Lise Lyngsnes Randeberg

List of Publications by Year
in descending order

72 papers	931 citations	471509 17 h-index	501196 28 g-index
72 all docs	72 docs citations	72 times ranked	769 citing authors

#	Article	IF	Citations
1	Methemoglobin formation during laser induced photothermolysis of vascular skin lesions. Lasers in Surgery and Medicine, 2004, 34, 414-419.	2.1	105
2	Characterization of vascular structures and skin bruises using hyperspectral imaging, image analysis and diffusion theory. Journal of Biophotonics, 2010, 3, 53-65.	2.3	77
3	A novel approach to age determination of traumatic injuries by reflectance spectroscopy. Lasers in Surgery and Medicine, 2006, 38, 277-289.	2.1	71
4	Estimation of skin optical parameters for real-time hyperspectral imaging applications. Journal of Biomedical Optics, 2014, 19, 066003.	2.6	63
5	Skin changes following minor trauma. Lasers in Surgery and Medicine, 2007, 39, 403-413.	2.1	43
6	Increase of dermal blood volume fraction reduces the threshold for laser-induced purpura: Implications for port wine stain laser treatment. Lasers in Surgery and Medicine, 2004, 34, 182-188.	2.1	42
7	Hyperspectral imaging of atherosclerotic plaques in vitro. Journal of Biomedical Optics, 2011, 16, 026011.	2.6	36
8	Monitoring of hexyl 5-aminolevulinate-induced photodynamic therapy in rat bladder cancer by optical spectroscopy. Journal of Biomedical Optics, 2008, 13, 044031.	2.6	33
9	Hyperspectral imaging of bruised skin. , 2006, , .		32
10	Cooling efficiency of cryogen spray during laser therapy of skin. Lasers in Surgery and Medicine, 2003, 32, 137-142.	2.1	31
11	Mirror Mirror on the Wall… An Unobtrusive Intelligent Multisensory Mirror for Well-Being Status Self-Assessment and Visualization. IEEE Transactions on Multimedia, 2017, 19, 1467-1481.	7.2	28
12	Bilirubin estimates from smartphone images of newborn infants' skin correlated highly to serum bilirubin levels. Acta Paediatrica, International Journal of Paediatrics, 2020, 109, 2532-2538.	1.5	28
13	Hyperspectral imaging as a diagnostic tool for chronic skin ulcers. Proceedings of SPIE, 2013, , .	0.8	23
14	Real-Time Noise Removal for Line-Scanning Hyperspectral Devices Using a Minimum Noise Fraction-Based Approach. Sensors, 2015, 15, 3362-3378.	3.8	22
15	<title>Optical properties of human blood as a function of temperature</title>. , 2002, 4609, 20.		20
16	Towards automated sorting of Atlantic cod (Gadus morhua) roe, milt, and liver â€“ Spectral characterization and classification using visible and near-infrared hyperspectral imaging. Food Control, 2016, 62, 337-345.	5.5	18
17	Suitability of diffusion approximation for an inverse analysis of diffuse reflectance spectra from human skin in vivo. OSA Continuum, 2019, 2, 905.	1.8	18
18	Wavelet based feature extraction and visualization in hyperspectral tissue characterization. Biomedical Optics Express, 2014, 5, 4260.	2.9	17

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19	Can spectral–spatial image segmentation be used to discriminate experimental burn wounds?. Journal of Biomedical Optics, 2016, 21, 101413.	2.6	17
20	Hyperspectral imaging of bruises in the SWIR spectral region. Proceedings of SPIE, 2012, , .	0.8	16
21	Hyperspectral imaging for detection of arthritis: feasibility and prospects. Journal of Biomedical Optics, 2015, 20, 096011.	2.6	16
22	An explorative chemometric approach applied to hyperspectral images for the study of illuminated manuscripts. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 177, 69-78.	3.9	16
23	Sequential cryogen spraying for heat flux control at the skin surface. , 2001, 4244, 74.		15
24	Applicability of diffusion approximation in analysis of diffuse reflectance spectra from healthy human skin. Proceedings of SPIE, 2013, , .	0.8	14
25	Can hyperspectral imaging be used to map corrosion products on outdoor bronze sculptures?. Journal of Spectral Imaging, 0, , .	0.0	13
26	Optical classification of bruises. , 2004, , .		10
27	In vivo hyperspectral imaging of traumatic skin injuries in a porcine model. , 2007, , .		9
28	Tissue responses to hexyl 5-aminolevulinate-induced photodynamic treatment in syngeneic orthotopic rat bladder cancer model: possible pathways of action. Journal of Biomedical Optics, 2011, 16, 028001.	2.6	9
29	Re-oxygenation of post-mortem lividity by passive diffusion through the skin at low temperature. Forensic Science, Medicine, and Pathology, 2011, 7, 333-335.	1.4	8
30	Quantitative characterization of traumatic bruises by combined pulsed photothermal radiometry and diffuse reflectance spectroscopy. , 2015, , .		7
31	Towards real-time medical diagnostics using hyperspectral imaging technology. , 2015, , .		7
32	Performance of diffusion theory vs. Monte Carlo methods. , 2005, , .		5
33	Hyperspectral characterization of re-epithelialization in an in vitro wound model. Journal of Biophotonics, 2020, 13, e202000108.	2.3	5
34	In vitro study on methemoglobin formation in erythrocytes following hexyl-aminolevulinate induced photodynamic therapy. , 2007, , .		4
35	Hyperspectral imaging of blood perfusion and chromophore distribution in skin. Proceedings of SPIE, 2009, , .	0.8	4
36	Intercomparison of EMCCD- and sCMOS-based imaging spectrometers for biomedical applications in low-light conditions. Proceedings of SPIE, 2012, , .	0.8	4

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37	Performance of Diffusion Theory vs Monte Carlo Methods. , 2005, , ThB3.		3
38	Hyperspectral characterization of an in vitro wound model. Proceedings of SPIE, 2014, , .	0.8	3
39	Combining the diffusion approximation and Monte Carlo modeling in analysis of diffuse reflectance spectra from human skin. Proceedings of SPIE, 2014, , .	0.8	3
40	Vessel contrast enhancement in hyperspectral images. Proceedings of SPIE, 2015, , .	0.8	3
41	Detection of hypercholesterolemia using hyperspectral imaging of human skin. , 2015, , .		3
42	Simulated color: a diagnostic tool for skin lesions like port-wine stain. , 2001, , .		2
43	Characterization of atherosclerotic plaque by reflection spectroscopy and thermography: a comparison. , 2005, , .		2
44	Hyperspectral low-light camera for imaging of biological samples. , 2010, , .		2
45	Hyperspectral characterization of fluorophore diffusion in human skin using a sCMOS based hyperspectral camera. , 2011, , .		2
46	Characterization of the bruise healing process using pulsed photothermal radiometry. Proceedings of SPIE, 2013, , .	0.8	2
47	A combined 3D and hyperspectral method for surface imaging of wounds. Proceedings of SPIE, 2013, , .	0.8	2
48	Identification of inflammation sites in arthritic joints using hyperspectral imaging. Proceedings of SPIE, 2014, , .	0.8	2
49	Simulation of light transport in arthritic- and non-arthritic human fingers. , 2014, , .		2
50	Towards real-time medical diagnostics using hyperspectral imaging technology. , 2015, , .		2
51	The Optics of Bruising. , 2010, , 825-858.		2
52	Exploiting scale-invariance: a top layer targeted inverse model for hyperspectral images of wounds. Biomedical Optics Express, 2020, 11, 5070.	2.9	2
53	Optical diagnostics of liver pathology. , 2003, , .		1
54	Combined hyperspectral and 3D characterization of non-healing skin ulcers. , 2013, , .		1

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55	Detection of hypercholesterolemia using hyperspectral imaging of human skin. Proceedings of SPIE, 2015, , .	0.8	1
56	Hyperspectral imaging for detection of cholesterol in human skin. Proceedings of SPIE, 2015, , .	0.8	1
57	Hyperspectral characterization of tissue in the SWIR spectral range: a road to new insight?. , 2019, , .		1
58	Automated Classification of Roe, Milt and Liver from Atlantic Cod Based on Spectral Characterisation Using Hyperspectral Imaging in Visible/Near Infrared and Short-Wavelength Infrared Ranges. NIR News, 2016, 27, 7-8.	0.3	1
59	Combined 3D model acquisition and autofocus tracking system for hyperspectral line-scanning devices. , 2019, , .		1
60	Application of smoothing splines for spectroscopic analysis in hyperspectral images. , 2019, , .		1
61	Optical spectroscopy by 5-aminolevulinic acid hexylester induced photodynamic treatment in rat bladder cancer. , 2006, , .		0
62	Subcutaneous transport of extravascular blood. , 2006, 6078, 40.		0
63	Hyperspectral characterization of atherosclerotic plaques. Proceedings of SPIE, 2009, , .	0.8	0
64	Low-light hyperspectral imager for characterization of biological samples based on an sCMOS image sensor. Proceedings of SPIE, 2011, , .	0.8	0
65	UV doses and skin effects during psoriasis climate therapy. Proceedings of SPIE, 2011, , .	0.8	0
66	Estimation of skin optical parameters for real-time hyperspectral imaging applications. Proceedings of SPIE, 2014, , .	0.8	0
67	Spectral-spatial classification combined with diffusion theory based inverse modeling of hyperspectral images. Proceedings of SPIE, 2016, , .	0.8	0
68	Response to letter to the editor. Acta Paediatrica, International Journal of Paediatrics, 2020, 109, 2823-2823.	1.5	0
69	Biomechanical characterization of soft tissue injuries. , 2007, , .		0
70	Responses to hexyl 5-aminolevulinate-induced photodynamic treatment in rat bladder cancer model. Proceedings of SPIE, 2010, , .	0.8	0
71	Hyperspectral imaging as a tool for fluorescence imaging and characterization of skin bruises. , 2012, , .		0
72	A random forest-based method for selection of regions of interest in hyperspectral images of ex vivo human skin. , 2019, , .		0