

# Jesse W Wilson

## List of Publications by Year in descending order

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53  
papers

775  
citations

623188

14  
h-index

525886

27  
g-index

53  
all docs

53  
docs citations

53  
times ranked

742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Invited Review Article: Pump-probe microscopy. Review of Scientific Instruments, 2016, 87, 031101.	0.6	178
2	In vivo and ex vivo epi-mode pump-probe imaging of melanin and microvasculature. Biomedical Optics Express, 2011, 2, 1576.	1.5	76
3	Phasor analysis for nonlinear pump-probe microscopy. Optics Express, 2012, 20, 17082.	1.7	44
4	Ultrafast phase and amplitude pulse shaping with a single, one-dimensional, high-resolution phase mask.. Optics Express, 2007, 15, 8979.	1.7	40
5	Near-Infrared Excited State Dynamics of Melanins: The Effects of Iron Content, Photo-Damage, Chemical Oxidation, and Aggregate Size. Journal of Physical Chemistry A, 2014, 118, 993-1003.	1.1	38
6	Cross-phase modulation imaging. Optics Letters, 2012, 37, 800.	1.7	34
7	Cross-phase modulation spectral shifting: nonlinear phase contrast in a pump-probe microscope. Biomedical Optics Express, 2012, 3, 854.	1.5	33
8	Nonlinear Microscopy of Eumelanin and Pheomelanin with Subcellular Resolution. Journal of Investigative Dermatology, 2013, 133, 1822-1826.	0.3	29
9	Pump-probe imaging of pigmented cutaneous melanoma primary lesions gives insight into metastatic potential. Biomedical Optics Express, 2015, 6, 3631.	1.5	27
10	Comparing in vivo pump-probe and multiphoton fluorescence microscopy of melanoma and pigmented lesions. Journal of Biomedical Optics, 2014, 20, 051012.	1.4	25
11	Imaging Microscopic Pigment Chemistry in Conjunctival Melanocytic Lesions Using Pump-Probe Laser Microscopy. , 2013, 54, 6867.		23
12	Pump-Probe Microscopic Imaging of Jurassic-Aged Eumelanin. Journal of Physical Chemistry Letters, 2013, 4, 1924-1927.	2.1	21
13	Quantifying melanin spatial distribution using pump-probe microscopy and a 2-D morphological autocorrelation transformation for melanoma diagnosis. Journal of Biomedical Optics, 2013, 18, 120502.	1.4	21
14	Calibration of liquid crystal ultrafast pulse shaper with common-path spectral interferometry and application to coherent control with a covariance matrix adaptation evolutionary strategy. Review of Scientific Instruments, 2008, 79, 033103.	0.6	17
15	Optical clearing of archive-compatible paraffin embedded tissue for multiphoton microscopy. Biomedical Optics Express, 2012, 3, 2752.	1.5	15
16	Dispersion balancing of variable-delay monolithic pulse splitters. Applied Optics, 2007, 46, 5967.	2.1	14
17	Transient absorption imaging of hemes with 2-color, independently tunable visible-wavelength ultrafast source. Biomedical Optics Express, 2017, 8, 2807.	1.5	13
18	Synthetic temporal aperture coherent molecular phase spectroscopy. Chemical Physics Letters, 2008, 463, 300-304.	1.2	12

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19	Phase measurement of coherent Raman vibrational spectroscopy with chirped spectral holography. <i>Optics Letters</i> , 2008, 33, 2116.	1.7	12
20	Distinguishing bulk and interface modulation of optical third harmonic generation due to coherent optical phonon excitation. <i>Chemical Physics Letters</i> , 2010, 490, 97-101.	1.2	12
21	Dual-wavelength pump-probe microscopy analysis of melanin composition. <i>Scientific Reports</i> , 2016, 6, 36871.	1.6	12
22	Rapid Birefringent Delay Scanning for Coherent Multiphoton Impulsive Raman Pump-Probe Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 130-139.	1.9	10
23	Flexible digital signal processing architecture for narrowband and spread-spectrum lock-in detection in multiphoton microscopy and time-resolved spectroscopy. <i>Review of Scientific Instruments</i> , 2015, 86, 033707.	0.6	10
24	Pump-probe nonlinear phase dispersion spectroscopy. <i>Optics Express</i> , 2013, 21, 9353.	1.7	9
25	Sensitive and Selective Detection of Low-Frequency Vibrational Modes Through a Phase-Shifting Fourier Transform Spectroscopy. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 777-782.	1.0	7
26	Transient absorption spectroscopy and imaging of redox in muscle mitochondria. <i>Biomedical Optics Express</i> , 2022, 13, 2103.	1.5	7
27	In vivo pump-probe microscopy of melanoma and pigmented lesions. <i>Proceedings of SPIE</i> , 2012, , .	0.8	6
28	Phase noise limited frequency shift impulsive Raman spectroscopy. <i>APL Photonics</i> , 2021, 6, .	3.0	6
29	Coherence-modulated third harmonic generation for vibrational spectroscopy: a theoretical treatment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 1875.	0.9	5
30	Comparison of pump-probe and hyperspectral imaging in unstained histology sections of pigmented lesions. <i>Biomedical Optics Express</i> , 2017, 8, 3882.	1.5	4
31	Error estimation and enhanced stiffness sensitivity in contact resonance force microscopy with a multiple arbitrary frequency lock-in amplifier (MAFLIA). <i>Measurement Science and Technology</i> , 2020, 31, 115009.	1.4	4
32	High-Repetition-Rate Transient Absorption Spectroscopy of Respiratory Supercomplexes. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1404-1412.	1.2	3
33	In vivo pump-probe microscopy of melanoma: characterizing shifts in excited state photodynamics with respect to invasiveness. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
34	Optical clearing of archive-compatible paraffin embedded tissue for multiphoton microscopy: erratum. <i>Biomedical Optics Express</i> , 2013, 4, 219.	1.5	1
35	Separating higher-order nonlinearities in transient absorption microscopy. , 2015, , .		1
36	Pump-probe microscopy of respiratory chain pigments: towards non-fluorescent label-free metabolic imaging. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1

#	ARTICLE	IF	CITATIONS
37	DR-RINS: Digital real-time relative intensity noise suppressor for pump-probe spectroscopy and microscopy. Review of Scientific Instruments, 2021, 92, 023704.	0.6	1
38	Adaptive noise canceling for transient absorption microscopy. Journal of Biomedical Optics, 2020, 25, .	1.4	1
39	Pump-probe spectroscopy and imaging of heme proteins: temperature effects and data analysis. , 2017, , .		1
40	Polarization, phase and amplitude control of ultrafast laser pulses with a single linear spatial light modulator. , 2008, , .		0
41	Coherence modulated third harmonic generation for winterface vibrational spectroscopy. , 2010, , .		0
42	Adapting phasor analysis for nonlinear pump-probe microscopy. , 2013, , .		0
43	Optical clearing and multiphoton imaging of paraffin-embedded specimens. Proceedings of SPIE, 2013, , .	0.8	0
44	Quantifying melanin distribution using pump-probe microscopy and a 2D morphological autocorrelation transformation for melanoma diagnosis. , 2014, , .		0
45	Enhancing Pigmented or Transparent Tissue Imaging with Laser Pulse Shaping. , 2015, , .		0
46	Real-time digital signal processing in multiphoton and time-resolved microscopy. Proceedings of SPIE, 2016, , .	0.8	0
47	Real-Time Time-Resolved Optical Measurements using a Digital Adaptive Filter. , 2018, , .		0
48	Lighthouse ultrafast spectroscopy: high speed scanning with a spinning birefringent delay crystal. , 2011, , .		0
49	Imaging the Distribution of Melanin in Human Skin Lesions with Pump-Probe Microscopy. , 2011, , .		0
50	Pump-Probe Imaging of Melanin Identifies Metastatic Potential of Melanoma. , 2012, , .		0
51	Nonlinear Pump-Probe Techniques for Multi-Contrast Microscopy. , 2013, , .		0
52	Melanin Imaging Using Nonlinear Pump-Probe Microscopy in Fixed Tissue Samples. , 2014, , .		0
53	Melanin-targeted nonlinear microscopy for label-free molecular diagnosis and staging. , 2016, , .		0