Mickael Tanter

List of Publications by Year
in descending order

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466	34,295	3668 92	5347 170
papers	citations	h-index	g-index

546	546	546	16884
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Supersonic shear imaging: a new technique for soft tissue elasticity mapping. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 396-409.	1.7	2,047
2	Coherent plane-wave compounding for very high frame rate ultrasonography and transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 489-506.	1.7	1,364
3	Ultrafast ultrasound localization microscopy for deep super-resolution vascular imaging. Nature, 2015, 527, 499-502.	13.7	884
4	Ultrasound elastography: Principles and techniques. Diagnostic and Interventional Imaging, 2013, 94, 487-495.	1.8	706
5	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
6	Quantitative Assessment of Breast Lesion Viscoelasticity: Initial Clinical Results Using Supersonic Shear Imaging. Ultrasound in Medicine and Biology, 2008, 34, 1373-1386.	0.7	654
7	Functional ultrasound imaging of the brain. Nature Methods, 2011, 8, 662-664.	9.0	589
8	Viscoelastic and Anisotropic Mechanical Properties of in vivo Muscle Tissue Assessed by Supersonic Shear Imaging. Ultrasound in Medicine and Biology, 2010, 36, 789-801.	0.7	577
9	Time-reversed acoustics. Reports on Progress in Physics, 2000, 63, 1933-1995.	8.1	566
10	Experimental demonstration of noninvasive transskull adaptive focusing based on prior computed tomography scans. Journal of the Acoustical Society of America, 2003, 113, 84-93.	0.5	486
11	Ultrafast imaging in biomedical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 102-119.	1.7	481
12	Ultrafast imaging in biomedical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 102-119.	1.7	470
13	Breast Lesions: Quantitative Elastography with Supersonic Shear Imagingâ€”Preliminary Results. Radiology, 2010, 256, 297-303.	3.6	469
14	Viscoelastic shear properties of in vivo breast lesions measured by MR elastography. Magnetic Resonance Imaging, 2005, 23, 159-165.	1.0	441
15	Ultrafast compound doppler imaging: providing full blood flow characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 134-147.	1.7	384
16	Noninvasive In Vivo Liver Fibrosis Evaluation Using Supersonic Shear Imaging: A Clinical Study on 113 Hepatitis C Virus Patients. Ultrasound in Medicine and Biology, 2011, 37, 1361-1373.	0.7	382
17	Quantitative Viscoelasticity Mapping of Human Liver Using Supersonic Shear Imaging: Preliminary In Vivo Feasability Study. Ultrasound in Medicine and Biology, 2009, 35, 219-229.	0.7	369
18	Shear Wave Spectroscopy for In Vivo Quantification of Human Soft Tissues Visco-Elasticity. IEEE Transactions on Medical Imaging, 2009, 28, 313-322.	5.4	355

#	Article	IF	Citations
19	Ultrafast compound imaging for 2-D motion vector estimation: application to transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1363-1374.	1.7	354
20	Shear modulus imaging with 2-D transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 426-435.	1.7	354
21	Shear elasticity probe for soft tissues with 1-D transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 436-446.	1.7	352
22	Imaging anisotropic and viscous properties of breast tissue by magnetic resonance-elastography. Magnetic Resonance in Medicine, 2005, 53, 372-387.	1.9	329
23	Low-Intensity Focused Ultrasound Modulates Monkey Visuomotor Behavior. Current Biology, 2013, 23, 2430-2433.	1.8	318
24	In vivo breast tumor detection using transient elastography. Ultrasound in Medicine and Biology, 2003, 29, 1387-1396.	0.7	314
25	Recovering the Greenâ€™s function from field-field correlations in an open scattering medium (L). Journal of the Acoustical Society of America, 2003, 113, 2973.	0.5	312
26	Quantitative Assessment of Arterial Wall Biomechanical Properties Using Shear Wave Imaging. Ultrasound in Medicine and Biology, 2010, 36, 1662-1676.	0.7	305
27	MR elastography of breast lesions: Understanding the solid/liquid duality can improve the specificity of contrastâ€enhanced MR mammography. Magnetic Resonance in Medicine, 2007, 58, 1135-1144.	1.9	295
28	3D ultrafast ultrasound imagingin vivo. Physics in Medicine and Biology, 2014, 59, L1-L13.	1.6	290
29	Mechanical induction of the tumorigenic Î²-catenin pathway by tumour growth pressure. Nature, 2015, 523, 92-95.	13.7	288
30	Time reversal and the inverse filter. Journal of the Acoustical Society of America, 2000, 108, 223-234.	0.5	268
31	Attenuation, scattering, and absorption of ultrasound in the skull bone. Medical Physics, 2011, 39, 299-307.	1.6	260
32	Super-resolution Ultrasound Imaging. Ultrasound in Medicine and Biology, 2020, 46, 865-891.	0.7	253
33	Focusing and steering through absorbing and aberrating layers: Application to ultrasonic propagation through the skull. Journal of the Acoustical Society of America, 1998, 103, 2403-2410.	0.5	250
34	Elastography for Muscle Biomechanics. Exercise and Sport Sciences Reviews, 2015, 43, 125-133.	1.6	233
35	Functional ultrasound imaging of the brain: theory and basic principles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 492-506.	1.7	232
36	Time-Resolved Pulsed Elastography with Ultrafast Ultrasonic Imaging. Ultrasonic Imaging, 1999, 21, 259-272.	1.4	217

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37	The role of viscosity in the impulse diffraction field of elastic waves induced by the acoustic radiation force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1523-1536.	1.7	215
38	Supersonic Shear Wave Elastography of InÂVivo Pig Kidney: Influence of Blood Pressure, Urinary Pressure and Tissue Anisotropy. Ultrasound in Medicine and Biology, 2012, 38, 1559-1567.	0.7	214
39	Ultrasound Localization Microscopy and Super-Resolution: A State of the Art. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1304-1320.	1.7	213
40	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
41	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
42	High-contrast ultrafast imaging of the heart. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 288-301.	1.7	200
43	High-Resolution Quantitative Imaging of Cornea Elasticity Using Supersonic Shear Imaging. IEEE Transactions on Medical Imaging, 2009, 28, 1881-1893.	5.4	198
44	The EFSUMB Guidelines and Recommendations for the Clinical Practice of Elastography in Non-Hepatic Applications: Update 2018. Ultraschall in Der Medizin, 2019, 40, 425-453.	0.8	196
45	Correlation of random wavefields: An interdisciplinary review. Geophysics, 2006, 71, SI11-SI21.	1.4	194
46	Investigating liver stiffness and viscosity for fibrosis, steatosis and activity staging using shear wave elastography. Journal of Hepatology, 2015, 62, 317-324.	1.8	193
47	Optimal focusing by spatio-temporal inverse filter. I. Basic principles. Journal of the Acoustical Society of America, 2001, 110, 37-47.	0.5	191
48	Realâ€time visualization of muscle stiffness distribution with ultrasound shear wave imaging during muscle contraction. Muscle and Nerve, 2010, 42, 438-441.	1.0	191
49	Non-invasive transcranial ultrasound therapy based on a 3D CT scan: protocol validation andin vitroresults. Physics in Medicine and Biology, 2009, 54, 2597-2613.	1.6	189
50	High power transcranial beam steering for ultrasonic brain therapy. Physics in Medicine and Biology, 2003, 48, 2577-2589.	1.6	184
51	Taking Advantage of Multiple Scattering to Communicate with Time-Reversal Antennas. Physical Review Letters, 2003, 90, 014301.	2.9	182
52	Time-Reversal Acoustics in Biomedical Engineering. Annual Review of Biomedical Engineering, 2003, 5, 465-497.	5.7	179
53	On the effects of reflected waves in transient shear wave elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2032-2035.	1.7	176
54	Acoustoelasticity in soft solids: Assessment of the nonlinear shear modulus with the acoustic radiation force. Journal of the Acoustical Society of America, 2007, 122, 3211-3219.	0.5	165

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55	Influence of the pressure field distribution in transcranial ultrasonic neurostimulation. Medical Physics, 2013, 40, 082902.	1.6	162
56	In vivoevaluation of the elastic anisotropy of the human Achilles tendon using shear wave dispersion analysis. Physics in Medicine and Biology, 2014, 59, 505-523.	1.6	158
57	Transcranial ultrafast ultrasound localization microscopy of brain vasculature in patients. Nature Biomedical Engineering, 2021, 5, 219-228.	11.6	157
58	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
59	In vivo transcranial brain surgery with an ultrasonic time reversal mirror. Journal of Neurosurgery, 2007, 106, 1061-1066.	0.9	155
60	Functional ultrasound imaging of brain activity in human newborns. Science Translational Medicine, 2017, 9, .	5.8	154
61	Functional ultrasound imaging of intrinsic connectivity in the living rat brain with high spatiotemporal resolution. Nature Communications, 2014, 5, 5023.	5.8	150
62	Ultrasound contrast plane wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2676-83.	1.7	149
63	Mapping Myocardial Fiber Orientation Using Echocardiography-Based Shear Wave Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 554-562.	5.4	144
64	Sono-activated ultrasound localization microscopy. Applied Physics Letters, 2013, 103, .	1.5	144
65	Viscoelasticity in Achilles Tendonopathy: Quantitative Assessment by Using Real-time Shear-Wave Elastography. Radiology, 2015, 274, 821-829.	3.6	144
66	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
67	Electrical Impedance Tomography by Elastic Deformation. SIAM Journal on Applied Mathematics, 2008, 68, 1557-1573.	0.8	136
68	Light controls cerebral blood flow in naive animals. Nature Communications, 2017, 8, 14191.	5.8	136
69	4D functional ultrasound imaging of whole-brain activity in rodents. Nature Methods, 2019, 16, 994-997.	9.0	135
70	Simulation of Intracranial Acoustic Fields in Clinical Trials of Sonothrombolysis. Ultrasound in Medicine and Biology, 2009, 35, 1148-1158.	0.7	134
71	EEG and functional ultrasound imaging in mobile rats. Nature Methods, 2015, 12, 831-834.	9.0	133
72	Real-Time Assessment of Myocardial Contractility Using Shear Wave Imaging. Journal of the American College of Cardiology, 2011, 58, 65-72.	1.2	127

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73	On the elasticity of transverse isotropic soft tissues (L). Journal of the Acoustical Society of America, 2011, 129, 2757-2760.	0.5	124
74	Assessment of elastic parameters of human skin using dynamic elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 980-989.	1.7	121
75	Transcranial functional ultrasound imaging of the brain using microbubble-enhanced ultrasensitive Doppler. NeuroImage, 2016, 124, 752-761.	2.1	118
76	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. Physics in Medicine and Biology, 2010, 55, 1701-1718.	1.6	117
77	Resolution limits of ultrafast ultrasound localization microscopy. Physics in Medicine and Biology, 2015, 60, 8723-8740.	1.6	117
78	Robust sound speed estimation for ultrasound-based hepatic steatosis assessment. Physics in Medicine and Biology, 2017, 62, 3582-3598.	1.6	117
79	3-D real-time motion correction in high-intensity focused ultrasound therapy. Ultrasound in Medicine and Biology, 2004, 30, 1239-1249.	0.7	116
80	Monitoring Thermally-Induced Lesions with Supersonic Shear Imaging. Ultrasonic Imaging, 2004, 26, 71-84.	1.4	115
81	Quantitative elastography of renal transplants using supersonic shear imaging: a pilot study. European Radiology, 2012, 22, 2138-2146.	2.3	113
82	Functional ultrasound imaging reveals different odor-evoked patterns of vascular activity in the main olfactory bulb and the anterior piriform cortex. NeuroImage, 2014, 95, 176-184.	2.1	112
83	Transcranial ultrasonic stimulation modulates single-neuron discharge in macaques performing an antisaccade task. Brain Stimulation, 2017, 10, 1024-1031.	0.7	111
84	Myocardial Stiffness Evaluation Using Noninvasive Shear Wave Imaging in Healthy and Hypertrophic Cardiomyopathic Adults. JACC: Cardiovascular Imaging, 2019, 12, 1135-1145.	2.3	108
85	Ultrafast Imaging of Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2009, 35, 1908-1916.	0.7	106
86	Microvascular flow dictates the compromise between spatial resolution and acquisition time in Ultrasound Localization Microscopy. Scientific Reports, 2019, 9, 2456.	1.6	106
87	Transcostal high-intensity-focused ultrasound:ex vivoadaptive focusing feasibility study. Physics in Medicine and Biology, 2008, 53, 2937-2951.	1.6	104
88	4D microvascular imaging based on ultrafast Doppler tomography. NeuroImage, 2016, 127, 472-483.	2.1	104
89	Feasibility and Diagnostic Accuracy of Supersonic Shear-Wave Elastography for the Assessment of Liver Stiffness and Liver Fibrosis in Children: A Pilot Study of 96 Patients. Radiology, 2016, 278, 554-562.	3.6	104
90	Reliable Protocol for Shear Wave Elastography of Lower Limb Muscles at Rest and During Passive Stretching. Ultrasound in Medicine and Biology, 2015, 41, 2284-2291.	0.7	103

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91	Subwavelength motion-correction for ultrafast ultrasound localization microscopy. Ultrasonics, 2017, 77, 17-21.	2.1	102
92	Intraoperative Functional Ultrasound Imaging of Human Brain Activity. Scientific Reports, 2017, 7, 7304.	1.6	102
93	Optimal focusing by spatio-temporal inverse filter. II. Experiments. Application to focusing through absorbing and reverberating media. Journal of the Acoustical Society of America, 2001, 110, 48-58.	0.5	101
94	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
95	4D ultrafast ultrasound flow imaging:in vivoquantification of arterial volumetric flow rate in a single heartbeat. Physics in Medicine and Biology, 2016, 61, L48-L61.	1.6	101
96	MR-guided adaptive focusing of therapeutic ultrasound beams in the human head. Medical Physics, 2012, 39, 1141-1149.	1.6	98
97	Compensating for bone interfaces and respiratory motion in high-intensity focused ultrasound. International Journal of Hyperthermia, 2007, 23, 141-151.	1.1	96
98	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
99	Observation of Shock Transverse Waves in Elastic Media. Physical Review Letters, 2003, 91, 164301.	2.9	94
100	In Vivo Measurement of Brain Tumor Elasticity Using Intraoperative Shear Wave Elastography. Ultraschall in Der Medizin, 2016, 37, 584-590.	0.8	94
101	Local hippocampal fast gamma rhythms precede brain-wide hyperemic patterns during spontaneous rodent REM sleep. Nature Communications, 2018, 9, 5364.	5.8	90
102	Functional ultrasound imaging of the brain reveals propagation of task-related brain activity in behaving primates. Nature Communications, 2019, 10, 1400.	5.8	90
103	Ultrafast 3D Ultrasound Localization Microscopy Using a 32 $imes$ 32 Matrix Array. IEEE Transactions on Medical Imaging, 2019, 38, 2005-2015.	5.4	89
104	Transcranial Functional Ultrasound Imaging in Freely Moving Awake Mice and Anesthetized Young Rats without Contrast Agent. Ultrasound in Medicine and Biology, 2017, 43, 1679-1689.	0.7	87
105	3D-printed adaptive acoustic lens as a disruptive technology for transcranial ultrasound therapy using single-element transducers. Physics in Medicine and Biology, 2018, 63, 025026.	1.6	87
106	Assessment of the mechanical properties of the musculoskeletal system using 2-D and 3-D very high frame rate ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2177-2190.	1.7	85
107	Microbubble ultrasound super-localization imaging (MUSLI). , 2011, , .		84
108	Multiwave imaging and super resolution. Physics Today, 2010, 63, 28-33.	0.3	83

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109	4-D ultrafast shear-wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1059-1065.	1.7	83
110	Sound focusing in rooms: The time-reversal approach. Journal of the Acoustical Society of America, 2003, 113, 1533-1543.	0.5	82
111	3D functional ultrasound imaging of the cerebral visual system in rodents. NeuroImage, 2017, 149, 267-274.	2.1	82
112	MR-guided transcranial brain HIFU in small animal models. Physics in Medicine and Biology, 2010, 55, 365-388.	1.6	81
113	Sonic boom in soft materials: The elastic Cerenkov effect. Applied Physics Letters, 2004, 84, 2202-2204.	1.5	78
114	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
115	Multiplane wave imaging increases signal-to-noise ratio in ultrafast ultrasound imaging. Physics in Medicine and Biology, 2015, 60, 8549-8566.	1.6	77
116	Facial Nerve Palsy: Evaluation by Contrast-enhanced MR Imaging. Clinical Radiology, 2001, 56, 926-932.	0.5	76
117	Ultrafast Doppler Imaging of Blood Flow Dynamics in the Myocardium. IEEE Transactions on Medical Imaging, 2012, 31, 1661-1668.	5.4	73
118	Shear wave elastography of tumour growth in a human breast cancer model with pathological correlation. European Radiology, 2013, 23, 2079-2086.	2.3	73
119	In vivobubble nucleation probability in sheep brain tissue. Physics in Medicine and Biology, 2011, 56, 7001-7015.	1.6	71
120	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
121	Potential impact of thermal effects during ultrasonic neurostimulation: retrospective numerical estimation of temperature elevation in seven rodent setups. Physics in Medicine and Biology, 2018, 63, 025003.	1.6	71
122	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
123	Adaptive focusing for transcranial ultrasound imaging using dual arrays. Journal of the Acoustical Society of America, 2006, 120, 2737-2745.	0.5	69
124	Assessment of viscous and elastic properties of sub-wavelength layered soft tissues using shear wave spectroscopy: Theoretical framework and in vitro experimental validation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2305-2315.	1.7	69
125	Real time inverse filter focusing through iterative time reversal. Journal of the Acoustical Society of America, 2004, 115, 768-775.	0.5	68
126	Assessment of the Cervix in Pregnant Women Using Shear WaveÂElastography: A Feasibility Study. Ultrasound in Medicine and Biology, 2015, 41, 2789-2797.	0.7	68

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127	Ex vivo optimisation of a heterogeneous speed of sound model of the human skull for non-invasive transcranial focused ultrasound at 1â€‰MHz. International Journal of Hyperthermia, 2017, 33, 635-645.	1.1	67
128	Multi-scale mapping along the auditory hierarchy using high-resolution functional UltraSound in the awake ferret. ELife, 2018, 7, .	2.8	67
129	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
130	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
131	The variance of quantitative estimates in shear wave imaging: Theory and experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2390-410.	1.7	65
132	Oxytocin receptor agonist reduces perinatal brain damage by targeting microglia. Glia, 2019, 67, 345-359.	2.5	65
133	In vivoquantification of the shear modulus of the human Achilles tendon during passive loading using shear wave dispersion analysis. Physics in Medicine and Biology, 2016, 61, 2485-2496.	1.6	64
134	In Vivo Mapping of Brain Elasticity in Small Animals Using Shear Wave Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 550-558.	5.4	63
135	Ultrasound-based imaging methods of the kidneyâ€”recent developments. Kidney International, 2016, 90, 1199-1210.	2.6	63
136	Contrast enhanced ultrasound by real-time spatiotemporal filtering of ultrafast images. Physics in Medicine and Biology, 2017, 62, 31-42.	1.6	63
137	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
138	Effects of nonlinear ultrasound propagation on high intensity brain therapy. Medical Physics, 2011, 38, 1207-1216.	1.6	61
139	Transcriptomic regulations in oligodendroglial and microglial cells related to brain damage following fetal growth restriction. Glia, 2016, 64, 2306-2320.	2.5	61
140	Ultrafast Harmonic Coherent Compound (UHCC) Imaging for High Frame Rate Echocardiography and Shear-Wave Elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 420-431.	1.7	61
141	4Din vivoultrafast ultrasound imaging using a row-column addressed matrix and coherently-compounded orthogonal plane waves. Physics in Medicine and Biology, 2017, 62, 4571-4588.	1.6	61
142	Ultrasound internal tattooing. Medical Physics, 2011, 38, 1116-1123.	1.6	60
143	Optimal transcostal high-intensity focused ultrasound with combined real-time 3D movement tracking and correction. Physics in Medicine and Biology, 2011, 56, 7061-7080.	1.6	59
144	Shear Wave Imaging of Passive DiastolicÂMyocardial Stiffness. JACC: Cardiovascular Imaging, 2016, 9, 1023-1030.	2.3	59

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145	Arterial Stiffness Assessment by Shear Wave Elastography and Ultrafast Pulse Wave Imaging: Comparison with Reference Techniques in Normotensives and Hypertensives. Ultrasound in Medicine and Biology, 2019, 45, 758-772.	0.7	59
146	Monitoring of Cornea Elastic Properties Changes during UV-A/Riboflavin-Induced Corneal Collagen Cross-Linking using Supersonic Shear Wave Imaging: A Pilot Study. , 2012, 53, 5948.		57
147	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. Scientific Reports, 2017, 7, 830.	1.6	57
148	Ultrafast imaging of the arterial pulse wave. Irbm, 2011, 32, 106-108.	3.7	56
149	Real time shear waves elastography monitoring of thermal ablation: inÂvivo evaluation in pig livers. Journal of Surgical Research, 2014, 188, 37-43.	0.8	56
150	Quantitative imaging of nonlinear shear modulus by combining static elastography and shear wave elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 833-839.	1.7	55
151	Transfer functions linking neural calcium to single voxel functional ultrasound signal. Nature Communications, 2020, 11, 2954.	5.8	55
152	Functional Ultrasound Imaging: A New Imaging Modality for Neuroscience. Neuroscience, 2021, 474, 110-121.	1.1	55
153	Imaging of Perfusion, Angiogenesis, and Tissue Elasticity after Stroke. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1496-1507.	2.4	54
154	From supersonic shear wave imaging to full-field optical coherence shear wave elastography. Journal of Biomedical Optics, 2013, 18, 121514.	1.4	54
155	In Vivo Evidence of Porcine Cornea Anisotropy Using Supersonic Shear Wave Imaging. , 2014, 55, 7545.		54
156	Carotid stiffness change over the cardiac cycle by ultrafast ultrasound imaging in healthy volunteers and vascular Ehlersâ€“Danlos syndrome. Journal of Hypertension, 2015, 33, 1890-1896.	0.3	54
157	Ultrafast Ultrasound Imaging in PediatricÂand Adult Cardiology. JACC: Cardiovascular Imaging, 2020, 13, 1771-1791.	2.3	54
158	The Aharonov-Bohm Effect Revisited by an Acoustic Time-Reversal Mirror. Physical Review Letters, 1997, 79, 3170-3173.	2.9	53
159	Revisiting iterative time reversal processing: Application to detection of multiple targets. Journal of the Acoustical Society of America, 2004, 115, 776-784.	0.5	53
160	Building three-dimensional images using a time-reversal chaotic cavity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1489-1497.	1.7	53
161	â€œUltrasonic starsâ€•for time-reversal focusing using induced cavitation bubbles. Applied Physics Letters, 2006, 88, 034102.	1.5	53
162	A 200â€“1380-kHz Quadrifrequency Focused Ultrasound Transducer for Neurostimulation in Rodents and Primates: Transcranial In Vitro Calibration and Numerical Study of the Influence of Skull Cavity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 717-724.	1.7	53

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163	Ultrafast imaging of in vivo muscle contraction using ultrasound. Applied Physics Letters, 2006, 89, 184107.	1.5	51
164	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
165	Supersonic Shear Wave Elastography for the In Vivo Evaluation of Transepithelial Corneal Collagen Cross-Linking. , 2014, 55, 1976.		51
166	4D Functional Imaging of the Rat Brain Using a Large Aperture Row-Column Array. IEEE Transactions on Medical Imaging, 2020, 39, 1884-1893.	5.4	51
167	Single-trial decoding of movement intentions using functional ultrasound neuroimaging. Neuron, 2021, 109, 1554-1566.e4.	3.8	51
168	Bedside functional monitoring of the dynamic brain connectivity in human neonates. Nature Communications, 2021, 12, 1080.	5.8	50
169	Detection of intrarenal microstructural changes with supersonic shear wave elastography in rats. European Radiology, 2012, 22, 243-250.	2.3	49
170	<italic>In Vivo</italic> Quantification of the Nonlinear Shear Modulus in Breast Lesions: Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 101-109.	1.7	48
171	Ultrasonic Adaptive Sound Speed Estimation for the Diagnosis and Quantification of Hepatic Steatosis: A Pilot Study. Ultraschall in Der Medizin, 2019, 40, 722-733.	0.8	48
172	Functional imaging evidence for task-induced deactivation and disconnection of a major default mode network hub in the mouse brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15270-15280.	3.3	48
173	Breaking of time reversal invariance in nonlinear acoustics. Physical Review E, 2001, 64, 016602.	0.8	46
174	A diffraction correction for storage and loss moduli imaging using radiation force based elastography. Physics in Medicine and Biology, 2017, 62, 91-106.	1.6	45
175	In vivo whole brain microvascular imaging in mice using transcranial 3D Ultrasound Localization Microscopy. EBioMedicine, 2022, 79, 103995.	2.7	45
176	Simultaneous positron emission tomography and ultrafast ultrasound for hybrid molecular, anatomical and functional imaging. Nature Biomedical Engineering, 2018, 2, 85-94.	11.6	44
177	Ultrafast Doppler for neonatal brain imaging. NeuroImage, 2019, 185, 851-856.	2.1	44
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