Bastien Arnal

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4743782/publications.pdf

Version: 2024-02-01

42 papers	1,024 citations	516215 16 h-index	676716 22 g-index
42 all docs	42 docs citations	42 times ranked	1212 citing authors

#	Article	IF	Citations
1	Adaptive Spatiotemporal SVD Clutter Filtering for Ultrafast Doppler Imaging Using Similarity of Spatial Singular Vectors. IEEE Transactions on Medical Imaging, 2018, 37, 1574-1586.	5.4	203
2	Shear modulus imaging by direct visualization of propagating shear waves with phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 1.	1.4	88
3	Visualizing ultrasonically induced shear wave propagation using phase-sensitive optical coherence tomography for dynamic elastography. Optics Letters, 2014, 39, 838.	1.7	67
4	Monitoring of thermal therapy based on shear modulus changes: II. Shear wave imaging of thermal lesions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1603-1611.	1.7	66
5	Real-time integrated photoacoustic and ultrasound (PAUS) imaging system to guide interventional procedures: ex vivo study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 319-328.	1.7	56
6	Super-resolution photoacoustic imaging via flow-induced absorption fluctuations. Optica, 2017, 4, 1397.	4.8	52
7	Monitoring of thermal therapy based on shear modulus changes: I. shear wave thermometry. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 369-378.	1.7	51
8	Magneto-Optical Nanoparticles for Cyclic Magnetomotive Photoacoustic Imaging. ACS Nano, 2015, 9, 1964-1976.	7.3	50
9	Sono-photoacoustic imaging of gold nanoemulsions: Part I. Exposure thresholds. Photoacoustics, 2015, 3, 3-10.	4.4	50
10	Shear wave elastography using amplitude-modulated acoustic radiation force and phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2015, 20, 016001.	1.4	49
11	Shear wave pulse compression for dynamic elastography using phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 016013.	1.4	47
12	Laser-induced cavitation in nanoemulsion with gold nanospheres for blood clot disruption: in vitro results. Optics Letters, 2014, 39, 2599.	1.7	44
13	Sono-photoacoustic imaging of gold nanoemulsions: Part II. Real time imaging. Photoacoustics, 2015, 3, 11-19.	4.4	42
14	Overcoming the acoustic diffraction limit in photoacoustic imaging by the localization of flowing absorbers. Optics Letters, 2017, 42, 4379.	1.7	33
15	Compensating for visibility artefacts in photoacoustic imaging with a deep learning approach providing prediction uncertainties. Photoacoustics, 2021, 21, 100218.	4.4	31
16	Super-resolution photoacoustic and ultrasound imaging with sparse arrays. Scientific Reports, 2020, 10, 4637.	1.6	21
17	Pulsed Cavitational Ultrasound Softening. JACC Basic To Translational Science, 2017, 2, 372-383.	1.9	16
18	Photoacoustic fluctuation imaging: theory and application to blood flow imaging. Optica, 2020, 7, 1495.	4.8	16

#	Article	IF	Citations
19	Tunable time-reversal cavity for high-pressure ultrasonic pulses generation: A tradeoff between transmission and time compression. Applied Physics Letters, 2012, 101, 064104.	1.5	11
20	Pulsed cavitational ultrasound for non-invasive chordal cutting guided by real-time 3D echocardiography. European Heart Journal Cardiovascular Imaging, 2016, 17, 1101-1107.	0.5	7
21	Clinically translatable ultrasound/photoacoustic imaging for real-time needle biopsy guidance. , 2014, , .		6
22	Shear wave elastography using phase sensitive optical coherence tomography. , 2014, , .		3
23	Optimization of the laser irradiation pattern in a high frame rate integrated photoacoustic / ultrasound (PAUS) imaging system. , 2015, 2015, .		3
24	Magneto-optical nanoparticles for cyclic magnetomotive photoacoustic imaging. Physica C: Superconductivity and Its Applications, 2018, 548, 90-92.	0.6	3
25	Shear wave elastography method combining phase-sensitive optical coherence tomography and coded acoustic radiation force. , 2014, , .		2
26	Amplitude-modulated ultrasound radiation force combined with phase-sensitive optical coherence tomography for shear wave elastography. Proceedings of SPIE, 2015, , .	0.8	2
27	Monitoring of thermal ablation therapy based on shear modulus changes: Shear wave thermometry and shear wave lesion imaging. , 2010, , .		1
28	Experimental reverse time migration for imaging of elasticity changes. , 2010, , .		1
29	Inertial cavitation manipulation in nanoemulsion induced by low frequency acoustic wave with laser irradiation for potential therapeutic applications. , 2013, , .		1
30	Clinically translatable integrated ultrasound and photoacoustic imaging system. , 2014, , .		1
31	Notice of Removal: Pulsed cavitational ultrasound softening: A new non-invasive therapeutic approach of calcified valve stenosis. , 2017, , .		1
32	Monitoring the lesion formation during histotripsy treatment using shear wave imaging. , 2012, , .		0
33	Toric focusing for radiation force applications using a toric lens coupled to a spherically focused transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 2032-2041.	1.7	0
34	Inertial cavitation in theranostic nanoemulsions with simultaneous pulsed laser and low frequency ultrasound excitation. Proceedings of SPIE, 2014, , .	0.8	0
35	Visualization of ultrasonically induced shear wave propagation using phase sensitive optical coherence tomography. , 2014, , .		0
36	Cyclic magnetomotive photoacoustic/ultrasound imaging. Proceedings of SPIE, 2015, , .	0.8	0

#	Article	IF	Citations
37	Real-time sono-photoacoustic imaging of gold nanoemulsions. Proceedings of SPIE, 2015, , .	0.8	0
38	Real-time interleaved photoacoustic/ultrasound (PAUS) imaging for interventional procedure guidance. , 2015, , .		0
39	Notice of Removal: Self-adaptive time reversal cavity for ultrasound therapy through the ribcage. , 2017, , .		0
40	Notice of Removal: Evaluation of a new non-invasive ultrasonic device for venous recanalization: Assessment of feasibility and safety of thrombotripsy at 2.25 MHz in an in vitro model of recent venous thrombosis. , 2017, , .		0
41	3D photoacoustic fluctuation imaging provides visibility artefacts removal and enhanced contrast. Simultaneous implementation with ultrasound doppler imaging. , 2021, , .		0
42	Correcting visibility artefacts in photoacoustic imaging with a deep learning approach. , 2021, , .		0