

Bastien Arnal

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,024
citations

516215

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676716

22
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42
all docs

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docs citations

42
times ranked

1212
citing authors

#	ARTICLE	IF	CITATIONS
1	Compensating for visibility artefacts in photoacoustic imaging with a deep learning approach providing prediction uncertainties. <i>Photoacoustics</i> , 2021, 21, 100218.	4.4	31
2	3D photoacoustic fluctuation imaging provides visibility artefacts removal and enhanced contrast. Simultaneous implementation with ultrasound doppler imaging. , 2021, , .		0
3	Correcting visibility artefacts in photoacoustic imaging with a deep learning approach. , 2021, , .		0
4	Super-resolution photoacoustic and ultrasound imaging with sparse arrays. <i>Scientific Reports</i> , 2020, 10, 4637.	1.6	21
5	Photoacoustic fluctuation imaging: theory and application to blood flow imaging. <i>Optica</i> , 2020, 7, 1495.	4.8	16
6	Adaptive Spatiotemporal SVD Clutter Filtering for Ultrafast Doppler Imaging Using Similarity of Spatial Singular Vectors. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1574-1586.	5.4	203
7	Magneto-optical nanoparticles for cyclic magnetomotive photoacoustic imaging. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 548, 90-92.	0.6	3
8	Pulsed Cavitation Ultrasound Softening. <i>JACC Basic To Translational Science</i> , 2017, 2, 372-383.	1.9	16
9	Notice of Removal: Self-adaptive time reversal cavity for ultrasound therapy through the ribcage. , 2017, , .		0
10	Notice of Removal: Pulsed cavitation ultrasound softening: A new non-invasive therapeutic approach of calcified valve stenosis. , 2017, , .		1
11	Super-resolution photoacoustic imaging via flow-induced absorption fluctuations. <i>Optica</i> , 2017, 4, 1397.	4.8	52
12	Overcoming the acoustic diffraction limit in photoacoustic imaging by the localization of flowing absorbers. <i>Optics Letters</i> , 2017, 42, 4379.	1.7	33
13	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
14	Pulsed cavitation ultrasound for non-invasive chordal cutting guided by real-time 3D echocardiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 1101-1107.	0.5	7
15	Cyclic magnetomotive photoacoustic/ultrasound imaging. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
16	Optimization of the laser irradiation pattern in a high frame rate integrated photoacoustic / ultrasound (PAUS) imaging system. , 2015, 2015, .		3
17	Real-time sono-photoacoustic imaging of gold nanoemulsions. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
18	Real-time interleaved photoacoustic/ultrasound (PAUS) imaging for interventional procedure guidance. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
19	Magneto-Optical Nanoparticles for Cyclic Magnetomotive Photoacoustic Imaging. ACS Nano, 2015, 9, 1964-1976.	7.3	50
20	Sono-photoacoustic imaging of gold nanoemulsions: Part II. Real time imaging. Photoacoustics, 2015, 3, 11-19.	4.4	42
21	Amplitude-modulated ultrasound radiation force combined with phase-sensitive optical coherence tomography for shear wave elastography. Proceedings of SPIE, 2015, , .	0.8	2
22	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
23	Sono-photoacoustic imaging of gold nanoemulsions: Part I. Exposure thresholds. Photoacoustics, 2015, 3, 3-10.	4.4	50
24	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
25	Shear wave elastography method combining phase-sensitive optical coherence tomography and coded acoustic radiation force. , 2014, , .		2
26	Visualizing ultrasonically induced shear wave propagation using phase-sensitive optical coherence tomography for dynamic elastography. Optics Letters, 2014, 39, 838.	1.7	67
27	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
28	Shear wave pulse compression for dynamic elastography using phase-sensitive optical coherence tomography. Journal of Biomedical Optics, 2014, 19, 016013.	1.4	47
29	Shear wave elastography using phase sensitive optical coherence tomography. , 2014, , .		3
30	Clinically translatable integrated ultrasound and photoacoustic imaging system. , 2014, , .		1
31	Inertial cavitation in theranostic nanoemulsions with simultaneous pulsed laser and low frequency ultrasound excitation. Proceedings of SPIE, 2014, , .	0.8	0
32	Clinically translatable ultrasound/photoacoustic imaging for real-time needle biopsy guidance. , 2014, , .		6
33	Laser-induced cavitation in nanoemulsion with gold nanospheres for blood clot disruption: in vitro results. Optics Letters, 2014, 39, 2599.	1.7	44
34	Visualization of ultrasonically induced shear wave propagation using phase sensitive optical coherence tomography. , 2014, , .		0
35	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
36	Inertial cavitation manipulation in nanoemulsion induced by low frequency acoustic wave with laser irradiation for potential therapeutic applications. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Monitoring the lesion formation during histotripsy treatment using shear wave imaging. , 2012, , .		0
38	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
39	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
40	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
41	Monitoring of thermal ablation therapy based on shear modulus changes: Shear wave thermometry and shear wave lesion imaging. , 2010, , .		1
42	Experimental reverse time migration for imaging of elasticity changes. , 2010, , .		1