

GaÃ«l Latour

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

820
citations

516710

16
h-index

552781

26
g-index

35
all docs

35
docs citations

35
times ranked

923
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo structural imaging of the cornea by polarization-resolved second harmonic microscopy. <i>Biomedical Optics Express</i> , 2012, 3, 1.	2.9	123
2	Polarization-resolved Second Harmonic microscopy in anisotropic thick tissues. <i>Optics Express</i> , 2010, 18, 19339.	3.4	108
3	Determination of collagen fibril size via absolute measurements of second-harmonic generation signals. <i>Nature Communications</i> , 2014, 5, 4920.	12.8	107
4	In situ 3D characterization of historical coatings and wood using multimodal nonlinear optical microscopy. <i>Optics Express</i> , 2012, 20, 24623.	3.4	50
5	Correlative nonlinear optical microscopy and infrared nanoscopy reveals collagen degradation in altered parchments. <i>Scientific Reports</i> , 2016, 6, 26344.	3.3	49
6	Structural and optical properties of wood and wood finishes studied using optical coherence tomography: application to an 18th century Italian violin. <i>Applied Optics</i> , 2009, 48, 6485.	2.1	40
7	Simultaneous microstructural and mechanical characterization of human corneas at increasing pressure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 60, 93-105.	3.1	40
8	Circular dichroism second-harmonic generation microscopy probes the polarity distribution of collagen fibrils. <i>Optica</i> , 2020, 7, 1469.	9.3	36
9	Stromal striae: a new insight into corneal physiology and mechanics. <i>Scientific Reports</i> , 2017, 7, 13584.	3.3	35
10	Theoretical, numerical and experimental study of geometrical parameters that affect anisotropy measurements in polarization-resolved SHG microscopy. <i>Optics Express</i> , 2015, 23, 9313.	3.4	26
11	In-place molecular preservation of cellulose in 5,000-year-old archaeological textiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19670-19676.	7.1	26
12	Hyperglycemia-Induced Abnormalities in Rat and Human Corneas: The Potential of Second Harmonic Generation Microscopy. <i>PLoS ONE</i> , 2012, 7, e48388.	2.5	22
13	Determination of the Absorption and Scattering Coefficients of Pigments: Application to the Identification of the Components of Pigment Mixtures. <i>Applied Spectroscopy</i> , 2009, 63, 604-610.	2.2	20
14	Micro-spectrometry in the visible range with full-field optical coherence tomography for single absorbing layers. <i>Optics Communications</i> , 2010, 283, 4810-4815.	2.1	19
15	Human graft cornea and laser incisions imaging with micrometer scale resolution full-field optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	17
16	Implementation of artifact-free circular dichroism SHG imaging of collagen. <i>Optics Express</i> , 2019, 27, 22685.	3.4	16
17	Quantitative structural imaging of keratoconic corneas using polarization-resolved SHG microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 4163.	2.9	15
18	Optical coherence tomography: non-destructive imaging and spectral information of pigments. , 2007, , .		14

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19	Multimodal Highlighting of Structural Abnormalities in Diabetic Rat and Human Corneas. Translational Vision Science and Technology, 2013, 2, 3.	2.2	14
20	Easy xeno-free and feeder-free method for isolating and growing limbal stromal and epithelial stem cells of the human cornea. PLoS ONE, 2017, 12, e0188398.	2.5	13
21	Color modeling of stratified pictorial layers using the radiative transfer equation solved by the auxiliary function method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 3045.	1.5	7
22	Study of varnish layers with optical coherence tomography in both visible and infrared domains. , 2009, , .		7
23	Noninvasive quantitative assessment of collagen degradation in parchments by polarization-resolved SHG microscopy. Science Advances, 2021, 7, .	10.3	7
24	Light scattering from human corneal grafts: Bulk and surface contribution. Journal of Applied Physics, 2010, 108, 053104.	2.5	3
25	Correlative multiphoton microscopy and infrared nanospectroscopy of label-free collagen. , 2019, , .		2
26	In vivo multiphoton imaging of the cornea: polarization-resolved second harmonic generation from stromal collagen. Proceedings of SPIE, 2012, , .	0.8	1
27	Multiphoton microscopy: an efficient tool for in-situ study of cultural heritage artifacts. Proceedings of SPIE, 2013, , .	0.8	1
28	Forward versus backward polarization-resolved SHG imaging of collagen structure in tissues. Proceedings of SPIE, 2016, , .	0.8	1
29	Full-field optical coherence tomography"An educational setup for an undergraduate lab. American Journal of Physics, 2020, 88, 1132-1139.	0.7	1
30	Optical designs for multimodal nonlinear microendoscope for optical biopsy. , 2013, , .		0
31	Second Harmonic Generation quantitative measurements on collagen fibrils through correlation to electron microscopy. Proceedings of SPIE, 2015, , .	0.8	0
32	Structural imaging of keratoconic human corneas using polarization-resolved Second Harmonic Generation microscopy. , 2021, , .		0
33	Probing the sub-micrometer scale polarity distribution of out-of-plane collagen fibrils in biological tissues by circular-dichroism SHG microscopy. , 2021, , .		0
34	Polarization-resolved SHG imaging of lamellar organization in keratoconic human corneas. , 2021, , .		0