

Mathieu Pernot

List of Publications by Year in descending order

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Version: 2024-02-01

166
papers

7,109
citations

61687

45
h-index

71088

80
g-index

168
all docs

168
docs citations

168
times ranked

5592
citing authors

#	ARTICLE	IF	CITATIONS
1	Unilateral versus bilateral cerebral perfusion during aortic surgery for acute type A aortic dissection: a multicentre study. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 61, 828-835.	0.6	12
2	PHACTR-1 (Phosphatase and Actin Regulator 1) Deficiency in Either Endothelial or Smooth Muscle Cells Does Not Predispose Mice to Nonatherosclerotic Arteriopathies in 3 Transgenic Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 597-609.	1.1	8
3	Boosting transducer matrix sensitivity for 3D large field ultrasound localization microscopy using a multi-lens diffracting layer: a simulation study. <i>Physics in Medicine and Biology</i> , 2022, 67, 085009.	1.6	4
4	In vivo whole brain microvascular imaging in mice using transcranial 3D Ultrasound Localization Microscopy. <i>EBioMedicine</i> , 2022, 79, 103995.	2.7	45
5	Increased Capillary Permeability in Heart Induces Diastolic Dysfunction Independently of Inflammation, Fibrosis, or Cardiomyocyte Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, 745-763.	1.1	9
6	Unusual Postoperative Course After Tendyne Implantation. <i>Circulation: Cardiovascular Imaging</i> , 2022, 15, .	1.3	2
7	Budget Impact Associated with the Introduction of the Impella 5.0 [®] Mechanical Circulatory Support Device for Cardiogenic Shock in France. <i>ClinicoEconomics and Outcomes Research</i> , 2021, Volume 13, 53-63.	0.7	4
8	Transcranial ultrafast ultrasound localization microscopy of brain vasculature in patients. <i>Nature Biomedical Engineering</i> , 2021, 5, 219-228.	11.6	157
9	Feasibility and Performance of Noninvasive Ultrasound Therapy in Patients With Severe Symptomatic Aortic Valve Stenosis. <i>Circulation</i> , 2021, 143, 968-970.	1.6	20
10	Dealiasing High-Frame-Rate Color Doppler Using Dual-Wavelength Processing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2117-2128.	1.7	11
11	How to minimize the circulatory arrest time by using the Thoraflex Hybrid prosthesis: the "release and perfuse"™ technique. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, , .	0.6	3
12	Characteristics and outcome of ambulatory heart failure patients receiving a left ventricular assist device. <i>ESC Heart Failure</i> , 2021, , .	1.4	3
13	XDoppler: Cross-Correlation of Orthogonal Apertures for 3D Blood Flow Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3358-3368.	5.4	14
14	Updates on the Latest Surgical Approach of the Aortic Stenosis. <i>Journal of Clinical Medicine</i> , 2021, 10, 5140.	1.0	0
15	4D Functional Imaging of the Rat Brain Using a Large Aperture Row-Column Array. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1884-1893.	5.4	51
16	Ultrafast Ultrasound Imaging in Pediatric and Adult Cardiology. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1771-1791.	2.3	54
17	Non-invasive imaging techniques to assess myocardial perfusion. <i>Expert Review of Medical Devices</i> , 2020, 17, 1133-1144.	1.4	8
18	Myocardial Stiffness Assessment by Ultrasound. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2314-2315.	2.3	3

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19	Feasibility and safety of non-invasive ultrasound therapy (NIUT) on an porcine aortic valve. <i>Physics in Medicine and Biology</i> , 2020, 65, 215004.	1.6	9
20	Non-invasive recanalization of deep venous thrombosis by high frequency ultrasound in a swine model with follow-up. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 2889-2898.	1.9	9
21	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2017-2035.	2.3	123
22	4D Ultrafast Ultrasound Imaging of Naturally Occurring Shear Waves in the Human Heart. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4436-4444.	5.4	22
23	Innovative Multiparametric Characterization of Carotid Plaque Vulnerability by Ultrasound. <i>Frontiers in Physiology</i> , 2020, 11, 157.	1.3	10
24	Current results of left ventricular assist device therapy in France: the ASSIST-ICD registry. <i>European Journal of Cardio-thoracic Surgery</i> , 2020, 58, 112-120.	0.6	6
25	Segmental aortic stiffness in patients with bicuspid aortic valve compared with first-degree relatives. <i>Heart</i> , 2019, 105, 130-136.	1.2	18
26	4D functional ultrasound imaging of whole-brain activity in rodents. <i>Nature Methods</i> , 2019, 16, 994-997.	9.0	135
27	In the Heart of Stiffness. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2399-2401.	2.3	12
28	Ultrafast 3D Ultrasound Localization Microscopy Using a 32 \times 32 Matrix Array. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2005-2015.	5.4	89
29	Aortic Wall Elastic Properties in Case of Bicuspid Aortic Valve. <i>Frontiers in Physiology</i> , 2019, 10, 299.	1.3	23
30	Mapping Biological Current Densities With Ultrafast Acoustoelectric Imaging: Application to the Beating Rat Heart. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1852-1857.	5.4	14
31	Real-time monitoring of pulsed cavitation ultrasound therapy using coherent passive cavitation imaging: perspectives for volumetric imaging. , 2019, , .		0
32	Multi-plane-transmit (MPT) Volumetric Imaging based on A Matrix Array: Experimental Validation. , 2019, , .		0
33	Carotid Stiffness Assessment With Ultrafast Ultrasound Imaging in Case of Bicuspid Aortic Valve. <i>Frontiers in Physiology</i> , 2019, 10, 1330.	1.3	15
34	Arterial Stiffness Assessment by Shear Wave Elastography and Ultrafast Pulse Wave Imaging: Comparison with Reference Techniques in Normotensives and Hypertensives. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 758-772.	0.7	59
35	Arterial Stiffening with Ultrafast Ultrasound Imaging Gives New Insight into Arterial Phenotype of Vascular Ehlers-Danlos Mouse Models. <i>Ultraschall in Der Medizin</i> , 2019, 40, 734-742.	0.8	15
36	Stone Liver, Heart in Danger. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 965-966.	2.3	1

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37	Myocardial Stiffness Evaluation Using Noninvasive Shear Wave Imaging in Healthy and Hypertrophic Cardiomyopathic Adults. JACC: Cardiovascular Imaging, 2019, 12, 1135-1145.	2.3	108
38	A giant coronary artery aneurysm and recurrent ST-segment elevation myocardial infarction: A management dilemma. Cardiology Journal, 2019, 26, 212-214.	0.5	3
39	An <i>in silico</i> framework to analyze the anisotropic shear wave mechanics in cardiac shear wave elastography. Physics in Medicine and Biology, 2018, 63, 075005.	1.6	18
40	Simultaneous positron emission tomography and ultrafast ultrasound for hybrid molecular, anatomical and functional imaging. Nature Biomedical Engineering, 2018, 2, 85-94.	11.6	44
41	Myocardial Stiffness Assessment Using Shear Wave Imaging in Pediatric Hypertrophic Cardiomyopathy. JACC: Cardiovascular Imaging, 2018, 11, 779-781.	2.3	36
42	Functional ultrasound neuroimaging: a review of the preclinical and clinical state of the art. Current Opinion in Neurobiology, 2018, 50, 128-135.	2.0	140
43	Noninvasive Imaging of the Coronary Vasculature Using Ultrafast Ultrasound. JACC: Cardiovascular Imaging, 2018, 11, 798-808.	2.3	43
44	A Novel Row-Column Addressed Stack Architecture for Enhanced Cardiac Imaging. , 2018, , .		0
45	Quantitative Cardiac Output Assessment Using 4D Ultrafast Doppler Imaging: An in Vitro Study. , 2018, , .		1
46	2D and 3D real-time passive cavitation imaging of pulsed cavitation ultrasound therapy in moving tissues. Physics in Medicine and Biology, 2018, 63, 235028.	1.6	11
47	Ultrafast 4D Doppler Imaging of the Rat Brain with a Large Aperture Row Column Addressed Probe. , 2018, , .		3
48	Multi-parametric functional ultrasound imaging of cerebral hemodynamics in a cardiopulmonary resuscitation model. Scientific Reports, 2018, 8, 16436.	1.6	12
49	Adaptive Spatiotemporal Filtering for Coronary Ultrafast Doppler Angiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2201-2204.	1.7	17
50	Myocardial Thermal Ablation with a Transesophageal High-Intensity Focused Ultrasound Probe: Experiments on Beating Heart Models. Ultrasound in Medicine and Biology, 2018, 44, 2625-2636.	0.7	6
51	PDZRN3 destabilizes endothelial cell-cell junctions through a PKC ζ -containing polarity complex to increase vascular permeability. Science Signaling, 2017, 10, .	1.6	35
52	Toward Noninvasive Assessment of CVP Variations Using Real-Time and Quantitative Liver Stiffness Estimation. JACC: Cardiovascular Imaging, 2017, 10, 1285-1286.	2.3	8
53	An integrated and highly sensitive ultrafast acoustoelectric imaging system for biomedical applications. Physics in Medicine and Biology, 2017, 62, 5808-5822.	1.6	25
54	Pulsed Cavitation Ultrasound Softening. JACC Basic To Translational Science, 2017, 2, 372-383.	1.9	16

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55	Functional ultrasound imaging of brain activity in human newborns. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	154
56	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. <i>Scientific Reports</i> , 2017, 7, 830.	1.6	57
57	Investigating Shear Wave Physics in a Generic Pediatric Left Ventricular Model via <i>In Vitro</i> Experiments and Finite Element Simulations. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 349-361.	1.7	17
58	In vitro & in vivo 4D ultrafast Doppler imaging using a large aperture row column addressed transducer. , 2017, , .		0
59	Notice of Removal: 3D ultrafast imaging of the heart: Application to the mapping of electromechanical activation. , 2017, , .		0
60	Notice of Removal: Self-adaptive time reversal cavity for ultrasound therapy through the ribcage. , 2017, , .		0
61	Notice of Removal: Experimental observations of shear waves in cylindrical phantoms and excised equine carotid artery. , 2017, , .		0
62	Notice of Removal: Pulsed cavitation ultrasound softening: A new non-invasive therapeutic approach of calcified valve stenosis. , 2017, , .		1
63	Notice of Removal: Ultrafast Acoustoelectric Imaging for direct mapping of cardiac electrical activation in vivo. , 2017, , .		0
64	Effect of Ultrafast Imaging on Shear Wave Visualization and Characterization: An Experimental and Computational Study in a Pediatric Ventricular Model. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 840.	1.3	12
65	Notice of Removal: Full 4D functional ultrasound imaging in rodents using a matrix array. , 2017, , .		2
66	Notice of Removal: Motion correction for 3D ultrafast ultrasound: Application to 3D backscattered tensor Imaging of soft tissues anisotropy. , 2017, , .		0
67	The effect of stretching on transmural shear wave anisotropy in cardiac shear wave elastography: An ex vivo and in silico study. , 2017, , .		1
68	Notice of Removal: Volumetric ultrafast ultrasound localization microscopy using a 32 \times 32 matrix array. , 2017, , .		0
69	Notice of Removal: Transoesophageal HIFU for cardiac ablation : Experiments on beating hearts. , 2017, , .		0
70	Notice of Removal: Insight in vascular fragility induced by collagen structural change using ultrafast ultrasound imaging in a mouse model of vascular Ehlers-Danlos syndrome. , 2017, , .		0
71	Notice of Removal: Ultrafast ultrasound imaging of the heart: From 2D to 3D quantitative imaging of the myocardium and blood flows. , 2017, , .		0
72	Notice of Removal: High frequency row column addressed matrix array for volumetric ultrafast ultrasound imaging. , 2017, , .		0

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73	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
74	Notice of Removal: High-resolution vector Doppler for cerebral blood flow estimation. , 2017, , .		0
75	The effect of stretching on transmural shear wave anisotropy in cardiac shear wave elastography. , 2017, , .		2
76	Notice of Removal: Three-dimensional mapping of epicardial and intramyocardial coronary circulation in-vivo using 3-D Ultrafast Ultrasound Doppler imaging. , 2017, , .		1
77	Pulsatile flow dynamics in stenotic aortic models using ultrasonic and optical particle imaging velocimetry. , 2016, , .		0
78	4D ultrafast ultrasound flow imaging: <i>in vivo</i> quantification of arterial volumetric flow rate in a single heartbeat. <i>Physics in Medicine and Biology</i> , 2016, 61, L48-L61.	1.6	101
79	Shear Wave Imaging of Passive Diastolic Myocardial Stiffness. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1023-1030.	2.3	59
80	A Comparison of the Performance of Different Multiline Transmit Setups for Fast Volumetric Cardiac Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 2082-2091.	1.7	19
81	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
82	Scimitar Syndrome Repair in Adults: Intermediate-Term Results Using an Extracardiac Conduit. <i>Annals of Thoracic Surgery</i> , 2016, 102, 2070-2076.	0.7	9
83	Functional ultrasound imaging of the brain activity in human neonates. , 2016, , .		1
84	4D microvascular imaging based on ultrafast Doppler tomography. <i>NeuroImage</i> , 2016, 127, 472-483.	2.1	104
85	Nanofibrous clinical-grade collagen scaffolds seeded with human cardiomyocytes induces cardiac remodeling in dilated cardiomyopathy. <i>Biomaterials</i> , 2016, 80, 157-168.	5.7	65
86	Ultrafast Harmonic Coherent Compound (UHCC) Imaging for High Frame Rate Echocardiography and Shear-Wave Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 420-431.	1.7	61
87	Carotid stiffness change over the cardiac cycle by ultrafast ultrasound imaging in healthy volunteers and vascular Ehlers-Danlos syndrome. <i>Journal of Hypertension</i> , 2015, 33, 1890-1896.	0.3	54
88	Hypothermic Total Liquid Ventilation Is Highly Protective Through Cerebral Hemodynamic Preservation and Sepsis-Like Mitigation After Asphyxial Cardiac Arrest*. <i>Critical Care Medicine</i> , 2015, 43, e420-e430.	0.4	31
89	Cardiac shear-wave elastography using a transesophageal transducer: application to the mapping of thermal lesions in ultrasound transesophageal cardiac ablation. <i>Physics in Medicine and Biology</i> , 2015, 60, 7829-7846.	1.6	21
90	Shear wave elastography for lipid content detection in transverse arterial cross-sections. , 2015, , .		5

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91	Myocardial stiffness assessment in pediatric cardiology using shear wave imaging. , 2015, , .		0
92	Multiplane wave imaging increases signal-to-noise ratio in ultrafast ultrasound imaging. Physics in Medicine and Biology, 2015, 60, 8549-8566.	1.6	77
93	3-D ultrafast doppler imaging applied to the noninvasive mapping of blood vessels in Vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1467-1472.	1.7	95
94	4-D ultrafast shear-wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1059-1065.	1.7	83
95	A versatile and experimentally validated finite element model to assess the accuracy of shear wave elastography in a bounded viscoelastic medium. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 439-450.	1.7	23
96	EEG and functional ultrasound imaging in mobile rats. Nature Methods, 2015, 12, 831-834.	9.0	133
97	Modelling the impulse diffraction field of shear waves in transverse isotropic viscoelastic medium. Physics in Medicine and Biology, 2015, 60, 3639-3654.	1.6	28
98	Spatiotemporal Clutter Filtering of Ultrafast Ultrasound Data Highly Increases Doppler and fUltrasound Sensitivity. IEEE Transactions on Medical Imaging, 2015, 34, 2271-2285.	5.4	661
99	3D ultrafast ultrasound imaging<i>in vivo</i>. Physics in Medicine and Biology, 2014, 59, L1-L13.	1.6	290
100	Transthoracic ultrafast Doppler imaging of human left ventricular hemodynamic function. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1268-1275.	1.7	25
101	Ultrafast Doppler Reveals the Mapping of Cerebral Vascular Resistivity in Neonates. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1009-1017.	2.4	71
102	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue: a multimodality characterization. Physics in Medicine and Biology, 2014, 59, 6923-6940.	1.6	66
103	Quantitative evaluation of atrial radio frequency ablation using intracardiac shear wave elastography. Medical Physics, 2014, 41, 112901.	1.6	24
104	Ultrasound microangiography of the metacarpophalangeal joint using ultrafast Doppler. , 2014, , .		0
105	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue. , 2014, , .		3
106	Recovering shear wave velocity in boundary sensitive media with two-dimensional motion tracking. , 2014, , .		2
107	Ultrasound backscatter tensor imaging (BTI): analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 986-996.	1.7	40
108	High-contrast ultrafast imaging of the heart. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 288-301.	1.7	200

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109	Non-invasive ultrasonic surgery of the brain in non-human primates. Journal of the Acoustical Society of America, 2013, 134, 1632-1639.	0.5	26
110	Predicting Fluid Responsiveness During Infrarenal Aortic Cross-Clamping in Pigs. Journal of Cardiothoracic and Vascular Anesthesia, 2013, 27, 1101-1107.	0.6	5
111	In vivo transthoracic ultrafast Doppler imaging of left intraventricular blood flow pattern. , 2013, , .		2
112	Towards backscatter tensor imaging (BTI): Analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues. , 2013, , .		3
113	Supersonic shear wave imaging to assess arterial anisotropy: Ex-vivo testing of the horse aorta. , 2013, , .		3
114	Transcranial high intensity focused ultrasound therapy guided by 7 TESLA MRI in a rat brain tumour model: A feasibility study. International Journal of Hyperthermia, 2013, 29, 598-608.	1.1	18
115	Targeting accuracy of transcranial magnetic resonanceâ€“guided high-intensity focused ultrasound brain therapy: a fresh cadaver model. Journal of Neurosurgery, 2013, 118, 1046-1052.	0.9	62
116	Monitoring the lesion formation during histotripsy treatment using shear wave imaging. , 2012, , .		0
117	Ultrafast Doppler Imaging of Blood Flow Dynamics in the Myocardium. IEEE Transactions on Medical Imaging, 2012, 31, 1661-1668.	5.4	73
118	Ultrasound elastic tensor imaging: comparison with MR diffusion tensor imaging in the myocardium. Physics in Medicine and Biology, 2012, 57, 5075-5095.	1.6	77
119	Shear Wave Imaging of the heart using a cardiac phased array with coherent spatial compound. , 2012, , .		8
120	Dynamic Study of Bloodâ€“Brain Barrier Closure after its Disruption using Ultrasound: A Quantitative Analysis. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1948-1958.	2.4	156
121	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
122	Mapping Myocardial Fiber Orientation Using Echocardiography-Based Shear Wave Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 554-562.	5.4	144
123	Imaging blood flow dynamics within fast moving tissue: Application to the myocardium. , 2011, , .		1
124	The link between tissue elasticity and thermal dose<i>in vivo</i>. Physics in Medicine and Biology, 2011, 56, 7755-7765.	1.6	43
125	Real-Time Assessment of Myocardial Contractility Using Shear Wave Imaging. Journal of the American College of Cardiology, 2011, 58, 65-72.	1.2	127
126	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

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127	Combined passive detection and ultrafast active imaging of cavitation events induced by short pulses of high-intensity ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 517-532.	1.7	101
128	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
129	In Vivo Quantitative Mapping of Myocardial Stiffening and Transmural Anisotropy During the Cardiac Cycle. IEEE Transactions on Medical Imaging, 2011, 30, 295-305.	5.4	202
130	Attenuation, scattering, and absorption of ultrasound in the skull bone. Medical Physics, 2011, 39, 299-307.	1.6	260
131	Freedom SOLO valve: early- and intermediate-term results of a single centre's first 100 cases. European Journal of Cardio-thoracic Surgery, 2011, 39, 256-261.	0.6	15
132	Transcranial Ultrasonic Therapy Based on Time Reversal of Acoustically Induced Cavitation Bubble Signature. IEEE Transactions on Biomedical Engineering, 2010, 57, 134-144.	2.5	70
133	Quantitative Assessment of Arterial Wall Biomechanical Properties Using Shear Wave Imaging. Ultrasound in Medicine and Biology, 2010, 36, 1662-1676.	0.7	305
134	Dynamic and quantitative assessment of myocardial stiffness using Shear Wave Imaging. , 2010, , .		0
135	MR-guided adaptive focusing of ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1734-1747.	1.7	43
136	Evaluation of local arterial stiffness using ultrafast imaging: A comparative study using local arterial pulse wave velocity estimation and shear wave imaging. , 2010, , .		7
137	Monitoring of thermal ablation therapy based on shear modulus changes: Shear wave thermometry and shear wave lesion imaging. , 2010, , .		1
138	Noninvasive assessment of myocardial anisotropy in vitro and in vivo using Supersonic Shear Wave Imaging. , 2010, , .		5
139	Real time quantitative elastography using Supersonic Shear wave Imaging. , 2010, , .		5
140	Mechanisms of attenuation and heating dissipation of ultrasound in the skull bone: Comparison between simulation models and experiments. , 2010, , .		11
141	Experimental reverse time migration for imaging of elasticity changes. , 2010, , .		1
142	Quantitative imaging of myocardium elasticity using supersonic shear imaging. , 2009, , .		3
143	Ultrafast imaging of the heart using circular wave synthetic imaging with phased arrays. , 2009, , .		23
144	Energy-based adaptive focusing: Optimal ultrasonic focusing using magnetic resonance guidance. , 2009, , .		0

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145	Energy-based adaptive focusing of waves: application to noninvasive aberration correction of ultrasonic wavefields. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2388-2399.	1.7	31
146	Potential of MRI and Ultrasound Radiation Force in Elastography: Applications to Diagnosis and Therapy. Proceedings of the IEEE, 2008, 96, 490-499.	16.4	18
147	Reaching the optimal focusing and steering capabilities of transcranial HIFU arrays based on time reversal of acoustically induced cavitation bubble signature. , 2008, , .		0
148	Non-invasive quantitative imaging of arterial wall elasticity using supersonic shear imaging. , 2008, , .		3
149	Energy-based adaptive focusing of waves: Application to ultrasonic imaging and therapy. , 2008, , .		4
150	In vivo transcranial brain surgery with an ultrasonic time reversal mirror. Journal of Neurosurgery, 2007, 106, 1061-1066.	0.9	155
151	A Novel Noninvasive Technique for Pulse-Wave Imaging and Characterization of Clinically-Significant Vascular Mechanical Properties <i>In Vivo</i> . Ultrasonic Imaging, 2007, 29, 137-154.	1.4	99
152	New Devices and Promising approaches for Clinical H.I.F.U. Applications. AIP Conference Proceedings, 2007, , .	0.3	0
153	Noninvasive, transcranial and localized opening of the blood-brain barrier using focused ultrasound in mice. Ultrasound in Medicine and Biology, 2007, 33, 95-104.	0.7	331
154	ECG-gated, Mechanical and Electromechanical Wave Imaging of Cardiovascular Tissues In Vivo. Ultrasound in Medicine and Biology, 2007, 33, 1075-1085.	0.7	149
155	Imaging the mechanics and electromechanics of the heart. , 2006, Suppl, 6648-51.		15
156	In-vivo non-invasive motion tracking and correction in High Intensity Focused Ultrasound therapy. , 2006, 2006, 688-91.		18
157	Non-invasive transcranial ultrasound therapy guided by CT-scans. , 2006, 2006, 683-7.		11
158	Real-Time Monitoring Of Regional Tissue Elasticity During FUS Focused Ultrasound Therapy Using Harmonic Motion Imaging. AIP Conference Proceedings, 2006, , .	0.3	3
159	â€œUltrasonic starsâ€ for time reversal focusing using induced cavitation bubbles. AIP Conference Proceedings, 2006, , .	0.3	3
160	Noninvasive Blood-Brain Barrier Opening in Live Mice. AIP Conference Proceedings, 2006, , .	0.3	4
161	â€œUltrasonic starsâ€ for time-reversal focusing using induced cavitation bubbles. Applied Physics Letters, 2006, 88, 034102.	1.5	53
162	Single-Element Focused Ultrasound Transducer Method for Harmonic Motion Imaging. Ultrasonic Imaging, 2006, 28, 144-158.	1.4	57

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163	Adaptive Focusing For Ultrasonic Transcranial Brain Therapy: First In Vivo Investigation On 22 Sheep. AIP Conference Proceedings, 2005, , .	0.3	10
164	Predicting and Preventing Skull Overheating in Non Invasive Brain HIFU Treatment Protocols. AIP Conference Proceedings, 2005, , .	0.3	0
165	3-D real-time motion correction in high-intensity focused ultrasound therapy. Ultrasound in Medicine and Biology, 2004, 30, 1239-1249.	0.7	116
166	Evaluation of the "release and perfuse technique" for aortic arch surgery. Journal of Cardiac Surgery, 0, , .	0.3	0