

Mathias Fink

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

574
papers

36,525
citations

99
h-index

179
g-index

719
ext. papers

43,837
ext. citations

4.6
avg, IF

7.52
L-index

#	Paper	IF	Citations
574	Optical phase modulation by natural eye movements: application to time-domain FF-OCT image retrieval.. <i>Biomedical Optics Express</i> , 2022 , 13, 902-920	3.5	
573	Physicists in a World of Wireless Communications: A Noisy Connection? [Industry Activities]. <i>IEEE Antennas and Propagation Magazine</i> , 2022 , 64, 89-94	1.7	
572	Manifestation of aberrations in full-field optical coherence tomography. <i>Optics Express</i> , 2021 , 29, 22044-22063	3.3	3
571	Fourier transform acousto-optic imaging with off-axis holographic detection. <i>Applied Optics</i> , 2021 , 60, 7107-7112	1.7	0
570	Passive imaging of water pipelines using ambient turbulence noise. <i>Mechanical Systems and Signal Processing</i> , 2021 , 160, 107882	7.8	2
569	Time Reversal Precoding at SubTHz Frequencies: Experimental Results on Spatiotemporal Focusing 2021 ,		1
568	Reflection Matrix Approach for Quantitative Imaging of Scattering Media. <i>Physical Review X</i> , 2020 , 10,	9.1	10
567	Functional ultrasound imaging of deep visual cortex in awake nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14453-14463	11.5	20
566	Distortion matrix approach for ultrasound imaging of random scattering media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14645-14656	11.5	12
565	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 798-807	6.7	221
564	Reversible Hardware for Acoustic Communications. <i>IEEE Communications Magazine</i> , 2020 , 58, 55-61	9.1	26
563	Real-time non-contact cellular imaging and angiography of human cornea and limbus with common-path full-field/SD OCT. <i>Nature Communications</i> , 2020 , 11, 1868	17.4	13
562	Coherence gate shaping for wide field high-resolution in vivo retinal imaging with full-field OCT. <i>Biomedical Optics Express</i> , 2020 , 11, 4928-4941	3.5	6
561	Curved-field optical coherence tomography: large-field imaging of human corneal cells and nerves. <i>Optica</i> , 2020 , 7, 872	8.6	8
560	Experimental reconstruction of extreme sea waves by time reversal principle. <i>Journal of Fluid Mechanics</i> , 2020 , 884,	3.7	5
559	How a moving passive observer can perceive its environment? The Unruh effect revisited. <i>Wave Motion</i> , 2020 , 93, 102462	1.8	1
558	Distortion matrix concept for deep optical imaging in scattering media. <i>Science Advances</i> , 2020 , 6, eaay7170	11.9	16

557	Dynamic full-field optical coherence tomography: 3D live-imaging of retinal organoids. <i>Light: Science and Applications</i> , 2020 , 9, 140	16.7	17
556	Smart radio environments empowered by reconfigurable AI meta-surfaces: an idea whose time has come. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2019 , 2019,	3.2	580
555	Time-Reversal by Time-Dependent Perturbations. <i>SIAM Journal on Applied Mathematics</i> , 2019 , 79, 754-780		5
554	Drastic slowdown of the Rayleigh-like wave in unjammed granular suspensions. <i>Physical Review E</i> , 2019 , 99, 042902	2.4	2
553	Phase-conjugate mirror for water waves driven by the Faraday instability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8809-8814	11.5	12
552	Left-handed band in an electromagnetic metamaterial induced by sub-wavelength multiple scattering. <i>Applied Physics Letters</i> , 2019 , 114, 111101	3.4	11
551	Precision resonance energy scans with the PANDA experiment at FAIR. <i>European Physical Journal A</i> , 2019 , 55, 1	2.5	21
550	Active Control of the Spoof Plasmon Propagation in Time Varying and Non-reciprocal Metamaterial. <i>Scientific Reports</i> , 2019 , 9, 2368	4.9	2
549	Probing dynamic processes in the eye at multiple spatial and temporal scales with multimodal full field OCT. <i>Biomedical Optics Express</i> , 2019 , 10, 731-746	3.5	16
548	Choroidal vasculature imaging with laser Doppler holography. <i>Biomedical Optics Express</i> , 2019 , 10, 995-1012	3.5	11
547	Waveform analysis of human retinal and choroidal blood flow with laser Doppler holography. <i>Biomedical Optics Express</i> , 2019 , 10, 4942-4963	3.5	9
546	Controlling light in complex media beyond the acoustic diffraction-limit using the acousto-optic transmission matrix. <i>Nature Communications</i> , 2019 , 10, 717	17.4	17
545	Observation of the Talbot effect with water waves. <i>American Journal of Physics</i> , 2019 , 87, 38-43	0.7	5
544	Optimally diverse communication channels in disordered environments with tuned randomness. <i>Nature Electronics</i> , 2019 , 2, 36-41	28.4	50
543	Technical design report for the $\overline{\{P\}}\mathrm{ANDA}$ Barrel DIRC detector. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019 , 46, 045001	2.9	17
542	Layer potential approach for fast eigenvalue characterization of the Helmholtz equation with mixed boundary conditions. <i>Computational and Applied Mathematics</i> , 2018 , 37, 4675-4685		2
541	Dynamic Metasurface Aperture as Smart Around-the-Corner Motion Detector. <i>Scientific Reports</i> , 2018 , 8, 6536	4.9	20
540	Towards anti-causal Green's function for three-dimensional sub-diffraction focusing. <i>Nature Physics</i> , 2018 , 14, 608-612	16.2	30

539	Effect of microstructural elongation on backscattered field: Intensity measurement and multiple scattering estimation with a linear transducer array. <i>Ultrasonics</i> , 2018 , 82, 379-389	3.5	4
538	high resolution human corneal imaging using full-field optical coherence tomography. <i>Biomedical Optics Express</i> , 2018 , 9, 557-568	3.5	56
537	In vivo high-resolution human retinal imaging with wavefront-correctionless full-field OCT. <i>Optica</i> , 2018 , 5, 409	8.6	26
536	Precise Localization of Multiple Noncooperative Objects in a Disordered Cavity by Wave Front Shaping. <i>Physical Review Letters</i> , 2018 , 121, 063901	7.4	37
535	Classical analog of the Unruh effect. <i>Physical Review A</i> , 2018 , 98,	2.6	13
534	Airborne ultrasound surface motion camera: Application to seismocardiography. <i>Applied Physics Letters</i> , 2018 , 112, 213702	3.4	7
533	Shaping reverberating sound fields with an actively tunable metasurface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6638-6643	11.5	69
532	Towards a quantum time mirror for non-relativistic wave packets. <i>New Journal of Physics</i> , 2018 , 20, 033013	3	3
531	Non-Contact Surface Wave Elastography Using 40 kHz Airborne Ultrasound Surface Motion Camera 2018 ,		1
530	Measuring Dirac Cones in a Subwavelength Metamaterial. <i>Physical Review Letters</i> , 2018 , 121, 267601	7.4	4
529	laser Doppler holography of the human retina. <i>Biomedical Optics Express</i> , 2018 , 9, 4113-4129	3.5	14
528	3D functional ultrasound imaging of the cerebral visual system in rodents. <i>NeuroImage</i> , 2017 , 149, 267-274	4	42
527	Time reversal of ultrasound in granular media. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 1487-1497	4	4
526	Non-contact and through-clothing measurement of the heart rate using ultrasound vibrocardiography. <i>Medical Engineering and Physics</i> , 2017 , 50, 96-102	2.4	14
525	Full-Field Optical Coherence Tomography as a Diagnosis Tool: Recent Progress with Multimodal Imaging. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 236	2.6	13
524	Cell Motility as Contrast Agent in Retinal Explant Imaging With Full-Field Optical Coherence Tomography 2017 , 58, 4605-4615		16
523	Manipulating light at subwavelength scale by exploiting defect-guided spoof plasmon modes. <i>Physical Review B</i> , 2017 , 96,	3.3	3
522	Relation of short-range and long-range lithium ion dynamics in glass-ceramics: Insights from Li7 NMR field-cycling and field-gradient studies. <i>Physical Review B</i> , 2017 , 96,	3.3	19

521	Experimental study of multiple scattering in anisotropic titanium alloys 2017 ,		1
520	Crystalline metamaterials for topological properties at subwavelength scales. <i>Nature Communications</i> , 2017 , 8, 16023	17.4	135
519	Topological acoustic polaritons: robust sound manipulation at the subwavelength scale. <i>New Journal of Physics</i> , 2017 , 19, 075003	2.9	103
518	Feasibility study for the measurement of π transition distribution amplitudes at PANDA in p-p-I/O. <i>Physical Review D</i> , 2017 , 95,	4.9	12
517	Dirac quantum time mirror. <i>Physical Review B</i> , 2017 , 95,	3.3	7
516	Soda Cans Metamaterial: Homogenization and Beyond. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 205-250	0.1	
515	Dynamic multimodal full-field optical coherence tomography and fluorescence structured illumination microscopy. <i>Journal of Biomedical Optics</i> , 2017 , 22, 26004	3.5	20
514	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. <i>Scientific Reports</i> , 2017 , 7, 830	4.9	25
513	From the time-reversal mirror to the instantaneous time mirror. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 1477-1486	2.3	3
512	A resolution insensitive to geometrical aberrations by using incoherent illumination and interference imaging. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 1603-1621	2.3	3
511	Shaping Microwave Fields Using Nonlinear Unsolicited Feedback: Application to Enhance Energy Harvesting. <i>Physical Review Applied</i> , 2017 , 8,	4.3	12
510	Slow waves in locally resonant metamaterials line defect waveguides. <i>Scientific Reports</i> , 2017 , 7, 15105	4.9	35
509	Crystalline Soda Can Metamaterial exhibiting Graphene-like Dispersion at subwavelength scale. <i>Scientific Reports</i> , 2017 , 7, 15359	4.9	10
508	Multiple scattering limit in optical microscopy. <i>Optics Express</i> , 2017 , 25, 28914	3.3	25
507	Subwavelength focusing and imaging from the far field using time reversal in subwavelength scaled resonant media 2017 ,		1
506	Ambient noise correlation-based imaging with moving sensors. <i>Inverse Problems and Imaging</i> , 2017 , 11, 477-500	2.1	1
505	Smart optical coherence tomography for ultra-deep imaging through highly scattering media 2017 ,		1
504	Beating the Diffraction Limit with Positive Refraction: The Resonant Metalens Approach 2017 , 33-90		

503	Full-field spatially incoherent illumination interferometry: a spatial resolution almost insensitive to aberrations. <i>Optics Letters</i> , 2016 , 41, 3920-3	3	26
502	Exploiting spatiotemporal degrees of freedom for far-field subwavelength focusing using time reversal in fractals. <i>Physical Review B</i> , 2016 , 93,	3.3	4
501	High speed optical holography of retinal blood flow. <i>Optics Letters</i> , 2016 , 41, 3503-6	3	8
500	Smart optical coherence tomography for ultra-deep imaging through highly scattering media. <i>Science Advances</i> , 2016 , 2, e1600370	14.3	84
499	Feasibility studies of time-like proton electromagnetic form factors at (overline{rm P})ANDA at FAIR. <i>European Physical Journal A</i> , 2016 , 52, 1	2.5	22
498	An optical tomography PSF almost insensitive to aberrations: the benefit of a spatial incoherent illumination (Conference Presentation) 2016 ,		2
497	Time-reversal of nonlinear waves: Applicability and limitations. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	6
496	Soda Cans Metamaterial: A Subwavelength-Scaled Phononic Crystal. <i>Crystals</i> , 2016 , 6, 82	2.3	28
495	3D airborne ultrasound vibrometer for the detection of skin surface heterogeneities 2016 ,		1
494	Spatio-temporal imaging of light transport in highly scattering media under white light illumination. <i>Optica</i> , 2016 , 3, 1160	8.6	7
493	Time reversal and holography with spacetime transformations. <i>Nature Physics</i> , 2016 , 12, 972-977	16.2	85
492	Chapter 12 Time Reversal of Linear and Nonlinear Water Waves 2016 , 401-436		
491	Diffuse shear wave imaging: toward passive elastography using low-frame rate spectral-domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016 , 21, 126013	3.5	23
490	From Loschmidt daemons to time-reversed waves. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	8
489	Adaptive optics full-field optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016 , 21, 121505	3.5	9
488	Spatiotemporal Wave Front Shaping in a Microwave Cavity. <i>Physical Review Letters</i> , 2016 , 117, 134302	7.4	27
487	Experimental access to Transition Distribution Amplitudes with the P ANDA experiment at FAIR. <i>European Physical Journal A</i> , 2015 , 51, 1	2.5	21
486	Wave-Field Shaping in Cavities: Waves Trapped in a Box with Controllable Boundaries. <i>Physical Review Letters</i> , 2015 , 115, 017701	7.4	47

485	Negative refractive index and acoustic superlens from multiple scattering in single negative metamaterials. <i>Nature</i> , 2015 , 525, 77-81	50.4	350
484	Subwavelength focusing in bubbly media using broadband time reversal. <i>Physical Review B</i> , 2015 , 91,	3.3	34
483	Acoustic imaging with time reversal methods: From medicine to NDT 2015 ,		2
482	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, 1890-6; discussion 1896	1.9	33
481	Super-resolution in time-reversal focusing on a moving source. <i>Wave Motion</i> , 2015 , 53, 80-93	1.8	16
480	Scanning-free imaging through a single fiber by random spatio-spectral encoding. <i>Optics Letters</i> , 2015 , 40, 534-7	3	23
479	Retrieving time-dependent Green's functions in optics with low-coherence interferometry. <i>Physical Review Letters</i> , 2015 , 114, 023901	7.4	10
478	Retrieving time-dependent Green's functions in optics with low-coherence interferometry 2015 ,		1
477	Ultrafast imaging in biomedical ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 102-19	3.2	325
476	Use of shear wave elastography for monitoring enzymatic milk coagulation. <i>Journal of Food Engineering</i> , 2014 , 136, 73-79	6	5
475	Using subwavelength diffraction gratings to design open electromagnetic cavities. <i>Physical Review Letters</i> , 2014 , 112, 043902	7.4	8
474	Controlling light in scattering media non-invasively using the photoacoustic transmission matrix. <i>Nature Photonics</i> , 2014 , 8, 58-64	33.9	159
473	Cancellation of Doppler intrinsic spectral broadening using ultrafast Doppler imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1396-1408	3.2	8
472	Non-invasive single-shot imaging through scattering layers and around corners via speckle correlations. <i>Nature Photonics</i> , 2014 , 8, 784-790	33.9	494
471	Acoustic metamaterials: Nearly perfect sound absorbers. <i>Nature Materials</i> , 2014 , 13, 848-9	27	8
470	Subwavelength far-field imaging at visible and ultraviolet wavelengths using broadband surface plasmon waves. <i>Physical Review B</i> , 2014 , 89,	3.3	9
469	Ultrasound backscatter tensor imaging (BTI): analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 986-96	3.2	23
468	Time-reversal generation of rogue waves. <i>Physical Review Letters</i> , 2014 , 112, 124101	7.4	71

467	High-contrast ultrafast imaging of the heart. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 288-301	3.2	137
466	Shaping complex microwave fields in reverberating media with binary tunable metasurfaces. <i>Scientific Reports</i> , 2014 , 4, 6693	4.9	105
465	3D ultrafast ultrasound imaging in vivo. <i>Physics in Medicine and Biology</i> , 2014 , 59, L1-L13	3.8	181
464	Ultrafast Imaging in Biomedical Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 102-119	3.2	296
463	Ultrafast Doppler reveals the mapping of cerebral vascular resistivity in neonates. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1009-17	7.3	48
462	Hybridized resonances to design tunable binary phase metasurface unit cells. <i>Optics Express</i> , 2014 , 22, 18881-8	3.3	39
461	In vivo evidence of porcine cornea anisotropy using supersonic shear wave imaging 2014 , 55, 7545-52		41
460	Ultrafast acoustoelectric imaging 2014 ,		3
459	Non-invasive ultrasonic surgery of the brain in non-human primates. <i>Journal of the Acoustical Society of America</i> , 2013 , 134, 1632-9	2.2	24
458	Increasing the modal density in plates for mono-element focusing in air. <i>Journal of the Acoustical Society of America</i> , 2013 , 134, 1049-54	2.2	3
457	Technical design report for the (overline{P})ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. <i>European Physical Journal A</i> , 2013 , 49, 1	2.5	60
456	Transverse localization of sound. <i>Physical Review B</i> , 2013 , 88,	3.3	1
455	Ultrasound elastography: principles and techniques. <i>Diagnostic and Interventional Imaging</i> , 2013 , 94, 487-95	5.4	491
454	Influence of the pressure field distribution in transcranial ultrasonic neurostimulation. <i>Medical Physics</i> , 2013 , 40, 082902	4.4	123
453	Wave propagation control at the deep subwavelength scale in metamaterials. <i>Nature Physics</i> , 2013 , 9, 55-60	16.2	219
452	Élastographie ultrasonore : principes et procédés. <i>Diagnostic and Interventional Imaging</i> , 2013 , 94, 504-513		1
451	Subwavelength focusing inside an open disordered medium by time reversal at a single point antenna. <i>Physical Review A</i> , 2013 , 87,	2.6	21
450	Ultra small mode volume defect cavities in spatially ordered and disordered metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 144104	3.4	35

449	From Multiwave Imaging to Elasticity Imaging 2013 , 1-21		
448	Subwavelength Focussing in Metamaterials Using Far Field Time Reversal. <i>Springer Series in Materials Science</i> , 2013 , 141-168	0.9	1
447	Functional ultrasound imaging of the brain: theory and basic principles. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 492-506	3.2	146
446	EFSUMB guidelines and recommendations on the clinical use of ultrasound elastography. Part 2: Clinical applications. <i>Ultraschall in Der Medizin</i> , 2013 , 34, 238-53	3.8	608
445	Analysis of the time reversal operator for a scatterer undergoing small displacements. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 94-107	2.2	8
444	EFSUMB guidelines and recommendations on the clinical use of ultrasound elastography. Part 1: Basic principles and technology. <i>Ultraschall in Der Medizin</i> , 2013 , 34, 169-84	3.8	709
443	From supersonic shear wave imaging to full-field optical coherence shear wave elastography. <i>Journal of Biomedical Optics</i> , 2013 , 18, 121514	3.5	42
442	Sono-activated ultrasound localization microscopy. <i>Applied Physics Letters</i> , 2013 , 103, 174107	3.4	93
441	Composite media mixing Bragg and local resonances for highly attenuating and broad bandgaps. <i>Scientific Reports</i> , 2013 , 3, 3240	4.9	48
440	Green's function retrieval and passive imaging from correlations of wideband thermal radiations. <i>Physical Review Letters</i> , 2013 , 110, 203901	7.4	24
439	In vivo transthoracic ultrafast Doppler imaging of left intraventricular blood flow pattern 2013 ,		1
438	Towards backscatter tensor imaging (BTI): Analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues 2013 ,		3
437	Global approach for transient shear wave inversion based on the adjoint method: a comprehensive 2D simulation study. <i>Physics in Medicine and Biology</i> , 2013 , 58, 6765-78	3.8	6
436	Transcranial high intensity focused ultrasound therapy guided by 7 TESLA MRI in a rat brain tumour model: a feasibility study. <i>International Journal of Hyperthermia</i> , 2013 , 29, 598-608	3.7	14
435	Targeting accuracy of transcranial magnetic resonance-guided high-intensity focused ultrasound brain therapy: a fresh cadaver model. <i>Journal of Neurosurgery</i> , 2013 , 118, 1046-52	3.2	55
434	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, 703-14	3.2	16
433	Mapping myocardial fiber orientation using echocardiography-based shear wave imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 554-62	11.7	100
432	Acoustic imaging device with one transducer. <i>Journal of the Acoustical Society of America</i> , 2012 , 131, EL395-9	2.2	10

431	Time-reversal method and cross-correlation techniques by normal mode theory: a three-point problem. <i>Geophysical Journal International</i> , 2012 , 191, 637-652	2.6	9
430	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	3.2	52
429	Aberration correction by time reversal of moving speckle noise. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1575-83	3.2	9
428	Shear Wave Imaging of the heart using a cardiac phased array with coherent spatial compound 2012 ,		7
427	Time reversal of water waves. <i>Physical Review Letters</i> , 2012 , 109, 064501	7.4	39
426	Far field subwavelength imaging of magnetic patterns. <i>Applied Physics Letters</i> , 2012 , 101, 111102	3.4	14
425	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	3.4	11
424	A polychromatic approach to far-field superlensing at visible wavelengths. <i>Nature Communications</i> , 2012 , 3, 889	17.4	82
423	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	1.9	1
422	Controlling waves in space and time for imaging and focusing in complex media. <i>Nature Photonics</i> , 2012 , 6, 283-292	33.9	793
421	Numerical prediction of frequency dependent 3D maps of mechanical index thresholds in ultrasonic brain therapy. <i>Medical Physics</i> , 2012 , 39, 455-67	4.4	26
420	Optimal spatiotemporal focusing through complex scattering media. <i>Physical Review E</i> , 2012 , 85, 016605	5.4	9
419	Ultrasound contrast plane wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 2676-83	3.2	97
418	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, 5948-54		48
417	Hybridization band gap based smart antennas: Deep subwavelength yet directional and strongly decoupled MIMO antennas 2012 ,		4
416	Ultrafast plane wave imaging: Doppler frequency distribution 2012 ,		1
415	MR-guided adaptive focusing of therapeutic ultrasound beams in the human head. <i>Medical Physics</i> , 2012 , 39, 1141-9	4.4	80
414	Optimal transcostal high-intensity focused ultrasound with combined real-time 3D movement tracking and correction. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7061-80	3.8	48

413	Functional ultrasound imaging of the brain. <i>Nature Methods</i> , 2011 , 8, 662-4	21.6	336
412	Ultrafast compound Doppler imaging: providing full blood flow characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 134-47	3.2	267
411	Combined passive detection and ultrafast active imaging of cavitation events induced by short pulses of high-intensity ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 517-32	3.2	83
410	Acoustic resonators for far-field control of sound on a subwavelength scale. <i>Physical Review Letters</i> , 2011 , 107, 064301	7.4	164
409	Revisiting the wire medium: an ideal resonant metalens. <i>Waves in Random and Complex Media</i> , 2011 , 21, 591-613	1.9	46
408	In Vivo Quantitative Mapping of Myocardial Stiffening and Transmural Anisotropy During the Cardiac Cycle. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 295-305	11.7	165
407	In vivo mapping of brain elasticity in small animals using shear wave imaging. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 550-8	11.7	46
406	Far-field sub-wavelength imaging and focusing using a wire medium based resonant metalens. <i>Waves in Random and Complex Media</i> , 2011 , 21, 614-627	1.9	41
405	In vivo bubble nucleation probability in sheep brain tissue. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7001-85	3.85	62
404	Ultrafast imaging of the arterial pulse wave. <i>Irbm</i> , 2011 , 32, 106-108	4.8	37
403	Noninvasive in vivo liver fibrosis evaluation using supersonic shear imaging: a clinical study on 113 hepatitis C virus patients. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1361-73	3.5	318
402	Exploiting the time-reversal operator for adaptive optics, selective focusing, and scattering pattern analysis. <i>Physical Review Letters</i> , 2011 , 107, 263901	7.4	57
401	Microbubble ultrasound super-localization imaging (MUSLI) 2011 ,		45
400	Time reversal of speckle noise. <i>Physical Review Letters</i> , 2011 , 106, 054301	7.4	25
399	Controlling light through optical disordered media: transmission matrix approach. <i>New Journal of Physics</i> , 2011 , 13, 123021	2.9	140
398	Time Reversal in Subwavelength-Scaled Resonant Media: Beating the Diffraction Limit. <i>International Journal of Microwave Science and Technology</i> , 2011 , 2011, 1-14		6
397	Effects of nonlinear ultrasound propagation on high intensity brain therapy. <i>Medical Physics</i> , 2011 , 38, 1207-16	4.4	52
396	A Multiwave Imaging Approach for Elastography. <i>Current Medical Imaging</i> , 2011 , 7, 340-349	1.2	6

395	Quantitative assessment of arterial wall biomechanical properties using shear wave imaging. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1662-76	3.5	216
394	DETECTION AND IMAGING OF HUMAN BEINGS BEHIND A WALL USING THE DORT METHOD. <i>Progress in Electromagnetics Research</i> , 2010 , 110, 353-369	3.8	13
393	2010 ,		1
392	MR-guided adaptive focusing of ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1734-7	3.2	40
391	Thickness or phase velocity measurements using the Green's function comparison method. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1804-12	3.2	4
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