

Kristen Kelly

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

2,829
citations

32
h-index

48
g-index

140
ext. papers

3,278
ext. citations

3.2
avg, IF

4.94
L-index

#	Paper	IF	Citations
125	Cryogen spray cooling in combination with nonablative laser treatment of facial rhytides. <i>Archives of Dermatology</i> , 1999 , 135, 691-4		172
124	An overview of clinical and experimental treatment modalities for port wine stains. <i>Journal of the American Academy of Dermatology</i> , 2012 , 67, 289-304	4.5	131
123	Prevention and treatment of skin aging. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1067, 323-316.5		121
122	Optical clearing of in vivo human skin: implications for light-based diagnostic imaging and therapeutics. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 83-5	3.6	95
121	Description and analysis of treatments for port-wine stain birthmarks. <i>Archives of Facial Plastic Surgery</i> , 2005 , 7, 287-94		87
120	Active skin cooling in conjunction with laser dermatologic surgery. <i>Seminars in Cutaneous Medicine and Surgery</i> , 2000 , 19, 253-66	1.4	80
119	Comparing the effectiveness of 585-nm vs 595-nm wavelength pulsed dye laser treatment of port wine stains in conjunction with cryogen spray cooling. <i>Lasers in Surgery and Medicine</i> , 2002 , 31, 352-8	3.6	77
118	Distinguishing between benign and malignant melanocytic nevi by in vivo multiphoton microscopy. <i>Cancer Research</i> , 2014 , 74, 2688-97	10.1	70
117	What is nonablative photorejuvenation of human skin?. <i>Seminars in Cutaneous Medicine and Surgery</i> , 2002 , 21, 238-50	1.4	69
116	In Vivo Multiphoton Microscopy of Basal Cell Carcinoma. <i>JAMA Dermatology</i> , 2015 , 151, 1068-74	5.1	68
115	Isotretinoin and Timing of Procedural Interventions: A Systematic Review With Consensus Recommendations. <i>JAMA Dermatology</i> , 2017 , 153, 802-809	5.1	58
114	Imaging mitochondrial dynamics in human skin reveals depth-dependent hypoxia and malignant potential for diagnosis. <i>Science Translational Medicine</i> , 2016 , 8, 367ra169	17.5	57
113	Quality of life in adults with facial port-wine stains. <i>Journal of the American Academy of Dermatology</i> , 2017 , 76, 695-702	4.5	55
112	Confocal microscopy study of nerves and blood vessels in untreated and treated port wine stains: preliminary observations. <i>Dermatologic Surgery</i> , 2004 , 30, 892-7	1.7	51
111	Treatment of port-wine stain birthmarks using the 1.5-msec pulsed dye laser at high fluences in conjunction with cryogen spray cooling. <i>Dermatologic Surgery</i> , 2002 , 28, 309-13	1.7	51
110	Combined photodynamic and photothermal induced injury enhances damage to in vivo model blood vessels. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 407-13	3.6	49
109	Quantitative fluorescence imaging of protoporphyrin IX through determination of tissue optical properties in the spatial frequency domain. <i>Journal of Biomedical Optics</i> , 2011 , 16, 126013	3.5	48

108	Microvascular blood flow dynamics associated with photodynamic therapy, pulsed dye laser irradiation and combined regimens. <i>Lasers in Surgery and Medicine</i> , 2006 , 38, 532-9	3.6	48
107	Characterization of port wine stain skin erythema and melanin content using cross-polarized diffuse reflectance imaging. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 174-81	3.6	48
106	Er:YAG laser skin resurfacing using repetitive long-pulse exposure and cryogen spray cooling: I. Histological study. <i>Lasers in Surgery and Medicine</i> , 2001 , 28, 121-30	3.6	47
105	An overview of three promising mechanical, optical, and biochemical engineering approaches to improve selective photothermolysis of refractory port wine stains. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 486-506	4.7	46
104	Nonablative laser and light rejuvenation: the newest approach to photodamaged skin. <i>Archives of Facial Plastic Surgery</i> , 2001 , 3, 230-5		41
103	In vivo multiphoton-microscopy of picosecond-laser-induced optical breakdown in human skin. <i>Lasers in Surgery and Medicine</i> , 2017 , 49, 555-562	3.6	40
102	Enhanced port-wine stain lightening achieved with combined treatment of selective photothermolysis and imiquimod. <i>Journal of the American Academy of Dermatology</i> , 2012 , 66, 634-41	4.5	40
101	Q-switched ruby laser treatment of a congenital melanocytic nevus. <i>Dermatologic Surgery</i> , 1999 , 25, 274-67		40
100	Can topically applied optical clearing agents increase the epidermal damage threshold and enhance therapeutic efficacy?. <i>Lasers in Surgery and Medicine</i> , 2004 , 35, 93-5	3.6	39
99	Wide-field functional imaging of blood flow and hemoglobin oxygen saturation in the rodent dorsal window chamber. <i>Microvascular Research</i> , 2011 , 82, 199-209	3.7	38
98	Spatial frequency domain imaging of port wine stain biochemical composition in response to laser therapy: a pilot study. <i>Lasers in Surgery and Medicine</i> , 2012 , 44, 611-21	3.6	37
97	Blood flow dynamics after laser therapy of port wine stain birthmarks. <i>Lasers in Surgery and Medicine</i> , 2009 , 41, 563-71	3.6	36
96	In vivo measurements of cutaneous melanin across spatial scales: using multiphoton microscopy and spatial frequency domain spectroscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 066005	3.5	33
95	Cryogen spray cooling and pulsed dye laser treatment of cutaneous hemangiomas. <i>Annals of Plastic Surgery</i> , 2001 , 46, 577-83	1.7	33
94	Evaluation of cryogen spray cooling exposure on in vitro model human skin. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 146-54	3.6	32
93	Treatment of hypertrophic scars and keloids with a radiofrequency device: a study of collagen effects. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 343-9	3.6	31
92	Noninvasive clinical assessment of port-wine stain birthmarks using current and future optical imaging technology: a review. <i>British Journal of Dermatology</i> , 2012 , 167, 1215-23	4	30
91	A randomized, controlled, double-blind study of light emitting diode photomodulation for the prevention of radiation dermatitis in patients with breast cancer. <i>Dermatologic Surgery</i> , 2010 , 36, 1921-7 ^{1.7}		30

90	The importance of long-term monitoring to evaluate the microvascular response to light-based therapies. <i>Journal of Investigative Dermatology</i> , 2008 , 128, 485-8	4.3	30
89	Vascular effects of photodynamic and pulsed dye laser therapy protocols. <i>Lasers in Surgery and Medicine</i> , 2008 , 40, 644-50	3.6	30
88	A 1,320-nm Nd: YAG laser for improving the appearance of onychomycosis. <i>Dermatologic Surgery</i> , 2014 , 40, 1356-60	1.7	27
87	Angiogenesis in cutaneous disease: part I. <i>Journal of the American Academy of Dermatology</i> , 2009 , 61, 921-42; quiz 943-4	4.5	27
86	An Analysis of Laser Therapy for the Treatment of Nonmelanoma Skin Cancer. <i>Dermatologic Surgery</i> , 2017 , 43, 615-624	1.7	26
85	Confocal Microscopy Study of Nerves and Blood Vessels in Untreated and Treated Port Wine Stains. <i>Dermatologic Surgery</i> , 2004 , 30, 892-897	1.7	26
84	Combined benzoporphyrin derivative monoacid ring photodynamic therapy and pulsed dye laser for port wine stain birthmarks. <i>Photodiagnosis and Photodynamic Therapy</i> , 2009 , 6, 195-9	3.5	24
83	Er:YAG laser skin resurfacing using repetitive long-pulse exposure and cryogen spray cooling: II. Theoretical analysis. <i>Lasers in Surgery and Medicine</i> , 2001 , 28, 131-7	3.6	22
82	Hyperspectral imaging in automated digital dermoscopy screening for melanoma. <i>Lasers in Surgery and Medicine</i> , 2019 , 51, 214-222	3.6	20
81	A two-temperature model for selective photothermolysis laser treatment of port wine stains. <i>Applied Thermal Engineering</i> , 2013 , 59, 41-51	5.8	20
80	Synergistic photodynamic and photothermal treatment of port-wine stain?. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 80-2	3.6	20
79	Laser Treatment of Nongenital Verrucae: A Systematic Review. <i>JAMA Dermatology</i> , 2016 , 152, 1025-34	5.1	20
78	Use of erythema index imaging for systematic analysis of port wine stain skin response to laser therapy. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 186-91	3.6	19
77	Preclinical in vivo evaluation of NPe6-mediated photodynamic therapy on normal vasculature. <i>Lasers in Surgery and Medicine</i> , 2012 , 44, 158-62	3.6	18
76	Angiographic optical coherence tomography imaging of hemangiomas and port wine birthmarks. <i>Lasers in Surgery and Medicine</i> , 2018 , 50, 718	3.6	17
75	Separating melanin from hemodynamics in nevi using multimode hyperspectral dermoscopy and spatial frequency domain spectroscopy. <i>Journal of Biomedical Optics</i> , 2016 , 21, 114001	3.5	17
74	A comparison of microvascular responses to visible and near-infrared lasers. <i>Lasers in Surgery and Medicine</i> , 2014 , 46, 479-87	3.6	17
73	Wide-field spatial mapping of in vivo tattoo skin optical properties using modulated imaging. <i>Lasers in Surgery and Medicine</i> , 2009 , 41, 442-53	3.6	17

72	Update on the Clinical Management of Port Wine Stains. <i>Lasers in Medical Science</i> , 2000 , 15, 220-226	3.1	17
71	Intraoperative, real-time monitoring of blood flow dynamics associated with laser surgery of port wine stain birthmarks. <i>Lasers in Surgery and Medicine</i> , 2015 , 47, 469-75	3.6	16
70	Optimization of laser treatment safety in conjunction with cryogen spray cooling. <i>Archives of Dermatology</i> , 2003 , 139, 1372-3		16
69	Microarray analysis of port wine stains before and after pulsed dye laser treatment. <i>Lasers in Surgery and Medicine</i> , 2013 , 45, 67-75	3.6	15
68	Effects of motion on optical properties in the spatial frequency domain. <i>Journal of Biomedical Optics</i> , 2011 , 16, 126009	3.5	15
67	Cutaneous effects of cryogen spray cooling on in vivo human skin. <i>Dermatologic Surgery</i> , 2006 , 32, 1007-12		15
66	Novel model for evaluation of epidermal preservation and dermal collagen remodeling following photorejuvenation of human skin. <i>Lasers in Surgery and Medicine</i> , 2003 , 32, 115-9	3.6	15
65	In vivo isolation of the effects of melanin from underlying hemodynamics across skin types using spatial frequency domain spectroscopy. <i>Journal of Biomedical Optics</i> , 2016 , 21, 57001	3.5	14
64	Skin model surface temperatures during single and multiple cryogen spurts used in laser dermatologic surgery. <i>Lasers in Surgery and Medicine</i> , 2005 , 36, 141-6	3.6	14
63	Topical Delivery of Carvedilol Loaded Nano-Transfersomes for Skin Cancer Chemoprevention. <i>Pharmaceutics</i> , 2020 , 12,	6.4	14
62	Talaporfin sodium-mediated photodynamic therapy alone and in combination with pulsed dye laser on cutaneous vasculature. <i>Journal of Investigative Dermatology</i> , 2015 , 135, 302-304	4.3	13
61	Portable (handheld) clinical device for quantitative spectroscopy of skin, utilizing spatial frequency domain reflectance techniques. <i>Review of Scientific Instruments</i> , 2017 , 88, 094302	1.7	13
60	The Role of Laser Speckle Imaging in Port-Wine Stain Research: Recent Advances and Opportunities. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 2016,	3.8	12
59	Quantitative near infrared spectroscopic analysis of Q-Switched Nd:YAG treatment of generalized argyria. <i>Lasers in Surgery and Medicine</i> , 2013 , 45, 15-21	3.6	12
58	Generalized chrysiasis improved with pulsed dye laser. <i>Dermatologic Surgery</i> , 2009 , 35, 538-42	1.7	11
57	Evaluation of a long pulsed 1064-nm Nd:YAG laser for improvement in appearance of cellulite. <i>Journal of Cosmetic and Laser Therapy</i> , 2012 , 14, 139-44	1.8	11
56	Microvascular Effects of Pulsed Dye Laser in Combination With Oxymetazoline. <i>Lasers in Surgery and Medicine</i> , 2020 , 52, 17-22	3.6	11
55	A case report of bullous pemphigoid associated with a melanoma and review of the literature. <i>Melanoma Research</i> , 2017 , 27, 65-67	3.3	9

54	Angiogenesis in cutaneous disease: part II. <i>Journal of the American Academy of Dermatology</i> , 2009 , 61, 945-58; quiz 959-60	4.5	9
53	Current Treatment Options for Port Wine Stain Birthmarks. <i>Photodiagnosis and Photodynamic Therapy</i> , 2007 , 4, 147-148	3.5	9
52	Method using in vivo quantitative spectroscopy to guide design and optimization of low-cost, compact clinical imaging devices: emulation and evaluation of multispectral imaging systems. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-12	3.5	9
51	The horizon for treating cutaneous vascular lesions. <i>Seminars in Cutaneous Medicine and Surgery</i> , 2012 , 31, 98-104	1.4	8
50	Optical coherence tomography for in vitro monitoring of wound healing after laser irradiation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 222-226	3.8	8
49	Evaluation of single versus multiple cryogen spray cooling spurts on in vitro model human skin. <i>Lasers in Medical Science</i> , 2005 , 20, 80-6	3.1	8
48	Solar Ultraviolet Exposure in Individuals Who Perform Outdoor Sport Activities. <i>Sports Medicine - Open</i> , 2020 , 6, 42	6.1	8
47	Immunohistochemistry of angiogenesis mediators before and after pulsed dye laser treatment of angiomas. <i>Lasers in Surgery and Medicine</i> , 2012 , 44, 205-10	3.6	7
46	Hemoporphin-mediated photodynamic therapy on normal vasculature: implications for phototherapy of port-wine stain birthmarks. <i>Journal of Clinical and Translational Research</i> , 2016 , 2, 107-111	1.1	7
45	A pilot clinical trial of a near-infrared laser vaccine adjuvant: safety, tolerability, and cutaneous immune cell trafficking. <i>FASEB Journal</i> , 2019 , 33, 3074-3081	0.9	7
44	Further investigation of pigmentary changes after alexandrite laser hair removal in conjunction with cryogen spray cooling. <i>Dermatologic Surgery</i> , 2004 , 30, 581-2	1.7	6
43	Revisiting the History and Importance of Phototherapy in Dermatology. <i>JAMA Dermatology</i> , 2017 , 153, 435	5.1	5
42	Thermal responses of ex vivo human skin during multiple cryogen spurts and 1,450 nm laser pulses. <i>Lasers in Surgery and Medicine</i> , 2006 , 38, 137-41	3.6	5
41	State-of-the-art lasers and light treatments for vascular lesions: from red faces to vascular malformations. <i>Seminars in Cutaneous Medicine and Surgery</i> , 2017 , 36, 207-212	1.4	5
40	Consensus Statement for the Management and Treatment of Port-Wine Birthmarks in Sturge-Weber Syndrome. <i>JAMA Dermatology</i> , 2021 , 157, 98-104	5.1	5
39	Histologic changes associated with talaporfin sodium-mediated photodynamic therapy in rat skin. <i>Lasers in Surgery and Medicine</i> , 2017 , 49, 767-772	3.6	4
38	Targeted narrowband intense pulsed light on cutaneous vasculature. <i>Lasers in Surgery and Medicine</i> , 2015 , 47, 651-7	3.6	4
37	Clinical studies of pigmented lesions in human skin by using a multiphoton tomograph 2013 ,		4

36	Numerical Prediction of the Intracellular ICE Formation Zone during Cryosurgery on a Nodular Basal Cell Carcinoma Using Liquid Nitrogen Spray. <i>International Journal of Spray and Combustion Dynamics</i> , 2012 , 4, 341-379	1.3	4
35	Light-based treatment of pediatric port-wine birthmarks. <i>Pediatric Dermatology</i> , 2021 , 38, 351-358	1.9	4
34	Non-invasive optical biopsy by multiphoton microscopy identifies the live morphology of common melanocytic nevi. <i>Pigment Cell and Melanoma Research</i> , 2020 , 33, 869-877	4.5	3
33	Further Investigation of Pigmentary Changes After Alexandrite Laser Hair Removal in Conjunction With Cryogen Spray Cooling. <i>Dermatologic Surgery</i> , 2004 , 30, 581-582	1.7	3
32	Multimode optical dermoscopy (SkinSpect) analysis for skin with melanocytic nevus 2016 ,		3
31	In vivo results using photothermal tomography for imaging cutaneous blood vessels 2003 ,		2
30	Laser Treatment of Hypopigmentation in Scars: A Review. <i>Dermatologic Surgery</i> , 2021 , 48,	1.7	2
29	Effect of long-term phosphodiesterase-5 inhibitor use on refractory lymphatic malformations in adult and teen patients. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2021 , 9, 258-261	3.2	2
28	12-Hydroxyeicosatetraenoic acid levels are increased in actinic keratoses and squamous cell carcinoma. <i>Journal of the American Academy of Dermatology</i> , 2018 , 79, 1152-1153	4.5	2
27	Simultaneous Blood Flow Measurement and Dermoscopy of Skin Lesions Using Dual-Mode Dermoscope. <i>Scientific Reports</i> , 2018 , 8, 16941	4.9	2
26	Consensus Statement for the Management and Treatment of Sturge-Weber Syndrome: Neurology, Neuroimaging, and Ophthalmology Recommendations. <i>Pediatric Neurology</i> , 2021 , 121, 59-66	2.9	2
25	15 In vivo multiphoton microscopy of human skin 2018 , 287-300		1
24	Diffuse optical spectroscopy of melanoma-simulating silicone phantoms 2009 ,		1
23	Development of Spatial Frequency Domain Instrument for the Quantification of Layer Specific Optical Properties of Pigmented Lesions 2012 ,		1
22	A LED based spatial frequency domain imaging system for optimization of photodynamic therapy of Basal Cell Carcinoma (BCC) 2010 ,		1
21	Topical carvedilol delivery prevents UV-induced skin cancer with negligible systemic absorption. <i>International Journal of Pharmaceutics</i> , 2021 , 611, 121302	6.5	1
20	Recent advances in multiphoton microscopy for clinical skin imaging 2019 ,		1
19	Lasers in the Treatment of Vascular Lesions 2009 , 135-153		1

18	Dermoscopic features of infantile hemangioma during treatment with topical propranolol. <i>JAAD International</i> , 2020 , 1, 121-123	0.9	1
17	Lasers, Birthmarks, and Sturge-Weber Syndrome: A Pilot Survey. <i>Lasers in Surgery and Medicine</i> , 2021 , 53, 104-108	3.6	1
16	Assessing the Outcomes of Focused Heating of the Skin by a Long-Pulsed 1064 nm Laser with an Integrated Scanner, Infrared Thermal Guidance, and Optical Coherence Tomography. <i>Lasers in Surgery and Medicine</i> , 2021 , 53, 806-814	3.6	1
15	A Clinical Perspective on the Automated Analysis of Reflectance Confocal Microscopy in Dermatology. <i>Lasers in Surgery and Medicine</i> , 2021 , 53, 1011-1019	3.6	1
14	Vascular characteristics of port wine birthmarks as measured by dynamic optical coherence tomography. <i>Journal of the American Academy of Dermatology</i> , 2021 , 85, 1537-1543	4.5	1
13	Research Techniques Made Simple: Emerging Imaging Technologies for Noninvasive Optical Biopsy of Human Skin.. <i>Journal of Investigative Dermatology</i> , 2022 , 142, 1243-1252.e1	4.3	1
12	Clinical presentation and outcomes after endovascular management in a mixed pediatric and adult Klippel-Trenaunay syndrome population. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2021 , 9, 1495-1503.e1	3.2	0
11	Development of a core outcome domain set for clinical research on capillary malformations (the COSCAM project). <i>Journal of the European Academy of Dermatology and Venereology</i> , 2021 , 35, 1888-1895	4.6	0
10	Analysis of port-wine birthmark vascular characteristics by location: Utility of optical coherence tomography mapping. <i>Lasers in Surgery and Medicine</i> , 2021 ,	3.6	0
9	Science and peace. <i>Lasers in Surgery and Medicine</i> , 2019 , 51, 5-7	3.6	
8	Vascular Laser and Light Treatments 2019 , 243-258		
7	A case of photodistributed multicentric reticulohistiocytosis: correlation with multiphoton microscopy imaging. <i>JDDG - Journal of the German Society of Dermatology</i> , 2018 , 16, 781-783	1.2	
6	Laser hair removal: progress marches on. <i>Dermatologic Surgery</i> , 2010 , 36, 1671	1.7	
5	Cutaneous Effects of Cryogen Spray Cooling on In Vivo Human Skin. <i>Dermatologic Surgery</i> , 2006 , 32, 1007-1012		
4	Evaluation of vascular effects after photodynamic and photothermal therapies using benzoporphyrin derivative monoacid ring A on a rodent dorsal skinfold model 2005 , 5686, 14		
3	Prevention and Treatment of Skin Aging 2005 , 29-50		
2	Treatment of Port-Wine Stain Birthmarks Using the 1.5-msec Pulsed Dye Laser at High Fluences in Conjunction with Cryogen Spray Cooling. <i>Dermatologic Surgery</i> , 2002 , 28, 309-313	1.7	
1	Skin Aging: Pathogenesis, Prevention and Treatment 2006 , 175-192		

