Kristen Kelly

List of Publications by Year in descending order

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101496 155592 3,700 140 36 55 citations g-index h-index papers 140 140 140 2452 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Cryogen Spray Cooling in Combination With Nonablative Laser Treatment of Facial Rhytides. Archives of Dermatology, 1999, 135, 691-4.	1.7	204
2	An overview of clinical and experimental treatment modalities for port wine stains. Journal of the American Academy of Dermatology, 2012, 67, 289-304.e29.	0.6	179
3	Prevention and Treatment of Skin Aging. Annals of the New York Academy of Sciences, 2006, 1067, 323-331.	1.8	141
4	Description and Analysis of Treatments for Port-wine Stain Birthmarks. Archives of Facial Plastic Surgery, 2005, 7, 287-294.	0.8	113
5	Optical clearing of in vivo human skin: Implications for light-based diagnostic imaging and therapeutics. Lasers in Surgery and Medicine, 2004, 34, 83-85.	1.1	105
6	Active skin cooling in conjunction with laser dermatologic surgery. Seminars in Cutaneous Medicine and Surgery, 2000, 19, 253-266.	1.6	104
7	In Vivo Multiphoton Microscopy of Basal Cell Carcinoma. JAMA Dermatology, 2015, 151, 1068.	2.0	102
8	Distinguishing between Benign and Malignant Melanocytic Nevi by <i>In Vivo</i> Multiphoton Microscopy. Cancer Research, 2014, 74, 2688-2697.	0.4	95
9	Comparing the effectiveness of 585-nm vs. 595-nm wavelength pulsed dye laser treatment of port wine stains in conjunction with cryogen spray cooling. Lasers in Surgery and Medicine, 2002, 31, 352-358.	1.1	94
10	Isotretinoin and Timing of Procedural Interventions. JAMA Dermatology, 2017, 153, 802.	2.0	93
11	Imaging mitochondrial dynamics in human skin reveals depth-dependent hypoxia and malignant potential for diagnosis. Science Translational Medicine, 2016, 8, 367ra169.	5.8	82
12	Quality of life in adults with facial port-wine stains. Journal of the American Academy of Dermatology, 2017, 76, 695-702.	0.6	76
13	What is nonablative photorejuvenation of human skin?. Seminars in Cutaneous Medicine and Surgery, 2002, 21, 238-250.	1.6	72
14	Quantitative fluorescence imaging of protoporphyrin IX through determination of tissue optical properties in the spatial frequency domain. Journal of Biomedical Optics, 2011, 16, 126013.	1.4	63
15	Confocal Microscopy Study of Nerves and Blood Vessels in Untreated and Treated Port Wine Stains: Preliminary Observations. Dermatologic Surgery, 2004, 30, 892-897.	0.4	61
16	Treatment of Port-Wine Stain Birthmarks Using the 1.5-msec Pulsed Dye Laser at High Fluences in Conjunction with Cryogen Spray Cooling. Dermatologic Surgery, 2002, 28, 309-313.	0.4	59
17	Combined photodynamic and photothermal induced injury enhances damage to in vivo model blood vessels. Lasers in Surgery and Medicine, 2004, 34, 407-413.	1.1	59
18	Characterization of port wine stain skin erythema and melanin content using cross-polarized diffuse reflectance imaging. Lasers in Surgery and Medicine, 2004, 34, 174-181.	1.1	58

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19	Enhanced port-wine stain lightening achieved with combined treatment of selective photothermolysis and imiquimod. Journal of the American Academy of Dermatology, 2012, 66, 634-641.	0.6	54
20	An Overview of Three Promising Mechanical, Optical, and Biochemical Engineering Approaches to Improve Selective Photothermolysis of Refractory Port Wine Stains. Annals of Biomedical Engineering, 2012, 40, 486-506.	1.3	54
21	<i>In vivo</i> measurements of cutaneous melanin across spatial scales: using multiphoton microscopy and spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2015, 20, 066005.	1.4	53
22	In vivo multiphotonâ€microscopy of picosecondâ€laserâ€induced optical breakdown in human skin. Lasers in Surgery and Medicine, 2017, 49, 555-562.	1.1	52
23	Microvascular blood flow dynamics associated with photodynamic therapy, pulsed dye laser irradiation and combined regimens. Lasers in Surgery and Medicine, 2006, 38, 532-539.	1.1	51
24	Er:YAG laser skin resurfacing using repetitive long-pulse exposure and cryogen spray cooling: I. Histological study. Lasers in Surgery and Medicine, 2001, 28, 121-130.	1.1	50
25	Spatial frequency domain imaging of port wine stain biochemical composition in response to laser therapy: A pilot study. Lasers in Surgery and Medicine, 2012, 44, 611-621.	1.1	47
26	Nonablative Laser and Light Rejuvenation. Archives of Facial Plastic Surgery, 2001, 3, 230-235.	0.8	44
27	Can topically applied optical clearing agents increase the epidermal damage threshold and enhance therapeutic efficacy?. Lasers in Surgery and Medicine, 2004, 35, 93-95.	1.1	44
28	Blood flow dynamics after laser therapy of port wine stain birthmarks. Lasers in Surgery and Medicine, 2009, 41, 563-571.	1.1	44
29	An Analysis of Laser Therapy for the Treatment of Nonmelanoma Skin Cancer. Dermatologic Surgery, 2017, 43, 615-624.	0.4	44
30	Q-Switched Ruby Laser Treatment of a Congenital Melanocytic Nevus. Dermatologic Surgery, 1999, 25, 274-276.	0.4	42
31	Cryogen Spray Cooling and Pulsed Dye Laser Treatment of Cutaneous Hemangiomas. Annals of Plastic Surgery, 2001, 46, 577-583.	0.5	42
32	Evaluation of cryogen spray cooling exposure on in vitro model human skin. Lasers in Surgery and Medicine, 2004, 34, 146-154.	1.1	42
33	Wide-field functional imaging of blood flow and hemoglobin oxygen saturation in the rodent dorsal window chamber. Microvascular Research, 2011, 82, 199-209.	1.1	42
34	The Importance of Long-Term Monitoring to Evaluate the Microvascular Response to Light-Based Therapies. Journal of Investigative Dermatology, 2008, 128, 485-488.	0.3	41
35	Noninvasive clinical assessment of portâ€wine stain birthmarks using current and future optical imaging technology: a review. British Journal of Dermatology, 2012, 167, 1215-1223.	1.4	40
36	Angiogenesis in cutaneous disease: Part I. Journal of the American Academy of Dermatology, 2009, 61, 921-942.	0.6	38

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37	Treatment of hypertrophic scars and keloids with a radiofrequency device: A study of collagen effects. Lasers in Surgery and Medicine, 2005, 37, 343-349.	1.1	37
38	A Randomized, Controlled, Double-Blind Study of Light Emitting Diode Photomodulation for the Prevention of Radiation Dermatitis in Patients with Breast Cancer. Dermatologic Surgery, 2010, 36, 1921-1927.	0.4	37
39	Vascular effects of photodynamic and pulsed dye laser therapy protocols. Lasers in Surgery and Medicine, 2008, 40, 644-650.	1.1	34
40	Laser Treatment of Nongenital Verrucae. JAMA Dermatology, 2016, 152, 1025.	2.0	34
41	A 1,320-nm Nd. Dermatologic Surgery, 2014, 40, 1356-1360.	0.4	31
42	Topical Delivery of Carvedilol Loaded Nano-Transfersomes for Skin Cancer Chemoprevention. Pharmaceutics, 2020, 12, 1151.	2.0	31
43	Consensus Statement for the Management and Treatment of Port-Wine Birthmarks in Sturge-Weber Syndrome. JAMA Dermatology, 2021, 157, 98.	2.0	31
44	Confocal Microscopy Study of Nerves and Blood Vessels in Untreated and Treated Port Wine Stains. Dermatologic Surgery, 2004, 30, 892-897.	0.4	29
45	Combined benzoporphyrin derivative monoacid ring photodynamic therapy and pulsed dye laser for port wine stain birthmarks. Photodiagnosis and Photodynamic Therapy, 2009, 6, 195-199.	1.3	29
46	Hyperspectral imaging in automated digital dermoscopy screening for melanoma. Lasers in Surgery and Medicine, 2019, 51, 214-222.	1.1	27
47	Er:YAG laser skin resurfacing using repetitive long-pulse exposure and cryogen spray cooling: II. Theoretical analysis. Lasers in Surgery and Medicine, 2001, 28, 131-137.	1.1	26
48	Intraoperative, realâ€time monitoring of blood flow dynamics associated with laser surgery of port wine stain birthmarks. Lasers in Surgery and Medicine, 2015, 47, 469-475.	1.1	24
49	<i>In vivo</i> isolation of the effects of melanin from underlying hemodynamics across skin types using spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2016, 21, 057001.	1.4	24
50	Update on the Clinical Management of Port Wine Stains. Lasers in Medical Science, 2000, 15, 220-226.	1.0	23
51	A two-temperature model for selective photothermolysis laser treatment of port wine stains. Applied Thermal Engineering, 2013, 59, 41-51.	3.0	23
52	Synergistic photodynamic and photothermal treatment of port-wine stain?. Lasers in Surgery and Medicine, 2004, 34, 80-82.	1.1	22
53	Use of erythema index imaging for systematic analysis of port wine stain skin response to laser therapy. Lasers in Surgery and Medicine, 2005, 37, 186-191.	1.1	22
54	Preclinical in vivo evaluation of Npe6â€mediated photodynamic therapy on normal vasculature. Lasers in Surgery and Medicine, 2012, 44, 158-162.	1.1	22

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55	Solar Ultraviolet Exposure in Individuals Who Perform Outdoor Sport Activities. Sports Medicine - Open, 2020, 6, 42.	1.3	22
56	Wideâ€field spatial mapping of in vivo tattoo skin optical properties using modulated imaging. Lasers in Surgery and Medicine, 2009, 41, 442-453.	1.1	21
57	Separating melanin from hemodynamics in nevi using multimode hyperspectral dermoscopy and spatial frequency domain spectroscopy. Journal of Biomedical Optics, 2016, 21, 114001.	1.4	20
58	Portable (handheld) clinical device for quantitative spectroscopy of skin, utilizing spatial frequency domain reflectance techniques. Review of Scientific Instruments, 2017, 88, 094302.	0.6	20
59	Microarray analysis of port wine stains before and after pulsed dye laser treatment. Lasers in Surgery and Medicine, 2013, 45, 67-75.	1.1	19
60	A comparison of microvascular responses to visible and nearâ€infrared lasers. Lasers in Surgery and Medicine, 2014, 46, 479-487.	1.1	19
61	Consensus Statement for the Management and Treatment of Sturge-Weber Syndrome: Neurology, Neuroimaging, and Ophthalmology Recommendations. Pediatric Neurology, 2021, 121, 59-66.	1.0	19
62	Optimization of Laser Treatment Safety in Conjunction With Cryogen Spray Cooling. Archives of Dermatology, 2003, 139, 1372-3.	1.7	19
63	Angiographic optical coherence tomography imaging of hemangiomas and port wine birthmarks. Lasers in Surgery and Medicine, 2018, 50, 718-726.	1.1	18
64	Cutaneous Effects of Cryogen Spray Cooling on In Vivo Human Skin. Dermatologic Surgery, 2006, 32, 1007-1012.	0.4	17
65	Talaporfin Sodium–Mediated Photodynamic Therapy Alone and in Combination with Pulsed Dye Laser on Cutaneous Vasculature. Journal of Investigative Dermatology, 2015, 135, 302-304.	0.3	17
66	Novel model for evaluation of epidermal preservation and dermal collagen remodeling following photorejuvenation of human skin. Lasers in Surgery and Medicine, 2003, 32, 115-119.	1.1	16
67	Skin model surface temperatures during single and multiple cryogen spurts used in laser dermatologic surgery. Lasers in Surgery and Medicine, 2005, 36, 141-146.	1.1	16
68	Evaluation of a long pulsed 1064-nm Nd:YAG laser for improvement in appearance of cellulite. Journal of Cosmetic and Laser Therapy, 2012, 14, 139-144.	0.3	16
69	The Role of Laser Speckle Imaging in Port-Wine Stain Research: Recent Advances and Opportunities. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 307-318.	1.9	16
70	Effects of motion on optical properties in the spatial frequency domain. Journal of Biomedical Optics, 2011, 16, 126009.	1.4	15
71	Microvascular Effects of Pulsed Dye Laser in Combination With Oxymetazoline. Lasers in Surgery and Medicine, 2020, 52, 17-22.	1.1	15
72	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. Journal of Biomedical Optics, 2018, 23, 1.	1.4	15

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73	Research Techniques Made Simple: Emerging Imaging Technologies for Noninvasive Optical Biopsy of Human Skin. Journal of Investigative Dermatology, 2022, 142, 1243-1252.e1.	0.3	14
74	Current treatment options for port wine stain birthmarks. Photodiagnosis and Photodynamic Therapy, 2007, 4, 147-148.	1.3	13
75	Generalized Chrysiasis Improved with Pulsed Dye Laser. Dermatologic Surgery, 2009, 35, 538-542.	0.4	13
76	Angiogenesis in cutaneous disease: Part II. Journal of the American Academy of Dermatology, 2009, 61, 945-958.	0.6	13
77	Quantitative near infrared spectroscopic analysis of Qâ€Switched Nd:YAG treatment of generalized argyria. Lasers in Surgery and Medicine, 2013, 45, 15-21.	1.1	13
78	Hemoporfin-mediated photodynamic therapy on normal vasculature: implications for phototherapy of port-wine stain birthmarks. Journal of Clinical and Translational Research, 2016, 2, 107-111.	0.3	13
79	A pilot clinical trial of a nearâ€infrared laser vaccine adjuvant: safety, tolerability, and cutaneous immune cell trafficking. FASEB Journal, 2019, 33, 3074-3081.	0.2	12
80	Nonâ€invasive optical biopsy by multiphoton microscopy identifies the live morphology of common melanocytic nevi. Pigment Cell and Melanoma Research, 2020, 33, 869-877.	1.5	11
81	Evaluation of single versus multiple cryogen spray cooling spurts on in vitro model human skin. Lasers in Medical Science, 2005, 20, 80-86.	1.0	10
82	The Horizon for Treating Cutaneous Vascular Lesions. Seminars in Cutaneous Medicine and Surgery, 2012, 31, 98-104.	1.6	10
83	Revisiting the History and Importance of Phototherapy in Dermatology. JAMA Dermatology, 2017, 153, 435.	2.0	10
84	A case report of bullous pemphigoid associated with a melanoma and review of the literature. Melanoma Research, 2017, 27, 65-67.	0.6	10
85	12/1/2017State-of-the-art lasers and light treatments for vascular lesions: from red faces to vascular malformations. Seminars in Cutaneous Medicine and Surgery, 2017, 36, 207-212.	1.6	9
86	Topical carvedilol delivery prevents UV-induced skin cancer with negligible systemic absorption. International Journal of Pharmaceutics, 2022, 611, 121302.	2.6	9
87	Optical coherence tomography for in vitro monitoring of wound healing after laser irradiation. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 222-226.	1.9	8
88	Further Investigation of Pigmentary Changes After Alexandrite Laser Hair Removal in Conjunction With Cryogen Spray Cooling. Dermatologic Surgery, 2004, 30, 581-582.	0.4	8
89	Thermal responses of ex vivo human skin during multiple cryogen spurts and 1,450 nm laser pulses. Lasers in Surgery and Medicine, 2006, 38, 137-141.	1.1	8
90	A Clinical Perspective on the Automated Analysis of Reflectance Confocal Microscopy in Dermatology. Lasers in Surgery and Medicine, 2021, 53, 1011-1019.	1.1	8

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91	Laser Treatment of Hypopigmentation in Scars: A Review. Dermatologic Surgery, 2022, 48, 201-206.	0.4	8
92	Immunohistochemistry of angiogenesis mediators before and after pulsed dye laser treatment of angiomas. Lasers in Surgery and Medicine, 2012, 44, 205-210.	1.1	7
93	Targeted narrowband intense pulsed light on cutaneous vasculature. Lasers in Surgery and Medicine, 2015, 47, 651-657.	1.1	7
94	Simultaneous Blood Flow Measurement and Dermoscopy of Skin Lesions Using Dual-Mode Dermascope. Scientific Reports, 2018, 8, 16941.	1.6	7
95	Vascular characteristics of port wine birthmarks as measured by dynamic optical coherence tomography. Journal of the American Academy of Dermatology, 2021, 85, 1537-1543.	0.6	7
96	Lightâ€based treatment of pediatric portâ€wine birthmarks. Pediatric Dermatology, 2021, 38, 351-358.	0.5	6
97	Analysis of portâ€wine birthmark vascular characteristics by location: Utility of optical coherence tomography mapping. Lasers in Surgery and Medicine, 2022, 54, 98-104.	1.1	6
98	Clinical studies of pigmented lesions in human skin by using a multiphoton tomograph., 2013,,.		5
99	Numerical Prediction of the Intracellular ICE Formation Zone during Cryosurgery on a Nodular Basal Cell Carcinoma Using Liquid Nitrogen Spray. International Journal of Spray and Combustion Dynamics, 2012, 4, 341-379.	0.4	4
100	Multimode optical dermoscopy (SkinSpect) analysis for skin with melanocytic nevus. Proceedings of SPIE, $2016, \ldots$	0.8	4
101	Histologic changes associated with talaporfin sodiumâ€mediated photodynamic therapy in rat skin. Lasers in Surgery and Medicine, 2017, 49, 767-772.	1.1	4
102	Effect of long-term phosphodiesterase-5 inhibitor use on refractory lymphatic malformations in adult and teen patients. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2021, 9, 258-261.	0.9	4
103	Further Investigation of Pigmentary Changes After Alexandrite Laser Hair Removal in Conjunction With Cryogen Spray Cooling. Dermatologic Surgery, 2004, 30, 581-582.	0.4	3
104	Assessing the Outcomes of Focused Heating of the Skin by a Longâ€Pulsed 1064 nm Laser with an Integrated Scanner, Infrared Thermal Guidance, and Optical Coherence Tomography. Lasers in Surgery and Medicine, 2021, 53, 806-814.	1.1	3
105	In vivo results using photothermal tomography for imaging cutaneous blood vessels., 2003,,.		2
106	12-Hydroxyeicosatetraenoic acid levels are increased in actinic keratoses and squamous cell carcinoma. Journal of the American Academy of Dermatology, 2018, 79, 1152-1153.	0.6	2
107	Dermoscopic features of infantile hemangioma during treatment with topical propranolol. JAAD International, 2020, 1, 121-123.	1.1	2
108	Lasers, Birthmarks, and Sturgeâ€Weber Syndrome: A Pilot Survey. Lasers in Surgery and Medicine, 2021, 53, 104-108.	1.1	2

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109	Clinical presentation and outcomes after endovascular management in a mixed pediatric and adult Klippel-Trenaunay syndrome population. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2021, 9, 1495-1503.e1.	0.9	2
110	Development of a core outcome domain set for clinical research on capillary malformations (the) Tj ETQq 000 rgl 1888 - 1895 .	3T /Overlo 1.3	ck 10 Tf 50 2
111	Lasers in the Treatment of Vascular Lesions. , 2009, , 135-153.		2
112	Evaluation of vascular effects after photodynamic and photothermal therapies using benzoporphyrin derivative monoacid ring A on a rodent dorsal skinfold model., 2005, 5686, 14.		1
113	Diffuse optical spectroscopy of melanoma-simulating silicone phantoms. Proceedings of SPIE, 2009, , .	0.8	1
114	Special Section Guest Editorial: Translational biophotonics. Journal of Biomedical Optics, 2016, 21, 124002.	1.4	1
115	15 In vivo multiphoton microscopy of human skin. , 2018, , 287-300.		1
116	Evaluation of Sub-Zero and Residence Times After Continuous Versus Multiple Intermittent Cryogen Spray Cooling Exposure on Human Skin Phantom. , 2004, , .		1
117	Development of Spatial Frequency Domain Instrument for the Quantification of Layer Specific Optical Properties of Pigmented Lesions. , 2012, , .		1
118	A LED based spatial frequency domain imaging system for optimization of photodynamic therapy of Basal Cell Carcinoma (BCC). , 2010 , , .		1
119	Recent advances in multiphoton microscopy for clinical skin imaging. , 2019, , .		1
120	Skin Aging: Pathogenesis, Prevention and Treatment. , 2006, , 175-192.		1
121	Treatment of Port-Wine Stain Birthmarks Using the 1.5-msec Pulsed Dye Laser at High Fluences in Conjunction with Cryogen Spray Cooling. Dermatologic Surgery, 2002, 28, 309-313.	0.4	0
122	Dynamic study of irradiated artificial skin using OCT. , 2003, , .		0
123	Prevention and Treatment of Skin Aging. , 2005, , 29-50.		0
124	Cutaneous Effects of Cryogen Spray Cooling on In Vivo Human Skin. Dermatologic Surgery, 2006, 32, 1007-1012.	0.4	0
125	Blood flow dynamics after laser therapy of port wine stain birthmarks. Proceedings of SPIE, 2009, , .	0.8	0
126	Commentary. Dermatologic Surgery, 2010, 36, 1671.	0.4	0

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127	Noninvasive blood flow mapping for surgical guidance of vascular birthmarks. , 2010, , .		O
128	Motion correction in spatial frequency domain imaging; optical property determination in pigmented lesions. Proceedings of SPIE, $2011, , .$	0.8	0
129	If I had a magic wandWish list of a dermatologist (Conference Presentation)., 2016,,.		O
130	Handheld spatial frequency domain spectrographic imager for depth-sensitive, quantitative spectroscopy of skin tissue. Proceedings of SPIE, 2017, , .	0.8	0
131	In-vivo multiphoton microscopy (MPM) of laser-induced optical breakdown (LIOB) in human skin (Conference Presentation). , 2017, , .		0
132	A case of photodistributed multicentric reticulohistiocytosis: correlation with multiphoton microscopy imaging. JDDG - Journal of the German Society of Dermatology, 2018, 16, 781-783.	0.4	0
133	Science and peace. Lasers in Surgery and Medicine, 2019, 51, 5-7.	1.1	0
134	Vascular Laser and Light Treatments. , 2019, , 243-258.		0
135	1.7-micron optical coherence tomography angiography for characterization of skin cancer. , 2021, , .		O
136	Mapping out lesion heterogeneity on (sub)cm scale with a fast large area multiphoton exoscope (FLAME). , 2021, , .		0
137	Rapid Therapy Evaluation Using Chronic, Wide-Field Optical Imaging of Microvascular Blood Flow Dynamics. , 2007, , .		0
138	Chronic, Wide-Field Optical Imaging of Blood Flow Dynamics. , 2007, , .		0
139	Blood flow quantification of biopsied skin lesions using a laser speckle imaging dermatoscope (Conference Presentation). , 2018, , .		O

High-speed, high-resolution mesoscopic multiphoton microscopy of human skin (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222