 30, 328.	2.5	37

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91	Virtual intraoperative surgical photoacoustic microscopy. , 2015, , .		0
92	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
93	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
94	Wide-field optical coherence microscopy of the mouse brain slice. Optics Letters, 2015, 40, 4420.	3.3	21
95	Real-time Near-infrared Virtual Intraoperative Surgical Photoacoustic Microscopy. Photoacoustics, 2015, 3, 100-106.	7.8	21
96	Virtual Intraoperative surgical photoacoustic microscopy. , 2015, , .		1
97	Optical coherence tomography for advanced screening in the primary care office. Journal of Biophotonics, 2014, 7, 525-533.	2.3	61
98	Development of Real-Time Dual-Display Handheld and Bench-Top Hybrid-Mode SD-OCTs. Sensors, 2014, 14, 2171-2181.	3.8	19
99	Intraoperative surgical photoacoustic microscopy (IS-PAM) using augmented reality. , 2014, , .		0
100	Feasibility study on photoacoustic guidance for high-intensity focused ultrasound-induced hemostasis. Journal of Biomedical Optics, 2014, 19, 105010.	2.6	17
101	Stimulated penetrating keratoplasty using real-time virtual intraoperative surgical optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 1.	2.6	17
102	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
103	Phase correction using programmable phase modulator (PPM) in optical coherence tomography. Biomedical Engineering Letters, 2014, 4, 64-72.	4.1	5
104	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
105	In vivo virtual intraoperative surgical photoacoustic microscopy. Applied Physics Letters, 2013, 103, 203702.	3.3	27
106	Au ²⁺ 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
107	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
108	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

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109	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
110	Non-Destructive Inspection Methods for LEDs Using Real-Time Displaying Optical Coherence Tomography. Sensors, 2012, 12, 10395-10406.	3.8	39
111	Ultra-Fast Displaying Spectral Domain Optical Doppler Tomography System Using a Graphics Processing Unit. Sensors, 2012, 12, 6920-6929.	3.8	34
112	Objective-free optical-resolution photoacoustic microscopy. Journal of Biomedical Optics, 2012, 18, 010501.	2.6	23
113	Pulsed magneto-motive optical coherence tomography for remote cellular imaging. Optics Letters, 2012, 37, 3714.	3.3	7
114	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
115	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
116	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
117	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
118	Full-range k-domain linearization in spectral-domain optical coherence tomography. Applied Optics, 2011, 50, 1158.	2.1	63
119	Handheld Optical Coherence Tomography Scanner for Primary Care Diagnostics. IEEE Transactions on Biomedical Engineering, 2011, 58, 741-744.	4.2	130
120	Optical Sensing Method for Screening Disease in Melon Seeds by Using Optical Coherence Tomography. Sensors, 2011, 11, 9467-9477.	3.8	61
121	Magnetomotive laser speckle imaging. Journal of Biomedical Optics, 2010, 15, 011110.	2.6	15
122	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
123	Methods to enhance laser speckle imaging of high-flow and low-flow vasculature. , 2009, 2009, 4073-6.		2
124	Frequency swept laser at 1300nm using a simple rotating slit. , 2008, , .		0
125	Imaging nanoparticle flow using magneto-motive optical Doppler tomography. Nanotechnology, 2007, 18, 035504.	2.6	20
126	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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127	Detection of magnetic nanoparticles in tissue using magneto-motive ultrasound. <i>Nanotechnology</i> , 2006, 17, 4183-4190.	2.6	178
128	Hemoglobin contrast in magnetomotive optical Doppler tomography. <i>Optics Letters</i> , 2006, 31, 778.	3.3	23
129	Detection of vulnerable plaque in a murine model of atherosclerosis with optical coherence tomography. <i>Catheterization and Cardiovascular Interventions</i> , 2006, 67, 915-923.	1.7	62
130	Optical coherence tomography speckle reduction by a partially spatially coherent source. <i>Journal of Biomedical Optics</i> , 2005, 10, 064034.	2.6	79
131	Use of a Blood Substitute to Determine Instantaneous Murine Right Ventricular Thickening With Optical Coherence Tomography. <i>Circulation</i> , 2002, 105, 1843-1849.	1.6	23