

# Erwin Alles

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

638  
citations

840776

11  
h-index

752698

20  
g-index

44  
all docs

44  
docs citations

44  
times ranked

485  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonâ€Nanotubeâ€PDMS Composite Coatings on Optical Fibers for Allâ€Optical Ultrasound Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 8390-8396.	14.9	120
2	Source Camera Identification for Heavily JPEG Compressed Low Resolution Still Images*. <i>Journal of Forensic Sciences</i> , 2009, 54, 628-638.	1.6	96
3	Polydimethylsiloxane Composites for Optical Ultrasound Generation and Multimodality Imaging. <i>Advanced Functional Materials</i> , 2018, 28, 1704919.	14.9	81
4	Pencil beam all-optical ultrasound imaging. <i>Biomedical Optics Express</i> , 2016, 7, 3696.	2.9	54
5	All-Optical Rotational Ultrasound Imaging. <i>Scientific Reports</i> , 2019, 9, 5576.	3.3	47
6	A directional fibre optic ultrasound transmitter based on a reduced graphene oxide and polydimethylsiloxane composite. <i>Applied Physics Letters</i> , 2019, 114, 113505.	3.3	30
7	Video-rate all-optical ultrasound imaging. <i>Biomedical Optics Express</i> , 2018, 9, 3481.	2.9	25
8	A reconfigurable all-optical ultrasound transducer array for 3D endoscopic imaging. <i>Scientific Reports</i> , 2017, 7, 1208.	3.3	23
9	Adaptive Light Modulation for Improved Resolution and Efficiency in All-Optical Pulse-Echo Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 83-90.	3.0	21
10	Source Camera Identification for Low Resolution Heavily Compressed Images. , 2008, , .		17
11	Photoacoustic clutter reduction using short-lag spatial coherence weighted imaging. , 2014, , .		17
12	Versatile and scalable fabrication method for laser-generated focused ultrasound transducers. <i>Optics Letters</i> , 2019, 44, 6005.	3.3	11
13	Dynamic physiological temperature and pressure sensing with phase-resolved low-coherence interferometry. <i>Optics Express</i> , 2019, 27, 5641.	3.4	11
14	Freehand and video-rate all-optical ultrasound imaging. <i>Ultrasonics</i> , 2021, 116, 106514.	3.9	10
15	Source Density Apodization: Image Artifact Suppression Through Source Pitch Nonuniformity. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 497-504.	3.0	9
16	Neural Network Kalman Filtering for 3-D Object Tracking From Linear Array Ultrasound Data. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1691-1702.	3.0	9
17	Deep Learning for Instrumented Ultrasonic Tracking: From Synthetic Training Data to <i>In Vivo</i> Application. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 543-552.	3.0	7
18	Robotic Control of a Multi-Modal Rigid Endoscope Combining Optical Imaging with All-Optical Ultrasound. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
19	Flexible and directional fibre optic ultrasound transmitters using photostable dyes. OSA Continuum, 2021, 4, 2488.	1.8	6
20	Acoustical characterisation of carbon nanotube-loaded polydimethylsiloxane used for optical ultrasound generation. , 2017, , .		5
21	Real-Time, Video-Rate and Depth-Resolved Imaging of Radio-Frequency Ablation Using All-Optical Ultrasound. , 2018, , .		4
22	Large area all-optical ultrasound imaging using robotic control. , 2019, , .		4
23	Reconstructing transducer surface motion by inverse extrapolation of measured pressure wavefields. , 2010, , .		3
24	Performance characterisation of a new clinical spectroscopic epiphotoacoustic scanner. , 2013, , .		3
25	Iterative reconstruction of the transducer surface velocity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 954-962.	3.0	3
26	Adaptive All-Optical Ultrasound Imaging Through Temporal Modulation of Excitation Light. , 2018, , .		3
27	A casting-based fabrication process for a high-frequency piezo-electric linear array. , 2012, , .		2
28	Modelling and measurement of laser-generated focused ultrasound: Can interventional transducers achieve therapeutic effects?. Journal of the Acoustical Society of America, 2021, 149, 2732-2742.	1.1	2
29	Robot-Assisted Optical Ultrasound Scanning. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 948-958.	3.2	2
30	Single Sensor Interventional All-Optical Ultrasound Imaging: Beam Characteristics and Bandwidth Performance. , 2021, , .		2
31	An axial array for three-dimensional intravascular ultrasound. , 2012, , .		1
32	Non-invasive molecular profiling of cancer using photoacoustic imaging of functionalized gold nanorods. , 2014, , .		1
33	Fabrication and characterisation of miniature parabolic acoustic lenses. , 2015, , .		1
34	Real-time and Freehand Multimodal Imaging: Combining White Light Endoscopy with All-Optical Ultrasound. , 2020, , .		1
35	Simulating ultrasonic pulse echo registration including multiple scattering, attenuation and nonlinearity. , 2013, , .		0
36	In vivo photoacoustic oxygen saturation imaging without the need for fluence estimation. , 2014, , .		0

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37	Notice of Removal: Acoustical characterisation of carbon nanotube-loaded polydimethylsiloxane used for optical ultrasound generation. , 2017, , .		0
38	Source density apodisation in 2D all-optical ultrasound imaging. , 2017, , .		0
39	Reconfigurable 1.5D Source Arrays for Improved Elevational Focussing in All-Optical Ultrasound Imaging. , 2018, , .		0
40	Microwave Oscillator Ultrasound Receivers. , 2018, , .		0
41	Real-time 2D all-optical ultrasound imaging with a dynamically reconfigurable imaging aperture (Conference Presentation). , 2019, , .		0
42	Direct Model-Based Inversion for Improved Freehand Optical Ultrasound Imaging. , 2021, , .		0