

# Florian KlÄmpfl

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

538  
citations

759233

12  
h-index

677142

22  
g-index

63  
all docs

63  
docs citations

63  
times ranked

619  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of the optical properties on the determination of capillary diameters. Scientific Reports, 2022, 12, 270.	3.3	1
2	In vivo multi spectral colonoscopy in mice. Scientific Reports, 2022, 12, .	3.3	1
3	Remote Photoacoustic Sensing Using Single Speckle Analysis by an Ultra-Fast Four Quadrant Photo-Detector. Sensors, 2021, 21, 2109.	3.8	2
4	Ultra-fast remote photoacoustic imaging with a non-scanning speckle-based setup. OSA Continuum, 2021, 4, 1135.	1.8	3
5	Proof of Principle for Direct Reconstruction of Qualitative Depth Information from Turbid Media by a Single Hyper Spectral Image. Sensors, 2021, 21, 2860.	3.8	2
6	Random laser as a potential tool for the determination of the scattering coefficient. Biomedical Optics Express, 2021, 12, 5439.	2.9	9
7	Analysis of diffuse reflectance spectroscopy by means of Bayesian inference and separation of the parameters for scattering strength and spectral dependence of the scattering. Journal of Biophotonics, 2021, 14, e202100205.	2.3	2
8	Determination of the diameter of simulated human capillaries using shifted positionâ€diffuse reflectance imaging. Journal of Biophotonics, 2021, 14, e202000465.	2.3	4
9	Direct measurement of the scattering coefficient. Biomedical Optics Express, 2021, 12, 320.	2.9	12
10	Numerical Aperture for Photon Detection within Shifted Position-Diffuse Reflectance Imaging. , 2021, , .		0
11	Lateral resolution and imaging depth of shifted position-diffuse reflectance imaging. , 2021, , .		0
12	A quantitative evaluation of the use of medical lasers in German hospitals. Journal of Biophotonics, 2020, 13, e201900238.	2.3	5
13	Towards shifted position-diffuse reflectance imaging of anatomically correctly scaled human microvasculature. Scientific Reports, 2020, 10, 17391.	3.3	4
14	All-optical, an ultra-thin endoscopic photoacoustic sensor using multi-mode fiber. Scientific Reports, 2020, 10, 9142.	3.3	9
15	Factors influencing the accuracy for tissue classification in multi spectral in-vivo endoscopy for the upper gastro-internal tract. Scientific Reports, 2020, 10, 3546.	3.3	2
16	Physical Fundamentals. , 2020, , 3-8.		0
17	Remote photoacoustic tomography using diode-array and speckle-analysis. , 2020, , .		0
18	Calibration routine for incoherent optical fiber bundles for medical ultra-high spatial resolution fiber spectroscopy. , 2020, , .		0

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19	Diffuse reflectance spectroscopy and Raman spectroscopy for label-free molecular characterization and automated detection of human cartilage and subchondral bone. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127121.	7.8	9
20	Contact-free endoscopic photoacoustic sensing using speckle analysis. <i>Journal of Biophotonics</i> , 2019, 12, e201900130.	2.3	7
21	Remote photoacoustic sensing using speckle-analysis. <i>Scientific Reports</i> , 2019, 9, 1057.	3.3	30
22	Spectral Spatial Variation. <i>Scientific Reports</i> , 2019, 9, 7512.	3.3	3
23	Investigation of random lasing as a feedback mechanism for tissue differentiation during laser surgery. <i>Biomedical Optics Express</i> , 2019, 10, 807.	2.9	26
24	Direct reconstruction of qualitative depth information from turbid media by a single hyper spectral image. , 2019, , .		0
25	Acoustic differentiation of dental soft and hard tissues using remote speckle-analysis during Er:YAG ablation. , 2019, , .		0
26	Remote speckle-sensing for improved differentiation between different types of tissues. , 2019, , .		0
27	Model for the description of remote photoacoustic sensing using speckle-analysis. , 2019, , .		0
28	Measurement of optical properties of pig esophagus by using a modified spectrometer set-up. <i>Journal of Biophotonics</i> , 2018, 11, e201600187.	2.3	7
29	LIBS based Tissue Differentiation for Er:YAG Surgical Laser. , 2018, , .		1
30	Laser beam melting 3D printing of Ti6Al4V based porous structured dental implants: fabrication, biocompatibility analysis and photoelastic study. <i>Scientific Reports</i> , 2017, 7, 45360.	3.3	57
31	Towards non-contact photo-acoustic endoscopy using speckle pattern analysis. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
32	Tissue Ablation and Laser Surgery. <i>Journal of Biophotonics</i> , 2017, 10, 1238-1239.	2.3	0
33	Development of a hyperspectral imaging technique for monitoring laser-based material processing. <i>Journal of Laser Applications</i> , 2017, 29, .	1.7	9
34	The differentiation of oral soft and hard tissues using laser induced breakdown spectroscopy – a prospect for tissue specific laser surgery. <i>Journal of Biophotonics</i> , 2017, 10, 1250-1261.	2.3	24
35	<i>in vivo</i> multispectral video endoscopy towards <i>in vivo</i> hyperspectral video endoscopy. <i>Journal of Biophotonics</i> , 2017, 10, 553-564.	2.3	30
36	Influence of vapor on hyperspectral imaging for monitoring laser-based material processing. , 2017, , .		0

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37	Laser-induced Breakdown Spectroscopy (LIBS) based tissue type mapping of ex-vivo soft tissues - A prospect for tissue specific Laser surgery. , 2017, , .		0
38	Investigation of Laser Induced Breakdown Spectroscopy (LIBS) for the Differentiation of Nerve and Gland Tissueâ€”A Possible Application for a Laser Surgery Feedback Control Mechanism. Plasma Science and Technology, 2016, 18, 654-660.	1.5	11
39	Fabrication of a turbid optofluidic phantom device with tunable $\lambda$ and $\mu$ s to simulate cutaneous vascular perfusion. Scientific Reports, 2016, 6, 30567.	3.3	4
40	Investigation of the differentiation of <i>ex vivo</i> nerve and fat tissues using laser-induced breakdown spectroscopy (LIBS): Prospects for tissue-specific laser surgery. Journal of Biophotonics, 2016, 9, 1021-1032.	2.3	33
41	[INVITED] Evaluation of process observation features for laser metal welding. Optics and Laser Technology, 2016, 80, 77-83.	4.6	4
42	Remote photoacoustic tomography using speckle sensing with a high-speed camera. , 2016, , .		1
43	Experimental approach for quantification of fluid dynamics in laser metal welding. Journal of Laser Applications, 2015, 27, .	1.7	23
44	A novel microfluidic model to mimic the turbid nature and microvasculature of cutaneous tissue for optical imaging experiments. Proceedings of SPIE, 2015, , .	0.8	0
45	Improved cancer diagnostics by different image processing techniques on OCT images. Proceedings of SPIE, 2015, , .	0.8	1
46	Extension of depth-resolved reconstruction of attenuation coefficients in optical coherence tomography for slim samples. , 2015, , .		5
47	Qualitative tissue differentiation by analysing the intensity ratios of atomic emission lines using laser induced breakdown spectroscopy (LIBS): prospects for a feedback mechanism for surgical laser systems. Journal of Biophotonics, 2015, 8, 153-161.	2.3	36
48	Analysis of the correlation between plasma plume and keyhole behavior in laser metal welding for the modeling of the keyhole geometry. Optics and Lasers in Engineering, 2015, 64, 32-41.	3.8	51
49	Preparation of a skin equivalent phantom with interior micron-scale vessel structures for optical imaging experiments. Biomedical Optics Express, 2014, 5, 3140.	2.9	12
50	Laser induced breakdown spectroscopy for bone and cartilage differentiation - ex vivo study as a prospect for a laser surgery feedback mechanism. Biomedical Optics Express, 2014, 5, 4013.	2.9	35
51	Novel method for early signs of clinical shock detection by monitoring blood capillary/vessel spatial pattern. Journal of Biophotonics, 2014, 7, 841-849.	2.3	8
52	Simulation of Light Propagation within Glass Fiber Filled Thermoplastics for Laser Transmission Welding. Physics Procedia, 2014, 56, 1198-1207.	1.2	6
53	Mapping the microvascular and the associated absolute values of oxy-hemoglobin concentration through turbid media via local off-set diffuse optical imaging. Proceedings of SPIE, 2014, , .	0.8	1
54	Experimental and Numerical Analysis of Gas Dynamics in the Keyhole During Laser Metal Welding. Physics Procedia, 2014, 56, 1268-1276.	1.2	21

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55	Ultrashort Pulse Laser Cutting of Intraocular Lens Polymers. Journal of Laser Micro Nanoengineering, 2014, 9, 103-107.	0.1	8
56	Detection of Weld Defects by High Speed Imaging of the Vapor Plume. Physics Procedia, 2013, 41, 539-543.	1.2	13
57	Ultrafast Laser Surface Structuring of Intraocular Lens Polymers. Journal of Laser Micro Nanoengineering, 2013, 8, 51-55.	0.1	4
58	Dependence of the Capillary/Vessel Spatial Pattern Estimated by Measuring Diffuse Reflectance Spectra on the Hemoglobin Concentration Level. , 2013, , .		0
59	Dependence of the Capillary/Vessel Spatial Pattern Estimated by Measuring Diffuse Reflectance Spectra on the Hemoglobin Concentration Level. , 2013, , .		0
60	Irradiation system for two-photon induced activation of agents in novel intraocular lenses. Physics Procedia, 2010, 5, 665-670.	1.2	1
61	Automated online planning of localized laser process parameters using simulated annealing. Production Engineering, 2008, 2, 171-178.	2.3	0
62	Planning the use of high-power excimer laser for psoriasis treatment. , 2008, , 349-354.		0
63	Irradiation planning for automated treatment of psoriasis with a high-power excimer laser. , 2006, , .		1