

# Lise Lyngsnes Randeberg

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Response to letter to the editor. Acta Paediatrica, International Journal of Paediatrics, 2020, 109, 2823-2823.	1.5	0
2	Hyperspectral characterization of re-epithelialization in an in vitro wound model. Journal of Biophotonics, 2020, 13, e202000108.	2.3	5
3	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
4	Exploiting scale-invariance: a top layer targeted inverse model for hyperspectral images of wounds. Biomedical Optics Express, 2020, 11, 5070.	2.9	2
5	Hyperspectral characterization of tissue in the SWIR spectral range: a road to new insight?. , 2019, , .		1
6	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
7	Combined 3D model acquisition and autofocus tracking system for hyperspectral line-scanning devices. , 2019, , .		1
8	Application of smoothing splines for spectroscopic analysis in hyperspectral images. , 2019, , .		1
9	A random forest-based method for selection of regions of interest in hyperspectral images of ex vivo human skin. , 2019, , .		0
10	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
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	Can spectral-spatial image segmentation be used to discriminate experimental burn wounds?. Journal of Biomedical Optics, 2016, 21, 101413.	2.6	17
13	Spectral-spatial classification combined with diffusion theory based inverse modeling of hyperspectral images. Proceedings of SPIE, 2016, , .	0.8	0
14	Towards automated sorting of Atlantic cod (Gadus morhua) roe, milt, and liver - Spectral characterization and classification using visible and near-infrared hyperspectral imaging. Food Control, 2016, 62, 337-345.	5.5	18
15	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
16	Hyperspectral imaging for detection of arthritis: feasibility and prospects. Journal of Biomedical Optics, 2015, 20, 096011.	2.6	16
17	Quantitative characterization of traumatic bruises by combined pulsed photothermal radiometry and diffuse reflectance spectroscopy. , 2015, , .		7
18	Towards real-time medical diagnostics using hyperspectral imaging technology. , 2015, , .		2

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19	Detection of hypercholesterolemia using hyperspectral imaging of human skin. Proceedings of SPIE, 2015, , .	0.8	1
20	Real-Time Noise Removal for Line-Scanning Hyperspectral Devices Using a Minimum Noise Fraction-Based Approach. Sensors, 2015, 15, 3362-3378.	3.8	22
21	Vessel contrast enhancement in hyperspectral images. Proceedings of SPIE, 2015, , .	0.8	3
22	Hyperspectral imaging for detection of cholesterol in human skin. Proceedings of SPIE, 2015, , .	0.8	1
23	Detection of hypercholesterolemia using hyperspectral imaging of human skin. , 2015, , .		3
24	Towards real-time medical diagnostics using hyperspectral imaging technology. , 2015, , .		7
25	Hyperspectral characterization of an in vitro wound model. Proceedings of SPIE, 2014, , .	0.8	3
26	Identification of inflammation sites in arthritic joints using hyperspectral imaging. Proceedings of SPIE, 2014, , .	0.8	2
27	Estimation of skin optical parameters for real-time hyperspectral imaging applications. Proceedings of SPIE, 2014, , .	0.8	0
28	Combining the diffusion approximation and Monte Carlo modeling in analysis of diffuse reflectance spectra from human skin. Proceedings of SPIE, 2014, , .	0.8	3
29	Wavelet based feature extraction and visualization in hyperspectral tissue characterization. Biomedical Optics Express, 2014, 5, 4260.	2.9	17
30	Estimation of skin optical parameters for real-time hyperspectral imaging applications. Journal of Biomedical Optics, 2014, 19, 066003.	2.6	63
31	Simulation of light transport in arthritic- and non-arthritic human fingers. , 2014, , .		2
32	Characterization of the bruise healing process using pulsed photothermal radiometry. Proceedings of SPIE, 2013, , .	0.8	2
33	Hyperspectral imaging as a diagnostic tool for chronic skin ulcers. Proceedings of SPIE, 2013, , .	0.8	23
34	Applicability of diffusion approximation in analysis of diffuse reflectance spectra from healthy human skin. Proceedings of SPIE, 2013, , .	0.8	14
35	Combined hyperspectral and 3D characterization of non-healing skin ulcers. , 2013, , .		1
36	A combined 3D and hyperspectral method for surface imaging of wounds. Proceedings of SPIE, 2013, , .	0.8	2

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37	Hyperspectral imaging of bruises in the SWIR spectral region. Proceedings of SPIE, 2012, , .	0.8	16
38	Intercomparison of EMCCD- and sCMOS-based imaging spectrometers for biomedical applications in low-light conditions. Proceedings of SPIE, 2012, , .	0.8	4
39	Hyperspectral imaging as a tool for fluorescence imaging and characterization of skin bruises. , 2012, , .		0
40	Low-light hyperspectral imager for characterization of biological samples based on an sCMOS image sensor. Proceedings of SPIE, 2011, , .	0.8	0
41	UV doses and skin effects during psoriasis climate therapy. Proceedings of SPIE, 2011, , .	0.8	0
42	Hyperspectral characterization of fluorophore diffusion in human skin using a sCMOS based hyperspectral camera. , 2011, , .		2
43	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
44	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
45	Hyperspectral imaging of atherosclerotic plaques in vitro. Journal of Biomedical Optics, 2011, 16, 026011.	2.6	36
46	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
47	Hyperspectral low-light camera for imaging of biological samples. , 2010, , .		2
48	The Optics of Bruising. , 2010, , 825-858.		2
49	Responses to hexyl 5-aminolevulinate-induced photodynamic treatment in rat bladder cancer model. Proceedings of SPIE, 2010, , .	0.8	0
50	Hyperspectral imaging of blood perfusion and chromophore distribution in skin. Proceedings of SPIE, 2009, , .	0.8	4
51	Hyperspectral characterization of atherosclerotic plaques. Proceedings of SPIE, 2009, , .	0.8	0
52	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
53	In vitro study on methemoglobin formation in erythrocytes following hexyl-aminolevulinate induced photodynamic therapy. , 2007, , .		4
54	In vivo hyperspectral imaging of traumatic skin injuries in a porcine model. , 2007, , .		9

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55	Skin changes following minor trauma. Lasers in Surgery and Medicine, 2007, 39, 403-413.	2.1	43
56	Biomechanical characterization of soft tissue injuries. , 2007, , .		0
57	Optical spectroscopy by 5-aminolevulinic acid hexylester induced photodynamic treatment in rat bladder cancer. , 2006, , .		0
58	Subcutaneous transport of extravascular blood. , 2006, 6078, 40.		0
59	A novel approach to age determination of traumatic injuries by reflectance spectroscopy. Lasers in Surgery and Medicine, 2006, 38, 277-289.	2.1	71
60	Hyperspectral imaging of bruised skin. , 2006, , .		32
61	Performance of diffusion theory vs. Monte Carlo methods. , 2005, , .		5
62	Characterization of atherosclerotic plaque by reflection spectroscopy and thermography: a comparison. , 2005, , .		2
63	Performance of Diffusion Theory vs Monte Carlo Methods. , 2005, , ThB3.		3
64	Optical classification of bruises. , 2004, , .		10
65	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
66	Methemoglobin formation during laser induced photothermolysis of vascular skin lesions. Lasers in Surgery and Medicine, 2004, 34, 414-419.	2.1	105
67	Cooling efficiency of cryogen spray during laser therapy of skin. Lasers in Surgery and Medicine, 2003, 32, 137-142.	2.1	31
68	Optical diagnostics of liver pathology. , 2003, , .		1
69	<title>Optical properties of human blood as a function of temperature</title>. , 2002, 4609, 20.		20
70	Sequential cryogen spraying for heat flux control at the skin surface. , 2001, 4244, 74.		15
71	Simulated color: a diagnostic tool for skin lesions like port-wine stain. , 2001, , .		2
72	Can hyperspectral imaging be used to map corrosion products on outdoor bronze sculptures?. Journal of Spectral Imaging, 0, , .	0.0	13