

Hidenobu Arimoto

List of Publications by Year in descending order

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42
papers

748
citations

471509

17
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526287

27
g-index

42
all docs

42
docs citations

42
times ranked

613
citing authors

#	ARTICLE	IF	CITATIONS
1	Looking through diffusers by phase correction with lensless digital holography. OSA Continuum, 2020, 3, 3536.	1.8	2
2	Mobile-phone-based Rheinberg microscope with a light-emitting diode array. Journal of Biomedical Optics, 2018, 24, 1.	2.6	4
3	Reconstruction of complex amplitude by lensless phase-shift digital holography through an opaque glass plate. , 2018, , .		1
4	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
5	Spectroscopic analysis of autofluorescence distribution in digestive organ for unstained metabolism-based tumor detection. , 2017, , .		0
6	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
7	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
8	Simultaneous imaging of temperature and concentration of ethanol-water mixtures in microchannel using near-infrared dual-wavelength absorption technique. Measurement Science and Technology, 2016, 27, 115401.	2.6	30
9	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
10	Analysis of water spread dynamics in human skin with near-infrared imaging. Proceedings of SPIE, 2015, , .	0.8	0
11	Imaging wavelength and light penetration depth for water content distribution measurement of skin. Skin Research and Technology, 2015, 21, 94-100.	1.6	21
12	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
13	Water content distribution imaging of skin tissue using near-infrared camera and measurement depth analysis. , 2013, , .		2
14	Oximetry of Retinal Capillaries by Multicomponent Analysis. Applied Spectroscopy, 2012, 66, 962-969.	2.2	3
15	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
16	Temperature imaging of water in a microchannel using thermal sensitivity of near-infrared absorption. Lab on A Chip, 2011, 11, 3479.	6.0	30
17	Measurement of Light-induced Refractive Index Change in Photopolymer with Quantitative Phase Microscopy. , 2011, , .		2
18	Retinal Oximetry with 510-600 nm Light Based on Partial Least-Squares Regression Technique. Japanese Journal of Applied Physics, 2010, 49, 112401.	1.5	2

#	ARTICLE	IF	CITATIONS
19	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
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	Temperature measurements of turbid aqueous solutions using near-infrared spectroscopy. Applied Optics, 2008, 47, 2227.	2.1	19
22	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
23	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
24	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
25	Estimation of water content distribution in the skin using dualband polarization imaging. Skin Research and Technology, 2007, 13, 49-54.	1.6	12
26	Measurement of 2-D SpO ₂ Distribution in Skin Tissue by Multispectral Imaging with Depth Selectivity Control. , 2006, 2006, 1968-71.		4
27	Coherence-Based 3-D and Spectral Imaging and Laser-Scanning Microscopy. Proceedings of the IEEE, 2006, 94, 608-628.	21.3	8
28	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
29	New Methodology to Obtain a Calibration Model for Noninvasive Near-Infrared Blood Glucose Monitoring. Applied Spectroscopy, 2006, 60, 441-449.	2.2	64
30	Multispectral Polarization Imaging for Observing Blood Oxygen Saturation in Skin Tissue. Applied Spectroscopy, 2006, 60, 459-464.	2.2	22
31	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
32	PLS regression approach for oxygen saturation in spectroscopic fundus images. , 2006, 6138, 391.		1
33	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
34	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
35	Visualization Technique for Water Content Distribution of Skin Tissue by Dualband Polarization Imaging. , 2005, 2005, 3165-8.		1
36	Non-Contact Skin Moisture Measurement Based on Near-Infrared Spectroscopy. Applied Spectroscopy, 2004, 58, 1439-1446.	2.2	46

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37	Temperature-Insensitive Measurement of Glucose Concentration Based on Near Infrared Spectroscopy and Partial Least Squares Analysis. <i>Optical Review</i> , 2003, 10, 74-76.	2.0	22
38	Instrumental Requirements for Non-Invasive Blood Glucose Measurement Using NIR Spectroscopy. <i>Optical Review</i> , 2003, 10, 161-165.	2.0	13
39	Monte Carlo Simulation of Near Infrared Reflectance Spectroscopy in the Wavelength Range from 1000 nm to 1900 nm. <i>Optical Review</i> , 2003, 10, 600-606.	2.0	29
40	Noninvasive blood glucose assay using a newly developed near-infrared system. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003, 9, 322-330.	2.9	118
41	Simulation study of in vitro glucose measurement by NIR spectroscopy and a method of error reduction. <i>Physics in Medicine and Biology</i> , 2003, 48, 2373-2390.	3.0	42
42	Instrumental requirements for blood glucose sensing based on diffuse reflectance NIR spectroscopy. , 2003, 4965, 17.		0