Kung-Bin Sung

List of Publications by Year
in descending order

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37 papers	1,062 citations	516710 16 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	1181 citing authors

#	Article	IF	Citations
1	Rapid Detection of Virus Nucleic Acid via Isothermal Amplification on Plasmonic Enhanced Digitizing Biosensor. Biosensors, 2022, 12, 75.	4.7	3
2	Evaluation of the robustness of cerebral oximetry to variations in skin pigmentation using a tissue-simulating phantom. Biomedical Optics Express, 2022, 13, 2909.	2.9	17
3	Characterization and identification of cell death dynamics by quantitative phase imaging. Journal of Biomedical Optics, 2022, 27, .	2.6	5
4	Quantifying tissue optical properties of human heads in vivo using continuous-wave near-infrared spectroscopy and subject-specific three-dimensional Monte Carlo models. Journal of Biomedical Optics, 2022, 27, .	2.6	8
5	Simulation Study on the Optimization of Photon Energy Delivered to the Prefrontal Cortex in Low-Level-Light Therapy Using Red to Near-Infrared Light. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-10.	2.9	2
6	Automatic detection and characterization of quantitative phase images of thalassemic red blood cells using a mask region-based convolutional neural network. Journal of Biomedical Optics, 2020, 25, .	2.6	16
7	Validation of an Inverse Fitting Method of Diffuse Reflectance Spectroscopy to Quantify Multi-Layered Skin Optical Properties. Photonics, 2019, 6, 61.	2.0	11
8	Regulation of lipid droplets in live preadipocytes using optical diffraction tomography and Raman spectroscopy. Optics Express, 2019, 27, 22994.	3.4	10
9	Modelling spatially-resolved diffuse reflectance spectra of a multi-layered skin model by artificial neural networks trained with Monte Carlo simulations. Biomedical Optics Express, 2018, 9, 1531.	2.9	30
10	Hybrid method to estimate two-layered superficial tissue optical properties from simulated data of diffuse reflectance spectroscopy. Applied Optics, 2018, 57, 3038.	1.8	3
11	Non-axial-scanning multifocal confocal microscopy with multiplexed volume holographic gratings. Optics Letters, 2017, 42, 346.	3.3	21
12	Morphometric analysis of erythrocytes from patients with thalassemia using tomographic diffractive microscopy. Journal of Biomedical Optics, 2017, 22, 1.	2.6	3
13	Precancerous esophageal epithelia are associated with significantly increased scattering coefficients. Biomedical Optics Express, 2015, 6, 3795.	2.9	13
14	Tip-enhanced fluorescence with radially polarized illumination for monitoring loop-mediated isothermal amplification on Hepatitis C virus cDNA. Journal of Biomedical Optics, 2015, 20, 027005.	2.6	5
15	Development of a movable diffuse reflectance spectroscopy system for clinical study of esophageal precancer. Proceedings of SPIE, 2015, , .	0.8	2
16	Characteristic investigation of scanning surface plasmon microscopy for nucleotide functionalized nanoarray. Optics Express, 2015, 23, 20104.	3.4	1
17	Tomographic diffractive microscopy of living cells based on a common-path configuration. Optics Letters, 2014, 39, 2210.	3.3	59
18	Accurate extraction of optical properties and top layer thickness of two-layered mucosal tissue phantoms from spatially resolved reflectance spectra. Journal of Biomedical Optics, 2014, 19, 077002.	2.6	21

#	Article	IF	Citations
19	Investigation of influences of the paraformaldehyde fixation and paraffin embedding removal process on refractive indices and scattering properties of epithelial cells. Journal of Biomedical Optics, 2014, 19, 075007.	2.6	20
20	Substrate Stiffness Regulates Filopodial Activities in Lung Cancer Cells. PLoS ONE, 2014, 9, e89767.	2.5	24
21	Development of a nanofluidic preconcentrator with precise sample positioning and multi-channel preconcentration. Microfluidics and Nanofluidics, 2013, 14, 645-655.	2.2	14
22	Digital holographic microtomography for highâ€resolution refractive index mapping of live cells. Journal of Biophotonics, 2013, 6, 416-424.	2.3	53
23	Enhancing the sensitivity to scattering coefficient of the epithelium in a two-layered tissue model by oblique optical fibers: Monte Carlo study. Journal of Biomedical Optics, 2012, 17, 107003.	2.6	18
24	Quantitative three-dimensional reconstruction of limited-angle experimental measurements in diffraction tomography. , 2012, , .		1
25	High-throughput detection of immobilized plasmonic nanoparticles by a hyperspectral imaging system based on Fourier transform spectrometry. Optics Express, 2011, 19, 1291.	3.4	20
26	Investigating the spectral characteristics of backscattering from heterogeneous spherical nuclei using broadband finite-difference time-domain simulations. Journal of Biomedical Optics, 2010, 15, 015007.	2.6	9
27	Composite Organicâ^'Inorganic Nanoparticles as Raman Labels for Tissue Analysis. Nano Letters, 2007, 7, 351-356.	9.1	148
28	Ultrasensitive Detection and Characterization of Posttranslational Modifications Using Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2006, 78, 3543-3550.	6.5	29
29	In vivo fiber-optic confocal reflectance microscope with an injection-molded plastic miniature objective lens. Applied Optics, 2005, 44, 1792.	2.1	102
30	Confocal microscopy. IEEE Potentials, 2004, 23, 14-17.	0.3	5
31	Fiber optic confocal reflectance microscopy: a new real-time technique to view nuclear morphology in cervical squamous epithelium in vivo. Optics Express, 2003, 11, 3171.	3.4	68
32	Design of a high-numerical-aperture miniature microscope objective for an endoscopic fiber confocal reflectance microscope. Applied Optics, 2002, 41, 4603.	2.1	89
33	Endoscopic Microscopy. Disease Markers, 2002, 18, 269-291.	1.3	28
34	Fiber-optic confocal reflectance microscope with miniature objective for in vivo imaging of human tissues. IEEE Transactions on Biomedical Engineering, 2002, 49, 1168-1172.	4.2	80
35	Fiber confocal reflectance microscope (FCRM) for in-vivo imaging. Optics Express, 2001, 9, 821.	3.4	59
36	Near Real Time Confocal Microscopy of Amelanotic Tissue: Dynamics of Aceto-Whitening Enable Nuclear Segmentation. Optics Express, 2000, 6, 40.	3.4	65

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37	Fiber optic confocal microscope with miniature objective for in vivo imaging. , 0, , .		0