Hidenobu Arimoto

List of Publications by Year
in descending order

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42	748	471509	526287
papers	citations	17 h-index	27 g-index

42	42	42	613
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Noninvasive blood glucose assay using a newly developed near-infrared system. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 322-330.	2.9	118
2	Depth profile of diffuse reflectance near-infrared spectroscopy for measurement of water content in skin. Skin Research and Technology, 2005, 11, 27-35.	1.6	84
3	New Methodology to Obtain a Calibration Model for Noninvasive Near-Infrared Blood Glucose Monitoring. Applied Spectroscopy, 2006, 60, 441-449.	2.2	64
4	Non-Contact Skin Moisture Measurement Based on Near-Infrared Spectroscopy. Applied Spectroscopy, 2004, 58, 1439-1446.	2.2	46
5	Simulation study ofin vitroglucose measurement by NIR spectroscopy and a method of error reduction. Physics in Medicine and Biology, 2003, 48, 2373-2390.	3.0	42
6	Regional Difference of Water Content in Human Skin Studied by Diffuse-Reflectance Near-Infrared Spectroscopy: Consideration of Measurement Depth. Applied Spectroscopy, 2006, 60, 24-28.	2.2	42
7	Noninvasive Near-Infrared Blood Glucose Monitoring Using a Calibration Model Built by a Numerical Simulation Method: Trial Application to Patients in an Intensive Care Unit. Applied Spectroscopy, 2006, 60, 1423-1431.	2.2	32
8	Temperature imaging of water in a microchannel using thermal sensitivity of near-infrared absorption. Lab on A Chip, 2011, 11, 3479.	6.0	30
9	Simultaneous imaging of temperature and concentration of ethanolâ€“water mixtures in microchannel using near-infrared dual-wavelength absorption technique. Measurement Science and Technology, 2016, 27, 115401.	2.6	30
10	Monte Carlo Simulation of Near Infrared Reflectance Spectroscopy in the Wavelength Range from 1000 nm to 1900 nm. Optical Review, 2003, 10, 600-606.	2.0	29
11	Temperature-Insensitive Measurement of Glucose Concentration Based on Near Infrared Spectroscopy and Partial Least Squares Analysis. Optical Review, 2003, 10, 74-76.	2.0	22
12	Multispectral Polarization Imaging for Observing Blood Oxygen Saturation in Skin Tissue. Applied Spectroscopy, 2006, 60, 459-464.	2.2	22
13	Temperature imaging of sub-millimeter-thick water using a near-infrared camera. International Journal of Heat and Mass Transfer, 2009, 52, 4221-4228.	4.8	22
14	Imaging wavelength and light penetration depth for water content distribution measurement of skin. Skin Research and Technology, 2015, 21, 94-100.	1.6	21
15	Temperature measurements of turbid aqueous solutions using near-infrared spectroscopy. Applied Optics, 2008, 47, 2227.	2.1	19
16	Microfluidic image cytometry for measuring number and sizes of biological cells flowing through a microchannel using the micro-PIV technique. Measurement Science and Technology, 2008, 19, 025401.	2.6	18
17	Measurement of refractive index change induced by dark reaction of photopolymer with digital holographic quantitative phase microscopy. Optics Communications, 2012, 285, 4911-4917.	2.1	17
18	Instrumental Requirements for Non-Invasive Blood Glucose Measurement Using NIR Spectroscopy. Optical Review, 2003, 10, 161-165.	2.0	13

#	Article	IF	Citations
19	Estimation of water content distribution in the skin using dualband polarization imaging. Skin Research and Technology, 2007, 13, 49-54.	1.6	12
20	Adaptive Optics with a Liquid-Crystal-on-Silicon Spatial Light Modulator and Its Behavior in Retinal Imaging. Japanese Journal of Applied Physics, 2009, 48, 070213.	1.5	10
21	Reconstruction of cross-sectional temperature distributions of water around a thin heating wire by inverse Abel transform of near-infrared absorption images. International Journal of Heat and Mass Transfer, 2014, 77, 852-859.	4.8	9
22	Coherence-Based 3-D and Spectral Imaging and Laser-Scanning Microscopy. Proceedings of the IEEE, 2006, 94, 608-628.	21.3	8
23	Analysis of absorption and spreading of moisturizer on the microscopic region of the skin surface with near-infrared imaging. Skin Research and Technology, 2016, 22, 505-512.	1.6	6
24	Measurement of 2-D SpO2 Distribution in Skin Tissue by Multispectral Imaging with Depth Selectivity Control. , 2006, 2006, 1968-71.		4
25	Retinal blood oxygen saturation mapping by multispectral imaging and morphological angiography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1627-30.	0.5	4
26	Mobile-phone-based Rheinberg microscope with a light-emitting diode array. Journal of Biomedical Optics, 2018, 24, 1.	2.6	4
27	Oximetry of Retinal Capillaries by Multicomponent Analysis. Applied Spectroscopy, 2012, 66, 962-969.	2.2	3
28	Phase measurement of structural modifications created by femtosecond laser pulses in glass with phase-shifting digital holographic microscopy. Optical Engineering, 2017, 56, 111702.	1.0	3
29	Measurement of Temperature Differences between Micro-regions in Water Using Near-Infrared Spectroscopy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4564-7.	0.5	2
30	Retinal Oximetry with 510â€“600 nm Light Based on Partial Least-Squares Regression Technique. Japanese Journal of Applied Physics, 2010, 49, 112401.	1.5	2
31	Water content distribution imaging of skin tissue using near-infrared camera and measurement depth analysis. , 2013, , .		2
32	Measurement of Light-induced Refractive Index Change in Photopolymer with Quantitative Phase Microscopy. , 2011, , .		2
33	Looking through diffusers by phase correction with lensless digital holography. OSA Continuum, 2020, 3, 3536.	1.8	2
34	Visualization Technique for Water Content Distribution of Skin Tissue by Dualband Polarization Imaging. , 2005, 2005, 3165-8.		1
35	PLS regression approach for oxygen saturation in spectroscopic fundus images. , 2006, 6138, 391.		1
36	Evaluation of dual-wavelength excitation autofluorescence imaging of colorectal tumours with a high-sensitivity CMOS imager: a cross-sectional study. BMC Gastroenterology, 2015, 15, 110.	2.0	1

#	Article	IF	Citations
37	Reconstruction of complex amplitude by lensless phase-shift digital holography through an opaque glass plate. , 2018, , .		1
38	Instrumental requirements for blood glucose sensing based on diffuse reflectance NIR spectroscopy. , 2003, 4965, 17.		0
39	Direct Observation of Hydrogen Production from an Alcohol Polymer Stimulated by Surface Electron Current. Bulletin of the Chemical Society of Japan, 2005, 78, 255-257.	3.2	0
40	Analysis of water spread dynamics in human skin with near-infrared imaging. Proceedings of SPIE, 2015, , .	0.8	0
41	Visualization of Concentrations of Salts Produced during Neutralization Reactions by using Single Wavelength in the Near-infrared Region. Transactions of Visualization Soc of Japan, 2016, 36, 62-70.	0.2	0
42	Spectroscopic analysis of autofluorescence distribution in digestive organ for unstained metabolism-based tumor detection. , 2017, , .		0