Mathias Fink

List of Publications by Year
in descending order

695 papers	48,998 citations	1301 · 109 h-index	1980 · 206 g-index
719 all docs	719 docs citations	719 times ranked	19093 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.	3.0	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.	3.0	1,364
3	Measuring the Transmission Matrix in Optics: An Approach to the Study and Control of Light Propagation in Disordered Media. Physical Review Letters, 2010, 104, 100601.	7.8	1,283
4	Time reversal of ultrasonic fields. I. Basic principles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1992, 39, 555-566.	3.0	1,246
5	Controlling waves in space and time for imaging and focusing in complex media. Nature Photonics, 2012, 6, 283-292.	31.4	1,150
6	Smart radio environments empowered by reconfigurable AI meta-surfaces: an idea whose time has come. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	1,020
7	EFSUMB Guidelines and Recommendations on the Clinical Use of Ultrasound Elastography. Part 1: Basic Principles and Technology. Ultraschall in Der Medizin, 2013, 34, 169-184.	1.5	961
8	Non-invasive single-shot imaging through scattering layers and around corners via speckle correlations. Nature Photonics, 2014, 8, 784-790.	31.4	805
9	EFSUMB Guidelines and Recommendations on the Clinical Use of Ultrasound Elastography.Part 2: Clinical Applications. Ultraschall in Der Medizin, 2013, 34, 238-253.	1.5	780
10	Time Reversed Acoustics. Physics Today, 1997, 50, 34-40.	0.3	726
11	Ultrasound elastography: Principles and techniques. Diagnostic and Interventional Imaging, 2013, 94, 487-495.	3.2	706
12	Quantitative Assessment of Breast Lesion Viscoelasticity: Initial Clinical Results Using Supersonic Shear Imaging. Ultrasound in Medicine and Biology, 2008, 34, 1373-1386.	1.5	654
13	Focusing Beyond the Diffraction Limit with Far-Field Time Reversal. Science, 2007, 315, 1120-1122.	12.6	648
14	Functional ultrasound imaging of the brain. Nature Methods, 2011, 8, 662-664.	19.0	589
15	Viscoelastic and Anisotropic Mechanical Properties of in vivo Muscle Tissue Assessed by Supersonic Shear Imaging. Ultrasound in Medicine and Biology, 2010, 36, 789-801.	1.5	577
16	Time-reversed acoustics. Reports on Progress in Physics, 2000, 63, 1933-1995.	20.1	566
17	Time Reversal of Electromagnetic Waves. Physical Review Letters, 2004, 92, 193904.	7.8	547
18	Image transmission through an opaque material. Nature Communications, 2010, 1, 81.	12.8	535

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19	Experimental demonstration of noninvasive transskull adaptive focusing based on prior computed tomography scans. Journal of the Acoustical Society of America, 2003, 113, 84-93.	1.1	486
20	Ultrafast imaging in biomedical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 102-119.	3.0	481
21	Negative refractive index and acoustic superlens from multiple scattering in single negative metamaterials. Nature, 2015, 525, 77-81.	27.8	476
22	Ultrafast imaging in biomedical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 102-119.	3.0	470
23	Breast Lesions: Quantitative Elastography with Supersonic Shear Imagingâ€"Preliminary Results. Radiology, 2010, 256, 297-303.	7.3	469
24	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807.	6.9	445
25	Viscoelastic shear properties of in vivo breast lesions measured by MR elastography. Magnetic Resonance Imaging, 2005, 23, 159-165.	1.8	441
26	Robust Acoustic Time Reversal with High-Order Multiple Scattering. Physical Review Letters, 1995, 75, 4206-4209.	7.8	384
27	Ultrafast compound doppler imaging: providing full blood flow characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 134-147.	3.0	384
28	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.	1.5	382
29	Quantitative Viscoelasticity Mapping of Human Liver Using Supersonic Shear Imaging: Preliminary In Vivo Feasability Study. Ultrasound in Medicine and Biology, 2009, 35, 219-229.	1.5	369
30	Decomposition of the time reversal operator: Detection and selective focusing on two scatterers. Journal of the Acoustical Society of America, 1996, 99, 2067-2076.	1.1	356
31	Shear Wave Spectroscopy for <i>In Vivo</i> Quantification of Human Soft Tissues Visco-Elasticity. IEEE Transactions on Medical Imaging, 2009, 28, 313-322.	8.9	355
32	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.	3.0	354
33	Shear modulus imaging with 2-D transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 426-435.	3.0	354
34	Shear elasticity probe for soft tissues with 1-D transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 436-446.	3.0	352
35	Time-Reversed Acoustics. Scientific American, 1999, 281, 91-97.	1.0	338
36	Eigenmodes of the time reversal operator: A solution to selective focusing in multiple-target media. Wave Motion, 1994, 20, 151-163.	2.0	334

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37	Measurement of viscoelastic properties of homogeneous soft solid using transient elastography: An inverse problem approach. Journal of the Acoustical Society of America, 2004, 116, 3734-3741.	1.1	329
38	Imaging anisotropic and viscous properties of breast tissue by magnetic resonance-elastography. Magnetic Resonance in Medicine, 2005, 53, 372-387.	3.0	329
39	In vivo breast tumor detection using transient elastography. Ultrasound in Medicine and Biology, 2003, 29, 1387-1396.	1.5	314
40	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.	1.1	312
41	Quantitative Assessment of Arterial Wall Biomechanical Properties Using Shear Wave Imaging. Ultrasound in Medicine and Biology, 2010, 36, 1662-1676.	1.5	305
42	Time-reversal of ultrasonic fields. III. Theory of the closed time-reversal cavity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1992, 39, 579-592.	3.0	302
43	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.	3.0	295
44	3D ultrafast ultrasound imaging<i>in vivo</i>. Physics in Medicine and Biology, 2014, 59, L1-L13.	3.0	290
45	Wave propagation control at the deep subwavelength scale inÂmetamaterials. Nature Physics, 2013, 9, 55-60.	16.7	282
46	Ultrasonic beam focusing through tissue inhomogeneities with a time reversal mirror: application to transskull therapy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1996, 43, 1122-1129.	3.0	268
47	Time reversal and the inverse filter. Journal of the Acoustical Society of America, 2000, 108, 223-234.	1.1	268
48	Acoustic time-reversal mirrors. Inverse Problems, 2001, 17, R1-R38.	2.0	268
49	The van Cittertâ€“Zernike theorem in pulse echo measurements. Journal of the Acoustical Society of America, 1991, 90, 2718-2727.	1.1	262
50	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.	1.1	250
51	A solution to diffraction biases in sonoelasticity: The acoustic impulse technique. Journal of the Acoustical Society of America, 1999, 105, 2941-2950.	1.1	246
52	Time reversal of ultrasonic fields. II. Experimental results. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1992, 39, 567-578.	3.0	238
53	Transient elastography in anisotropic medium: Application to the measurement of slow and fast shear wave speeds in muscles. Journal of the Acoustical Society of America, 2003, 114, 536-541.	1.1	236
54	One-Channel Time Reversal of Elastic Waves in a Chaotic 2D-Silicon Cavity. Physical Review Letters, 1997, 79, 407-410.	7.8	233

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55	Functional ultrasound imaging of the brain: theory and basic principles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 492-506.	3.0	232
56	Controlling light through optical disordered media: transmission matrix approach. New Journal of Physics, 2011, 13, 123021.	2.9	224
57	Overcoming the Diffraction Limit in Wave Physics Using a Time-Reversal Mirror and a Novel Acoustic Sink. Physical Review Letters, 2002, 89, 124301.	7.8	223
58	Self focusing in inhomogeneous media with time reversal acoustic mirrors. , 0, , .		222
59	Time-Resolved Pulsed Elastography with Ultrafast Ultrasonic Imaging. Ultrasonic Imaging, 1999, 21, 259-272.	2.6	217
60	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.	3.0	215
61	Controlling light in scattering media non-invasively using the photoacoustic transmission matrix. Nature Photonics, 2014, 8, 58-64.	31.4	215
62	Adaptive focusing in scattering media through soundâ€speed inhomogeneities: The van Cittert Zernike approach and focusing criterion. Journal of the Acoustical Society of America, 1994, 96, 3721-3732.	1.1	207
63	Acoustic Resonators for Far-Field Control of Sound on a Subwavelength Scale. Physical Review Letters, 2011, 107, 064301.	7.8	204
64	How to estimate the Greenâ€™s function of a heterogeneous medium between two passive sensors? Application to acoustic waves. Applied Physics Letters, 2003, 83, 3054-3056.	3.3	202
65	Resonant Metalenses for Breaking the Diffraction Barrier. Physical Review Letters, 2010, 104, 203901.	7.8	202
66	In Vivo Quantitative Mapping of Myocardial Stiffening and Transmural Anisotropy During the Cardiac Cycle. IEEE Transactions on Medical Imaging, 2011, 30, 295-305.	8.9	202
67	High-contrast ultrafast imaging of the heart. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 288-301.	3.0	200
68	The iterative time reversal process: Analysis of the convergence. Journal of the Acoustical Society of America, 1995, 97, 62-71.	1.1	198
69	High-Resolution Quantitative Imaging of Cornea Elasticity Using Supersonic Shear Imaging. IEEE Transactions on Medical Imaging, 2009, 28, 1881-1893.	8.9	198
70	Optimal focusing by spatio-temporal inverse filter. I. Basic principles. Journal of the Acoustical Society of America, 2001, 110, 37-47.	1.1	191
71	Realâ€time visualization of muscle stiffness distribution with ultrasound shear wave imaging during muscle contraction. Muscle and Nerve, 2010, 42, 438-441.	2.2	191
72	Non-invasive transcranial ultrasound therapy based on a 3D CT scan: protocol validation and<i>in vitro</i>results. Physics in Medicine and Biology, 2009, 54, 2597-2613.	3.0	189

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73	Time-reversed Lamb waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1032-1043.	3.0	188
74	High power transcranial beam steering for ultrasonic brain therapy. Physics in Medicine and Biology, 2003, 48, 2577-2589.	3.0	184
75	Taking Advantage of Multiple Scattering to Communicate with Time-Reversal Antennas. Physical Review Letters, 2003, 90, 014301.	7.8	182
76	Crystalline metamaterials for topological properties at subwavelength scales. Nature Communications, 2017, 8, 16023.	12.8	181
77	Time-Reversal Acoustics in Biomedical Engineering. Annual Review of Biomedical Engineering, 2003, 5, 465-497.	12.3	179
78	Time reversal and holography with spacetimeÂtransformations. Nature Physics, 2016, 12, 972-977.	16.7	169
79	The iterative time reversal mirror: A solution to selfâ€focusing in the pulse echo mode. Journal of the Acoustical Society of America, 1991, 90, 1119-1129.	1.1	165
80	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.	1.1	165
81	Time-reversal mirrors. Journal Physics D: Applied Physics, 1993, 26, 1333-1350.	2.8	164
82	Ultrasonic pulse compression with one-bit time reversal through multiple scattering. Journal of Applied Physics, 1999, 85, 6343-6352.	2.5	163
83	Imaging from one-bit correlations of wideband diffuse wave fields. Journal of Applied Physics, 2004, 95, 8393-8399.	2.5	163
84	Influence of the pressure field distribution in transcranial ultrasonic neurostimulation. Medical Physics, 2013, 40, 082902.	3.0	162
85	Human muscle hardness assessment during incremental isometric contraction using transient elastography. Journal of Biomechanics, 2005, 38, 1543-1550.	2.1	160
86	In solid localization of finger impacts using acoustic time-reversal process. Applied Physics Letters, 2005, 87, 204104.	3.3	159
87	Time-reversal imaging of seismic sources and application to the great Sumatra earthquake. Geophysical Research Letters, 2006, 33, .	4.0	156
88	In vivo transcranial brain surgery with an ultrasonic time reversal mirror. Journal of Neurosurgery, 2007, 106, 1061-1066.	1.6	155
89	Shaping complex microwave fields in reverberating media with binary tunable metasurfaces. Scientific Reports, 2014, 4, 6693.	3.3	155
90	Ultrasound contrast plane wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2676-83.	3.0	149

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91	Ultrasonic Signal Processing for <u>in Vivo</u> Attenuation Measurement: Short Time Fourier Analysis. Ultrasonic Imaging, 1983, 5, 117-135.	2.6	147
92	Mapping Myocardial Fiber Orientation Using Echocardiography-Based Shear Wave Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 554-562.	8.9	144
93	Sono-activated ultrasound localization microscopy. Applied Physics Letters, 2013, 103, .	3.3	144
94	Diffraction field of a low frequency vibrator in soft tissues using transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1999, 46, 1013-1019.	3.0	137
95	One-channel time-reversal in chaotic cavities: Theoretical limits. Journal of the Acoustical Society of America, 1999, 105, 611-617.	1.1	137
96	Topological acoustic polaritons: robust sound manipulation at the subwavelength scale. New Journal of Physics, 2017, 19, 075003.	2.9	137
97	Electrical Impedance Tomography by Elastic Deformation. SIAM Journal on Applied Mathematics, 2008, 68, 1557-1573.	1.8	136
98	Early Detection of Steatohepatitis in Fatty Rat Liver by Using MR Elastography. Radiology, 2009, 253, 90-97.	7.3	134
99	Simulation of Intracranial Acoustic Fields in Clinical Trials of Sonothrombolysis. Ultrasound in Medicine and Biology, 2009, 35, 1148-1158.	1.5	134
100	Smart optical coherence tomography for ultra-deep imaging through highly scattering media. Science Advances, 2016, 2, e1600370.	10.3	130
101	One-channel time-reversal in chaotic cavities: Experimental results. Journal of the Acoustical Society of America, 1999, 105, 618-625.	1.1	121
102	Assessment of elastic parameters of human skin using dynamic elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 980-989.	3.0	121
103	Diffraction Effects in Pulse-Echo Measurement. IEEE Transactions on Sonics and Ultrasonics, 1984, 31, 313-329.	0.9	120
104	Temperature estimation using ultrasonic spatial compound imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 606-615.	3.0	118
105	Theory of Electromagnetic Time-Reversal Mirrors. IEEE Transactions on Antennas and Propagation, 2010, 58, 3139-3149.	5.1	118
106	Time-Dependent Coherent Backscattering of Acoustic Waves. Physical Review Letters, 1997, 79, 3637-3639.	7.8	117
107	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. Physics in Medicine and Biology, 2010, 55, 1701-1718.	3.0	117
108	3-D real-time motion correction in high-intensity focused ultrasound therapy. Ultrasound in Medicine and Biology, 2004, 30, 1239-1249.	1.5	116

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109	Monitoring Thermally-Induced Lesions with Supersonic Shear Imaging. Ultrasonic Imaging, 2004, 26, 71-84.	2.6	115
110	Random multiple scattering of ultrasound. II. Is time reversal a self-averaging process?. Physical Review E, 2001, 64, 036606.	2.1	114
111	Design and characterization of bubble phononic crystals. Applied Physics Letters, 2009, 95, .	3.3	114
112	Time reversal techniques in ultrasonic nondestructive testing of scattering media. Inverse Problems, 2002, 18, 1761-1773.	2.0	109
113	Time reversal of wideband microwaves. Applied Physics Letters, 2006, 88, 154101.	3.3	107
114	Time reversal in a waveguide: Study of the temporal and spatial focusing. Journal of the Acoustical Society of America, 2000, 107, 2418-2429.	1.1	106
115	Ultrafast Imaging of Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2009, 35, 1908-1916.	1.5	106
116	Time-reversal acoustics in complex environments. Geophysics, 2006, 71, SI151-SI164.	2.6	105
117	Theory of the time reversal cavity for electromagnetic fields. Optics Letters, 2007, 32, 3107.	3.3	105
118	Transcostal high-intensity-focused ultrasound:<i>ex vivo</i>adaptive focusing feasibility study. Physics in Medicine and Biology, 2008, 53, 2937-2951.	3.0	104
119	A polychromatic approach to far-field superlensing at visible wavelengths. Nature Communications, 2012, 3, 889.	12.8	102
120	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.	1.1	101
121	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.	3.0	101
122	MR-guided adaptive focusing of therapeutic ultrasound beams in the human head. Medical Physics, 2012, 39, 1141-1149.	3.0	98
123	Compensating for bone interfaces and respiratory motion in high-intensity focused ultrasound. International Journal of Hyperthermia, 2007, 23, 141-151.	2.5	96
124	Time reversal processing in ultrasonic nondestructive testing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1995, 42, 1087-1098.	3.0	95
125	Shaping reverberating sound fields with an actively tunable metasurface. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6638-6643.	7.1	95
126	Observation of Shock Transverse Waves in Elastic Media. Physical Review Letters, 2003, 91, 164301.	7.8	94

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127	Measurement of elastic nonlinearity of soft solid with transient elastography. Journal of the Acoustical Society of America, 2003, 114, 3087-3091.	1.1	93
128	Time Reversal Focusing Applied to Lithotripsy. Ultrasonic Imaging, 1996, 18, 106-121.	2.6	90
129	Greenâ€™s function estimation using secondary sources in a shallow water environment. Journal of the Acoustical Society of America, 2003, 113, 1406-1416.	1.1	90
130	Optimally diverse communication channels in disordered environments with tuned randomness. Nature Electronics, 2019, 2, 36-41.	26.0	88
131	Time-Reversal Generation of Rogue Waves. Physical Review Letters, 2014, 112, 124101.	7.8	87
132	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.	3.0	85
133	Time-reversal in an ultrasonic waveguide. Applied Physics Letters, 1997, 70, 1811-1813.	3.3	84
134	Microbubble ultrasound super-localization imaging (MUSLI). , 2011, , .		84
135	Highly resolved detection and selective focusing in a waveguide using the D.O.R.T. method. Journal of the Acoustical Society of America, 1999, 105, 2634-2642.	1.1	83
136	Multiwave imaging and super resolution. Physics Today, 2010, 63, 28-33.	0.3	83
137	Sound focusing in rooms: The time-reversal approach. Journal of the Acoustical Society of America, 2003, 113, 1533-1543.	1.1	82
138	3D functional ultrasound imaging of the cerebral visual system in rodents. NeuroImage, 2017, 149, 267-274.	4.2	82
139	MR-guided transcranial brain HIFU in small animal models. Physics in Medicine and Biology, 2010, 55, 365-388.	3.0	81
140	Exploiting the Time-Reversal Operator for Adaptive Optics, Selective Focusing, and Scattering Pattern Analysis. Physical Review Letters, 2011, 107, 263901.	7.8	81
141	Separation of interfering acoustic scattered signals using the invariants of the time-reversal operator. Application to Lamb waves characterization. Journal of the Acoustical Society of America, 1998, 104, 801-807.	1.1	80
142	Multiple scattering of sound. Waves in Random and Complex Media, 2000, 10, R31-R60.	1.5	79
143	In vivo high resolution human corneal imaging using full-field optical coherence tomography. Biomedical Optics Express, 2018, 9, 557.	2.9	79
144	Sonic boom in soft materials: The elastic Cerenkov effect. Applied Physics Letters, 2004, 84, 2202-2204.	3.3	78

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145	<i>In vivo</i>bubble nucleation probability in sheep brain tissue. Physics in Medicine and Biology, 2011, 56, 7001-7015.	3.0	71
146	Technical design report for the $overline{P}$ ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
147	Ultrafast Doppler Reveals the Mapping of Cerebral Vascular Resistivity in Neonates. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1009-1017.	4.3	71
148	Dynamic full-field optical coherence tomography: 3D live-imaging of retinal organoids. Light: Science and Applications, 2020, 9, 140.	16.6	71
149	Transcranial Ultrasonic Therapy Based on Time Reversal of Acoustically Induced Cavitation Bubble Signature. IEEE Transactions on Biomedical Engineering, 2010, 57, 134-144.	4.2	70
150	Random multiple scattering of ultrasound.â€ƒI.â€ƒCoherent and ballistic waves. Physical Review E, 2001, 64, 036605.	2.1	69
151	Adaptive focusing for transcranial ultrasound imaging using dual arrays. Journal of the Acoustical Society of America, 2006, 120, 2737-2745.	1.1	69
152	Composite media mixing Bragg and local resonances for highly attenuating and broad bandgaps. Scientific Reports, 2013, 3, 3240.	3.3	69
153	Real time inverse filter focusing through iterative time reversal. Journal of the Acoustical Society of America, 2004, 115, 768-775.	1.1	68
154	Phononic crystals. Physica Status Solidi (B): Basic Research, 2004, 241, 3454-3462.	1.5	66
155	Acoustic Time-Reversal Mirrors. , 2002, , 17-43.		65
156	The variance of quantitative estimates in shear wave imaging: Theory and experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2390-410.	3.0	65
157	Coherent Backscattering of an Elastic Wave in a Chaotic Cavity. Physical Review Letters, 2000, 84, 1693-1695.	7.8	64
158	The role of the coupling term in transient elastography. Journal of the Acoustical Society of America, 2004, 115, 73-83.	1.1	63
159	In Vivo Mapping of Brain Elasticity in Small Animals Using Shear Wave Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 550-558.	8.9	63
160	The laserâ€generated ultrasonic phased array: Analysis and experiments. Journal of the Acoustical Society of America, 1993, 94, 1934-1943.	1.1	62
161	Transport parameters for an ultrasonic pulsed wave propagating in a multiple scattering medium. Journal of the Acoustical Society of America, 2000, 108, 503-512.	1.1	62
162	Manipulating Spatiotemporal Degrees of Freedom of Waves in Random Media. Physical Review Letters, 2009, 103, 173902.	7.8	62

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163	Targeting accuracy of transcranial magnetic resonanceâ€“guided high-intensity focused ultrasound brain therapy: a fresh cadaver model. Journal of Neurosurgery, 2013, 118, 1046-1052.	1.6	62
164	Effects of nonlinear ultrasound propagation on high intensity brain therapy. Medical Physics, 2011, 38, 1207-1216.	3.0	61
165	Wave-Field Shaping in Cavities: Waves Trapped in a Box with Controllable Boundaries. Physical Review Letters, 2015, 115, 017701.	7.8	61
166	<title>Improved imaging rate through simultaneous transmission of several ultrasound beams</title>. , 1992, 1733, 120.		59
167	Optimal transcostal high-intensity focused ultrasound with combined real-time 3D movement tracking and correction. Physics in Medicine and Biology, 2011, 56, 7061-7080.	3.0	59
168	Hybridized resonances to design tunable binary phase metasurface unit cells. Optics Express, 2014, 22, 18881.	3.4	59
169	Generation of very high pressure pulses with 1-bit time reversal in a solid waveguide. Journal of the Acoustical Society of America, 2001, 110, 2849-2857.	1.1	58
170	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
171	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. Scientific Reports, 2017, 7, 830.	3.3	57
172	Slow waves in locally resonant metamaterials line defect waveguides. Scientific Reports, 2017, 7, 15105.	3.3	57
173	Focusing in transmitâ€“receive mode through inhomogeneous media: The time reversal matched filter approach. Journal of the Acoustical Society of America, 1995, 98, 1155-1162.	1.1	56
174	Time reversal in acoustics. Contemporary Physics, 1996, 37, 95-109.	1.8	56
175	Experimental detection and focusing in shallow water by decomposition of the time reversal operator. Journal of the Acoustical Society of America, 2007, 122, 761-768.	1.1	56
176	Ultrafast imaging of the arterial pulse wave. Irbm, 2011, 32, 106-108.	5.6	56
177	Time Reversal Focusing Applied to Lithotripsy. Ultrasonic Imaging, 1996, 18, 106-121.	2.6	55
178	Theory of the time-reversal process in solids. Journal of the Acoustical Society of America, 1997, 102, 1289-1295.	1.1	55
179	Ultrasonic nondestructive testing of scattering media using the decomposition of the time-reversal operator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1103-1113.	3.0	54
180	From supersonic shear wave imaging to full-field optical coherence shear wave elastography. Journal of Biomedical Optics, 2013, 18, 121514.	2.6	54

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181	In Vivo Evidence of Porcine Cornea Anisotropy Using Supersonic Shear Wave Imaging. , 2014, 55, 7545.		54
182	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.	0.5	54
183	The Aharonov-Bohm Effect Revisited by an Acoustic Time-Reversal Mirror. Physical Review Letters, 1997, 79, 3170-3173.	7.8	53
184	Revisiting iterative time reversal processing: Application to detection of multiple targets. Journal of the Acoustical Society of America, 2004, 115, 776-784.	1.1	53
185	Building three-dimensional images using a time-reversal chaotic cavity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1489-1497.	3.0	53
186	â€œUltrasonic starsâ€•for time-reversal focusing using induced cavitation bubbles. Applied Physics Letters, 2006, 88, 034102.	3.3	53
187	Time reversal of electromagnetic waves and telecommunication. Radio Science, 2005, 40, n/a-n/a.	1.6	52
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