

# Mathias Fink

## List of Publications by Year in descending order

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Version: 2024-02-01

695  
papers

48,998  
citations

1531

109  
h-index

2289

206  
g-index

719  
all docs

719  
docs citations

719  
times ranked

21498  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unidirectional amplification with acoustic non-Hermitian space-time varying metamaterial. Communications Physics, 2022, 5, .	2.0	27
2	Optical phase modulation by natural eye movements: application to time-domain FF-OCT image retrieval. Biomedical Optics Express, 2022, 13, 902.	1.5	4
3	Physicists in a World of Wireless Communications: A Noisy Connection? [Industry Activities]. IEEE Antennas and Propagation Magazine, 2022, 64, 89-94.	1.2	0
4	Static-to-dynamic field conversion with time-varying media. Physical Review B, 2022, 105, .	1.1	5
5	Dynamic full-field optical coherence tomography allows live imaging of retinal pigment epithelium stress model. Communications Biology, 2022, 5, .	2.0	10
6	Passive detection in water pipelines using ambient noise II: Field experiments. Mechanical Systems and Signal Processing, 2022, 181, 109524.	4.4	3
7	Manifestation of aberrations in full-field optical coherence tomography. Optics Express, 2021, 29, 22044.	1.7	14
8	Negative Transient Flux in the Near Field of a Subwavelength Source. Physical Review Applied, 2021, 16, .	1.5	1
9	Fourier transform acousto-optic imaging with off-axis holographic detection. Applied Optics, 2021, 60, 7107.	0.9	4
10	Passive imaging of water pipelines using ambient turbulence noise. Mechanical Systems and Signal Processing, 2021, 160, 107882.	4.4	6
11	Experimental Demonstration of a mmWave Passive Access Point Extender Based on a Binary Reconfigurable Intelligent Surface. Frontiers in Communications and Networks, 2021, 2, .	1.9	22
12	Detecting subcellular dynamic behaviours with dynamic full-field OCT on stressed retinal pigment epithelium cell cultures. , 2021, , .		1
13	Time Reversal Precoding at SubTHz Frequencies: Experimental Results on Spatiotemporal Focusing. , 2021, , .		3
14	Experimental reconstruction of extreme sea waves by time reversal principle. Journal of Fluid Mechanics, 2020, 884, .	1.4	11
15	How a moving passive observer can perceive its environment? The Unruh effect revisited. Wave Motion, 2020, 93, 102462.	1.0	1
16	Distortion matrix concept for deep optical imaging in scattering media. Science Advances, 2020, 6, eaay7170.	4.7	37
17	Dynamic full-field optical coherence tomography: 3D live-imaging of retinal organoids. Light: Science and Applications, 2020, 9, 140.	7.7	71
18	Reflection Matrix Approach for Quantitative Imaging of Scattering Media. Physical Review X, 2020, 10, .	2.8	22

#	ARTICLE	IF	CITATIONS
19	Functional ultrasound imaging of deep visual cortex in awake nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14453-14463.	3.3	44
20	Distortion matrix approach for ultrasound imaging of random scattering media. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14645-14656.	3.3	35
21	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807.	4.4	445
22	Reversible Hardware for Acoustic Communications. IEEE Communications Magazine, 2020, 58, 55-61.	4.9	27
23	Real-time non-contact cellular imaging and angiography of human cornea and limbus with common-path full-field/SD OCT. Nature Communications, 2020, 11, 1868.	5.8	32
24	Coherence gate shaping for wide field high-resolution in vivo retinal imaging with full-field OCT. Biomedical Optics Express, 2020, 11, 4928.	1.5	14
25	Distortion matrix concept for deep imaging in optical microscopy. , 2020, , .		0
26	High resolution laser Doppler holography of retinal blood flow by spatiotemporal eigenvalue filtering and rephasing. , 2020, , .		0
27	Vascular occlusion monitoring in the eye fundus by laser Doppler holography. , 2020, , .		0
28	Adaptive Glasses Full-Field OCT with axial tracking for 3D high-resolution retinal imaging. , 2020, , .		0
29	Curved-field optical coherence tomography: large-field imaging of human corneal cells and nerves. Optica, 2020, 7, 872.	4.8	19
30	Array of time reversal transceivers: An application to acoustic focusing. , 2019, , .		1
31	Smart radio environments empowered by reconfigurable AI meta-surfaces: an idea whose time has come. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	1,020
32	Time-Reversal by Time-Dependent Perturbations. SIAM Journal on Applied Mathematics, 2019, 79, 754-780.	0.8	6
33	Drastic slowdown of the Rayleigh-like wave in unjammed granular suspensions. Physical Review E, 2019, 99, 042902.	0.8	7
34	Phase-conjugate mirror for water waves driven by the Faraday instability. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8809-8814.	3.3	21
35	Left-handed band in an electromagnetic metamaterial induced by sub-wavelength multiple scattering. Applied Physics Letters, 2019, 114, .	1.5	14
36	Precision resonance energy scans with the PANDA experiment at FAIR. European Physical Journal A, 2019, 55, 1.	1.0	27

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37	Active Control of the Spoof Plasmon Propagation in Time Varying and Non-reciprocal Metamaterial. Scientific Reports, 2019, 9, 2368.	1.6	7
38	Probing dynamic processes in the eye at multiple spatial and temporal scales with multimodal full field OCT. Biomedical Optics Express, 2019, 10, 731.	1.5	34
39	Controlling light in complex media beyond the acoustic diffraction-limit using the acousto-optic transmission matrix. Nature Communications, 2019, 10, 717.	5.8	31
40	2D airborne ultrasound piezotransducer arrays for corneal imaging. , 2019, , .		0
41	Observation of the Talbot effect with water waves. American Journal of Physics, 2019, 87, 38-43.	0.3	9
42	Optimally diverse communication channels in disordered environments with tuned randomness. Nature Electronics, 2019, 2, 36-41.	13.1	88
43	Technical design report for the $\overline{\{m\{P\}}\mathrm{AND}}\}$ Barrel DIRC detector. Journal of Physics C: Nuclear and Particle Physics, 2019, 46, 045001.$	1.4	28
44	Choroidal vasculature imaging with laser Doppler holography. Biomedical Optics Express, 2019, 10, 995.	1.5	27
45	Waveform analysis of human retinal and choroidal blood flow with laser Doppler holography. Biomedical Optics Express, 2019, 10, 4942.	1.5	18
46	Matrix approach of Full-Field OCT for volumetric imaging of an opaque human cornea. , 2019, , .		0
47	Ultrafast digital holography for in vivo retinal blood flow imaging and assessment of flow resistance. , 2019, , .		0
48	Analysis of retinal and choroidal images measured by laser Doppler holography. , 2019, , .		0
49	Layer potential approach for fast eigenvalue characterization of the Helmholtz equation with mixed boundary conditions. Computational and Applied Mathematics, 2018, 37, 4675-4685.	1.3	2
50	Dynamic Metasurface Aperture as Smart Around-the-Corner Motion Detector. Scientific Reports, 2018, 8, 6536.	1.6	26
51	Towards anti-causal Green's function for three-dimensional sub-diffraction focusing. Nature Physics, 2018, 14, 608-612.	6.5	48
52	Effect of microstructural elongation on backscattered field: Intensity measurement and multiple scattering estimation with a linear transducer array. Ultrasonics, 2018, 82, 379-389.	2.1	5
53	Towards a quantum time mirror for non-relativistic wave packets. New Journal of Physics, 2018, 20, 033013.	1.2	4
54	Non-Contact Surface Wave Elastography Using 40 kHz Airborne Ultrasound Surface Motion Camera. , 2018, , .		1



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73	Experimental study of multiple scattering in anisotropic titanium alloys. AIP Conference Proceedings, 2017, , .	0.3	1
74	Crystalline metamaterials for topological properties at subwavelength scales. Nature Communications, 2017, 8, 16023.	5.8	181
75	Topological acoustic polaritons: robust sound manipulation at the subwavelength scale. New Journal of Physics, 2017, 19, 075003.	1.2	137
76	Combining FF-OCT with SD-OCT for retinal imaging. , 2017, , . Feasibility study for the measurement of $\langle \text{mml:math} \text{xmlns:mml=} \text{"http://www.w3.org/1998/Math/MathML"} \text{display=} \text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$		1
77	transition distribution amplitudes at $\langle \text{mml:math} \text{xmlns:mml=} \text{"http://www.w3.org/1998/Math/MathML"} \text{display=} \text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \text{accent=} \text{"true"} \rangle \langle \text{mml:mi} \text{mathvariant=} \text{"sans-serif"} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \text{accent=} \text{"true"} \text{stretchy=} \text{"fals"} \rangle$	1.6	21
78	Dirac quantum time mirror. Physical Review B, 2017, 95, .	1.1	12
79	Soda Cans Metamaterial: Homogenization and Beyond. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 205-250.	0.1	0
80	Dynamic multimodal full-field optical coherence tomography and fluorescence structured illumination microscopy. Journal of Biomedical Optics, 2017, 22, 1.	1.4	32
81	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. Scientific Reports, 2017, 7, 830.	1.6	57
82	From the time-reversal mirror to the instantaneous time mirror. European Physical Journal: Special Topics, 2017, 226, 1477-1486.	1.2	8
83	A resolution insensitive to geometrical aberrations by using incoherent illumination and interference imaging. European Physical Journal: Special Topics, 2017, 226, 1603-1621.	1.2	3
84	Topological spoof plasmon polaritons based on C6-symmetric crystalline metasurfaces. , 2017, , .		1
85	Shaping Microwave Fields Using Nonlinear Unsolicited Feedback: Application to Enhance Energy Harvesting. Physical Review Applied, 2017, 8, .	1.5	16
86	Slow waves in locally resonant metamaterials line defect waveguides. Scientific Reports, 2017, 7, 15105.	1.6	57
87	Crystalline Soda Can Metamaterial exhibiting Graphene-like Dispersion at subwavelength scale. Scientific Reports, 2017, 7, 15359.	1.6	19
88	Multiple scattering limit in optical microscopy. Optics Express, 2017, 25, 28914.	1.7	32
89	Full-Field Optical Coherence Tomography as a Diagnosis Tool: Recent Progress with Multimodal Imaging. Applied Sciences (Switzerland), 2017, 7, 236.	1.3	29
90	Cell Motility as Contrast Agent in Retinal Explant Imaging With Full-Field Optical Coherence Tomography. , 2017, 58, 4605.		33

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91	Contactless Mapping of Thoracic and Abdominal Movements: Applications for Seismocardiography. , 2017, , .		1
92	Subwavelength focusing and imaging from the far field using time reversal in subwavelength scaled resonant media. , 2017, , .		1
93	Ambient noise correlation-based imaging with moving sensors. Inverse Problems and Imaging, 2017, 11, 477-500.	0.6	1
94	Smart optical coherence tomography for ultra-deep imaging through highly scattering media. , 2017, , .		1
95	Matrix Approach of Eye Optical Imaging. , 2017, , .		0
96	Beating the Diffraction Limit with Positive Refraction: The Resonant Metalens Approach. , 2017, , 33-90.		0
97	Soda Cans Metamaterial: A Subwavelength-Scaled Phononic Crystal. Crystals, 2016, 6, 82.	1.0	44
98	3D airborne ultrasound vibrometer for the detection of skin surface heterogeneities. , 2016, , .		2
99	Spatio-temporal imaging of light transport in highly scattering media under white light illumination. Optica, 2016, 3, 1160.	4.8	12
100	Time reversal and holography with spacetime transformations. Nature Physics, 2016, 12, 972-977.	6.5	169
101	A matrix approach for optical detection and imaging through highly scattering media (Conference) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlock		
102	Chapter 12 Time Reversal of Linear and Nonlinear Water Waves. , 2016, , 401-436.		0
103	Spatiotemporal response of rat visual cortex during moving stimuli using Functional Ultrasound (fUS) imaging. , 2016, , .		1
104	Diffuse shear wave imaging: toward passive elastography using low-frame rate spectral-domain optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 126013.	1.4	34
105	Spatio-temporal imaging of light transport in scattering media using white light illumination (Conference Presentation). , 2016, , .		0
106	From Loschmidt daemons to time-reversed waves. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150156.	1.6	10
107	Spatio-temporal imaging of light transport in strongly scattering media. , 2016, , .		0
108	Adaptive optics full-field optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 121505.	1.4	13

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109	Spatiotemporal Wave Front Shaping in a Microwave Cavity. <i>Physical Review Letters</i> , 2016, 117, 134302.	2.9	41
110	Full-field spatially incoherent illumination interferometry: a spatial resolution almost insensitive to aberrations. <i>Optics Letters</i> , 2016, 41, 3920.	1.7	41
111	Exploiting spatiotemporal degrees of freedom for far-field subwavelength focusing using time reversal in fractals. <i>Physical Review B</i> , 2016, 93, .	1.1	6
112	High speed optical holography of retinal blood flow. <i>Optics Letters</i> , 2016, 41, 3503.	1.7	10
113	Smart optical coherence tomography for ultra-deep imaging through highly scattering media. <i>Science Advances</i> , 2016, 2, e1600370.	4.7	130
114	Feasibility studies of time-like proton electromagnetic form factors at $\sqrt{s} = 1.02033$ GeV at FAIR. <i>European Physical Journal A</i> , 2016, 52, 1.	1.0	31
115	Quantitative phase imaging technologies to assess neuronal activity (Conference Presentation). , 2016, , .		0
116	Adaptive optics full-field OCT: a resolution almost insensitive to aberrations (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (		0
117	Synchronous multimodal combination of full-field OCT and structured illumination fluorescence microscopy (Conference Presentation). , 2016, , .		0
118	An optical tomography PSF almost insensitive to aberrations: the benefit of a spatial incoherent illumination (Conference Presentation). , 2016, , .		2
119	Time-reversal of nonlinear waves: Applicability and limitations. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	15
120	Holographic imaging of pulsatile microvascular blood flow in the cerebral cortex. , 2016, , .		0
121	Pulsatile microvascular blood flow imaging by short-time Fourier transform analysis of ultrafast laser holographic interferometry. , 2015, , .		0
122	Subwavelength focusing in bubbly media using broadband time reversal. <i>Physical Review B</i> , 2015, 91, .	1.1	43
123	Acoustic imaging with time reversal methods: From medicine to NDT. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	5
124	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
125	Super-resolution in time-reversal focusing on a moving source. <i>Wave Motion</i> , 2015, 53, 80-93.	1.0	20
126	Scanning-free imaging through a single fiber by random spatio-spectral encoding. <i>Optics Letters</i> , 2015, 40, 534.	1.7	37



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127	Retrieving Time-Dependent Green's Functions in Optics with Low-Coherence Interferometry. Physical Review Letters, 2015, 114, 023901.	2.9	19
128	Experimental access to Transition Distribution Amplitudes with the PANDA experiment at FAIR. European Physical Journal A, 2015, 51, 1.	1.0	29
129	Wave-Field Shaping in Cavities: Waves Trapped in a Box with Controllable Boundaries. Physical Review Letters, 2015, 115, 017701.	2.9	61
130	Negative refractive index and acoustic superlens from multiple scattering in single negative metamaterials. Nature, 2015, 525, 77-81.	13.7	476
131	Retrieving time-dependent Green's functions in optics with low-coherence interferometry. , 2015, , .		1
132	Overcoming multiple scattering for detection and imaging in strongly scattering media. , 2015, , .		0
133	Optical Detection and Imaging in Complex Media: How the Memory Effect Can Help Overcome Multiple Scattering. , 2015, , .		0
134	Time Reversal, Applications and Experiments. , 2015, , 1477-1486.		0
135	Transmission Glass-Like Aberrations Correction for Full-Field OCT Imaging. , 2015, , .		1
136	Shaping complex microwave fields in reverberating media with binary tunable metasurfaces. Scientific Reports, 2014, 4, 6693.	1.6	155
137	3D ultrafast ultrasound imaging <i>in vivo</i> . Physics in Medicine and Biology, 2014, 59, L1-L13.	1.6	290
138	Ultrafast imaging in biomedical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 102-119.	1.7	470
139	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
140	Hybridized resonances to design tunable binary phase metasurface unit cells. Optics Express, 2014, 22, 18881.	1.7	59
141	In Vivo Evidence of Porcine Cornea Anisotropy Using Supersonic Shear Wave Imaging. , 2014, 55, 7545.		54
142	Ultrafast acoustoelectric imaging. , 2014, , .		4
143	Ultrafast imaging in biomedical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 102-119.	1.7	481
144	Use of shear wave elastography for monitoring enzymatic milk coagulation. Journal of Food Engineering, 2014, 136, 73-79.	2.7	6

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145	Using Subwavelength Diffraction Gratings to Design Open Electromagnetic Cavities. Physical Review Letters, 2014, 112, 043902.	2.9	8
146	Controlling light in scattering media non-invasively using the photoacoustic transmission matrix. Nature Photonics, 2014, 8, 58-64.	15.6	215
147	Cancellation of Doppler intrinsic spectral broadening using ultrafast Doppler imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1396-1408.	1.7	10
148	Image transmission through a scattering medium: Inverse problem and sparsity-based imaging. , 2014, , .		0
149	Non-invasive single-shot imaging through scattering layers and around corners via speckle correlations. Nature Photonics, 2014, 8, 784-790.	15.6	805
150	Nearly perfect sound absorbers. Nature Materials, 2014, 13, 848-849.	13.3	10
151	Subwavelength far-field imaging at visible and ultraviolet wavelengths using broadband surface plasmon waves. Physical Review B, 2014, 89, .	1.1	9
152	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
153	Time-Reversal Generation of Rogue Waves. Physical Review Letters, 2014, 112, 124101.	2.9	87
154	High-contrast ultrafast imaging of the heart. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 288-301.	1.7	200
155	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
156	Increasing the modal density in plates for mono-element focusing in air. Journal of the Acoustical Society of America, 2013, 134, 1049-1054.	0.5	3
157	Technical design report for the <u>P</u> ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	1.0	71
158	Transverse localization of sound. Physical Review B, 2013, 88, .	1.1	1
159	Ultrasound elastography: Principles and techniques. Diagnostic and Interventional Imaging, 2013, 94, 487-495.	1.8	706
160	Influence of the pressure field distribution in transcranial ultrasonic neurostimulation. Medical Physics, 2013, 40, 082902.	1.6	162
161	In vivo achilles tendon elasticity assessment using supersonic shear imaging: A feasibility study. , 2013, , .		0
162	Wave propagation control at the deep subwavelength scale in $\hat{\text{A}}$ metamaterials. Nature Physics, 2013, 9, 55-60.	6.5	282

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163	Élastographie ultrasonore: principes et procédés. Diagnostic and Interventional Imaging, 2013, 94, 504-513.	0.0	2
164	Merging the best of two worlds. Nature Photonics, 2013, 7, 265-267.	15.6	7
165	Subwavelength focusing inside an open disordered medium by time reversal at a single point antenna. Physical Review A, 2013, 87, .	1.0	24
166	Ultra small mode volume defect cavities in spatially ordered and disordered metamaterials. Applied Physics Letters, 2013, 102, .	1.5	47
167	Subwavelength Focussing in Metamaterials Using Far Field Time Reversal. Springer Series in Materials Science, 2013, , 141-168.	0.4	1
168	Elastography: A new modality of ultrasound imaging. Diagnostic and Interventional Imaging, 2013, 94, 485.	1.8	9
169	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
170	Using subwavelength diffraction gratings to design open microwave cavities. , 2013, , .		0
171	EFSUMB Guidelines and Recommendations on the Clinical Use of Ultrasound Elastography.Part 2: Clinical Applications. Ultraschall in Der Medizin, 2013, 34, 238-253.	0.8	780
172	Analysis of the time reversal operator for a scatterer undergoing small displacements. Journal of the Acoustical Society of America, 2013, 133, 94-107.	0.5	14
173	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.	0.8	961
174	From supersonic shear wave imaging to full-field optical coherence shear wave elastography. Journal of Biomedical Optics, 2013, 18, 121514.	1.4	54
175	Sono-activated ultrasound localization microscopy. Applied Physics Letters, 2013, 103, .	1.5	144
176	Composite media mixing Bragg and local resonances for highly attenuating and broad bandgaps. Scientific Reports, 2013, 3, 3240.	1.6	69
177	Green's Function Retrieval and Passive Imaging from Correlations of Wideband Thermal Radiations. Physical Review Letters, 2013, 110, 203901.	2.9	29
178	Time reversal mirrors. , 2013, , .		1
179	Cross validation of Supersonic Shear Wave Imaging (SSI) with classical rheometry during blood coagulation over a very large bandwidth. , 2013, , .		0
180	In vivo out-of-plane Doppler imaging based on ultrafast plane wave imaging. , 2013, , .		0

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181	Assessment of the cervical stiffness in pregnant women using Shear Wave Elastography: A feasibility study. , 2013, , .		0
182	In vivo transthoracic ultrafast Doppler imaging of left intraventricular blood flow pattern. , 2013, , .		2
183	Towards backscatter tensor imaging (BTI): Analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues. , 2013, , .		3
184	Shear wave dispersion for fibrosis, steatosis and activity staging. , 2013, , .		0
185	Global approach for transient shear wave inversion based on the adjoint method: a comprehensive 2D simulation study. Physics in Medicine and Biology, 2013, 58, 6765-6778.	1.6	8
186	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
187	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
188	Transmission matrix approach to information transfer through complex Media. , 2013, , .		0
189	Monitoring the lesion formation during histotripsy treatment using shear wave imaging. , 2012, , .		0
190	Optimal spatiotemporal focusing through complex scattering media. Physical Review E, 2012, 85, 016605.	0.8	10
191	Ultrasound contrast plane wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2676-83.	1.7	149
192	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
193	Hybridization band gap based smart antennas: Deep subwavelength yet directional and strongly decoupled MIMO antennas. , 2012, , .		6
194	Ultrafast plane wave imaging: Doppler frequency distribution. , 2012, , .		1
195	MR-guided adaptive focusing of therapeutic ultrasound beams in the human head. Medical Physics, 2012, 39, 1141-1149.	1.6	98
196	Dispersion in media containing resonant inclusions: where does it come from?. , 2012, , .		2
197	Exploiting the Time-Reversal Operator for Adaptive Optics, Selective Focusing and Scattering Pattern Analysis. , 2012, , .		0
198	Acoustic imaging device with one transducer. Journal of the Acoustical Society of America, 2012, 131, EL395-EL399.	0.5	11

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199	Time-reversal method and cross-correlation techniques by normal mode theory: a three-point problem. <i>Geophysical Journal International</i> , 2012, 191, 637-652.	1.0	12
200	The variance of quantitative estimates in shear wave imaging: Theory and experiments. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 2390-410.	1.7	65
201	Aberration correction by time reversal of moving speckle noise. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1575-1583.	1.7	16
202	Shear Wave Imaging of the heart using a cardiac phased array with coherent spatial compound. , 2012, , .		8
203	Time Reversal of Water Waves. <i>Physical Review Letters</i> , 2012, 109, 064501.	2.9	45
204	Far field subwavelength imaging of magnetic patterns. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	20
205	Tunable time-reversal cavity for high-pressure ultrasonic pulses generation: A tradeoff between transmission and time compression. <i>Applied Physics Letters</i> , 2012, 101, 064104.	1.5	11
206	A polychromatic approach to far-field superlensing at visible wavelengths. <i>Nature Communications</i> , 2012, 3, 889.	5.8	102
207	Imaging changes in scattering media from Time Reversal of the Coda wave Difference (TRECOD). <i>Waves in Random and Complex Media</i> , 2012, 22, 109-120.	1.6	2
208	Controlling waves in space and time for imaging and focusing in complex media. <i>Nature Photonics</i> , 2012, 6, 283-292.	15.6	1,150
209	Application of 1-d transient elastography for the shear modulus assessment of thin-layered soft tissue: comparison with supersonic shear imaging technique. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 703-714.	1.7	19
210	Mapping Myocardial Fiber Orientation Using Echocardiography-Based Shear Wave Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 554-562.	5.4	144
211	<i>In vivo</i> bubble nucleation probability in sheep brain tissue. <i>Physics in Medicine and Biology</i> , 2011, 56, 7001-7015.	1.6	71
212	Optimal transcostal high-intensity focused ultrasound with combined real-time 3D movement tracking and correction. <i>Physics in Medicine and Biology</i> , 2011, 56, 7061-7080.	1.6	59
213	Functional ultrasound imaging of the brain. <i>Nature Methods</i> , 2011, 8, 662-664.	9.0	589
214	Ultrafast compound doppler imaging: providing full blood flow characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 134-147.	1.7	384
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