

Mickael Tanter

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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.

450 papers	23,807 citations	79 h-index	144 g-index
546 ext. papers	30,026 ext. citations	5.5 avg, IF	7.11 L-index

#	Paper	IF	Citations
450	Supersonic shear imaging: a new technique for soft tissue elasticity mapping. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 396-409	3.2	1610
449	Coherent plane-wave compounding for very high frame rate ultrasonography and transient elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 489-506	3.2	873
448	Quantitative assessment of breast lesion viscoelasticity: initial clinical results using supersonic shear imaging. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 1373-86	3.5	535
447	Ultrasound elastography: principles and techniques. <i>Diagnostic and Interventional Imaging</i> , 2013 , 94, 487-95	5.4	491
446	Ultrafast ultrasound localization microscopy for deep super-resolution vascular imaging. <i>Nature</i> , 2015 , 527, 499-502	50.4	482
445	Time-reversed acoustics. <i>Reports on Progress in Physics</i> , 2000 , 63, 1933-1995	14.4	461
444	Viscoelastic and anisotropic mechanical properties of in vivo muscle tissue assessed by supersonic shear imaging. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 789-801	3.5	453
443	Breast lesions: quantitative elastography with supersonic shear imaging--preliminary results. <i>Radiology</i> , 2010 , 256, 297-303	20.5	404
442	Viscoelastic shear properties of in vivo breast lesions measured by MR elastography. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 159-65	3.3	363
441	Spatiotemporal Clutter Filtering of Ultrafast Ultrasound Data Highly Increases Doppler and FUltrasound Sensitivity. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2271-85	11.7	357
440	Functional ultrasound imaging of the brain. <i>Nature Methods</i> , 2011 , 8, 662-4	21.6	336
439	Experimental demonstration of noninvasive transskull adaptive focusing based on prior computed tomography scans. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 84-93	2.2	333
438	Ultrafast imaging in biomedical ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 102-19	3.2	325
437	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
436	Quantitative viscoelasticity mapping of human liver using supersonic shear imaging: preliminary in vivo feasibility study. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 219-29	3.5	304
435	Shear elasticity probe for soft tissues with 1-D transient elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 436-46	3.2	299
434	Ultrafast Imaging in Biomedical Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 102-119	3.2	296

433	Shear modulus imaging with 2-D transient elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 426-35	3.2	285
432	Shear wave spectroscopy for in vivo quantification of human soft tissues visco-elasticity. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 313-22	11.7	283
431	Imaging anisotropic and viscous properties of breast tissue by magnetic resonance-elastography. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 372-87	4.4	281
430	Ultrafast compound imaging for 2-D motion vector estimation: application to transient elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1363-74	3.2	272
429	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
428	Recovering the Green's function from field-field correlations in an open scattering medium. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 2973-6	2.2	266
427	MR elastography of breast lesions: understanding the solid/liquid duality can improve the specificity of contrast-enhanced MR mammography. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 1135-44	4.4	244
426	In vivo breast tumor detection using transient elastography. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 1387-96	3.5	238
425	Low-intensity focused ultrasound modulates monkey visuomotor behavior. <i>Current Biology</i> , 2013 , 23, 2430-3	6.3	232
424	Time reversal and the inverse filter. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 223-34	2.2	221
423	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
422	Mechanical induction of the tumorigenic Eatenin pathway by tumour growth pressure. <i>Nature</i> , 2015 , 523, 92-5	50.4	201
421	3D ultrafast ultrasound imaging in vivo. <i>Physics in Medicine and Biology</i> , 2014 , 59, L1-L13	3.8	181
420	Focusing and steering through absorbing and aberrating layers: application to ultrasonic propagation through the skull. <i>Journal of the Acoustical Society of America</i> , 1998 , 103, 2403-10	2.2	176
419	Elastography for Muscle Biomechanics: Toward the Estimation of Individual Muscle Force. <i>Exercise and Sport Sciences Reviews</i> , 2015 , 43, 125-33	6.7	167
418	The role of viscosity in the impulse diffraction field of elastic waves induced by the acoustic radiation force. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 1523-36	3.2	166
417	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
416	High-resolution quantitative imaging of cornea elasticity using supersonic shear imaging. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1881-93	11.7	165

415	Attenuation, scattering, and absorption of ultrasound in the skull bone. <i>Medical Physics</i> , 2012 , 39, 299-307	7.4	165
414	Correlation of random wavefields: An interdisciplinary review. <i>Geophysics</i> , 2006 , 71, SI11-SI21	3.1	165
413	Time-resolved pulsed elastography with ultrafast ultrasonic imaging. <i>Ultrasonic Imaging</i> , 1999 , 21, 259-72	9	164
412	Supersonic shear wave elastography of in vivo pig kidney: influence of blood pressure, urinary pressure and tissue anisotropy. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1559-67	3.5	162
411	Real-time visualization of muscle stiffness distribution with ultrasound shear wave imaging during muscle contraction. <i>Muscle and Nerve</i> , 2010 , 42, 438-41	3.4	156
410	High power transcranial beam steering for ultrasonic brain therapy. <i>Physics in Medicine and Biology</i> , 2003 , 48, 2577-89	3.8	153
409	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
408	Taking advantage of multiple scattering to communicate with time-reversal antennas. <i>Physical Review Letters</i> , 2003 , 90, 014301	7.4	146
407	Optimal focusing by spatio-temporal inverse filter. I. Basic principles. <i>Journal of the Acoustical Society of America</i> , 2001 , 110, 37-47	2.2	146
406	Time-reversal acoustics in biomedical engineering. <i>Annual Review of Biomedical Engineering</i> , 2003 , 5, 465-97	12	145
405	High-contrast ultrafast imaging of the heart. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 288-301	3.2	137
404	Investigating liver stiffness and viscosity for fibrosis, steatosis and activity staging using shear wave elastography. <i>Journal of Hepatology</i> , 2015 , 62, 317-24	13.4	134
403	Non-invasive transcranial ultrasound therapy based on a 3D CT scan: protocol validation and in vitro results. <i>Physics in Medicine and Biology</i> , 2009 , 54, 2597-613	3.8	134
402	Dynamic study of blood-brain barrier closure after its disruption using ultrasound: a quantitative analysis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1948-58	7.3	126
401	On the effects of reflected waves in transient shear wave elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2032-5	3.2	125
400	Influence of the pressure field distribution in transcranial ultrasonic neurostimulation. <i>Medical Physics</i> , 2013 , 40, 082902	4.4	123
399	In vivo evaluation of the elastic anisotropy of the human Achilles tendon using shear wave dispersion analysis. <i>Physics in Medicine and Biology</i> , 2014 , 59, 505-23	3.8	122
398	Acoustoelasticity in soft solids: assessment of the nonlinear shear modulus with the acoustic radiation force. <i>Journal of the Acoustical Society of America</i> , 2007 , 122, 3211-9	2.2	122

397	Electrical Impedance Tomography by Elastic Deformation. <i>SIAM Journal on Applied Mathematics</i> , 2008 , 68, 1557-1573	1.8	115
396	Viscoelasticity in Achilles tendonopathy: quantitative assessment by using real-time shear-wave elastography. <i>Radiology</i> , 2015 , 274, 821-9	20.5	107
395	Mapping myocardial fiber orientation using echocardiography-based shear wave imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 554-62	11.7	100
394	Assessment of elastic parameters of human skin using dynamic elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 980-9	3.2	99
393	In vivo transcranial brain surgery with an ultrasonic time reversal mirror. <i>Journal of Neurosurgery</i> , 2007 , 106, 1061-6	3.2	98
392	3-D real-time motion correction in high-intensity focused ultrasound therapy. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 1239-49	3.5	98
391	The EFSUMB Guidelines and Recommendations for the Clinical Practice of Elastography in Non-Hepatic Applications: Update 2018. <i>Ultraschall in Der Medizin</i> , 2019 , 40, 425-453	3.8	97
390	On the elasticity of transverse isotropic soft tissues (L). <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 2757-60	2.2	97
389	Simulation of intracranial acoustic fields in clinical trials of sonothrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1148-58	3.5	97
388	Ultrasound contrast plane wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 2676-83	3.2	97
387	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. <i>Physics in Medicine and Biology</i> , 2010 , 55, 1701-18	3.8	95
386	Monitoring thermally-induced lesions with supersonic shear imaging. <i>Ultrasonic Imaging</i> , 2004 , 26, 71-84	1.9	95
385	Functional ultrasound imaging of intrinsic connectivity in the living rat brain with high spatiotemporal resolution. <i>Nature Communications</i> , 2014 , 5, 5023	17.4	94
384	Sono-activated ultrasound localization microscopy. <i>Applied Physics Letters</i> , 2013 , 103, 174107	3.4	93
383	Adaptive Spatiotemporal SVD Clutter Filtering for Ultrafast Doppler Imaging Using Similarity of Spatial Singular Vectors. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1574-1586	11.7	92
382	Real-time assessment of myocardial contractility using shear wave imaging. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 65-72	15.1	92
381	Quantitative elastography of renal transplants using supersonic shear imaging: a pilot study. <i>European Radiology</i> , 2012 , 22, 2138-46	8	90
380	Light controls cerebral blood flow in naive animals. <i>Nature Communications</i> , 2017 , 8, 14191	17.4	88

379	Transcostal high-intensity-focused ultrasound: ex vivo adaptive focusing feasibility study. <i>Physics in Medicine and Biology</i> , 2008 , 53, 2937-51	3.8	85
378	Ultrasound Localization Microscopy and Super-Resolution: A State of the Art. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1304-1320	3.2	85
377	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. <i>Radiology</i> , 2016 , 278, 554-62	20.5	83
376	Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 865-891	3.5	83
375	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
374	EEG and functional ultrasound imaging in mobile rats. <i>Nature Methods</i> , 2015 , 12, 831-4	21.6	80
373	MR-guided adaptive focusing of therapeutic ultrasound beams in the human head. <i>Medical Physics</i> , 2012 , 39, 1141-9	4.4	80
372	Observation of shock transverse waves in elastic media. <i>Physical Review Letters</i> , 2003 , 91, 164301	7.4	79
371	Functional ultrasound imaging of brain activity in human newborns. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	78
370	Initial experience with a new ultrasound imaging technique to measure tissue viscoelasticity. <i>Breast Cancer Research</i> , 2008 , 10,	8.3	78
369	Optimal focusing by spatio-temporal inverse filter. II. Experiments. Application to focusing through absorbing and reverberating media. <i>Journal of the Acoustical Society of America</i> , 2001 , 110, 48-58	2.2	78
368	Compensating for bone interfaces and respiratory motion in high-intensity focused ultrasound. <i>International Journal of Hyperthermia</i> , 2007 , 23, 141-51	3.7	77
367	Functional ultrasound neuroimaging: a review of the preclinical and clinical state of the art. <i>Current Opinion in Neurobiology</i> , 2018 , 50, 128-135	7.6	76
366	Transcranial ultrasonic stimulation modulates single-neuron discharge in macaques performing an antisaccade task. <i>Brain Stimulation</i> , 2017 , 10, 1024-1031	5.1	76
365	In Vivo Measurement of Brain Tumor Elasticity Using Intraoperative Shear Wave Elastography. <i>Ultraschall in Der Medizin</i> , 2016 , 37, 584-590	3.8	74
364	4D microvascular imaging based on ultrafast Doppler tomography. <i>NeuroImage</i> , 2016 , 127, 472-483	7.9	70
363	Ultrafast imaging of ultrasound contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1908-16	3.5	70
362	3-D ultrafast Doppler imaging applied to the noninvasive mapping of blood vessels in vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 1467-72	3.2	69

361	Sonic boom in soft materials: The elastic Cerenkov effect. <i>Applied Physics Letters</i> , 2004 , 84, 2202-2204	3.4	69
360	Sound focusing in rooms: the time-reversal approach. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 1533-43	2.2	67
359	Reliable protocol for shear wave elastography of lower limb muscles at rest and during passive stretching. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2284-91	3.5	66
358	Functional ultrasound imaging reveals different odor-evoked patterns of vascular activity in the main olfactory bulb and the anterior piriform cortex. <i>NeuroImage</i> , 2014 , 95, 176-84	7.9	65
357	Transcranial functional ultrasound imaging of the brain using microbubble-enhanced ultrasensitive Doppler. <i>NeuroImage</i> , 2016 , 124, 752-761	7.9	64
356	Multiwave imaging and super resolution. <i>Physics Today</i> , 2010 , 63, 28-33	0.9	64
355	4D functional ultrasound imaging of whole-brain activity in rodents. <i>Nature Methods</i> , 2019 , 16, 994-997	21.6	63
354	MR-guided transcranial brain HIFU in small animal models. <i>Physics in Medicine and Biology</i> , 2010 , 55, 365-88	3.8	62
353	In vivo bubble nucleation probability in sheep brain tissue. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7001-15	3.85	62
352	Robust sound speed estimation for ultrasound-based hepatic steatosis assessment. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3582-3598	3.8	61
351	Facial nerve palsy: evaluation by contrast-enhanced MR imaging. <i>Clinical Radiology</i> , 2001 , 56, 926-32	2.9	61
350	Assessment of the mechanical properties of the musculoskeletal system using 2-D and 3-D very high frame rate ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008 , 55, 2177-90	3.2	59
349	Resolution limits of ultrafast ultrasound localization microscopy. <i>Physics in Medicine and Biology</i> , 2015 , 60, 8723-40	3.8	57
348	Assessment of the Cervix in Pregnant Women Using Shear Wave Elastography: A Feasibility Study. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2789-97	3.5	57
347	4D ultrafast ultrasound flow imaging: in vivo quantification of arterial volumetric flow rate in a single heartbeat. <i>Physics in Medicine and Biology</i> , 2016 , 61, L48-L61	3.8	56
346	Shear wave elastography of tumour growth in a human breast cancer model with pathological correlation. <i>European Radiology</i> , 2013 , 23, 2079-86	8	55
345	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
344	4-D ultrafast shear-wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 1059-65	3.2	54

343	Ultrasound elastic tensor imaging: comparison with MR diffusion tensor imaging in the myocardium. <i>Physics in Medicine and Biology</i> , 2012 , 57, 5075-95	3.8	54
342	Real time inverse filter focusing through iterative time reversal. <i>Journal of the Acoustical Society of America</i> , 2004 , 115, 768-75	2.2	54
341	Ultrafast Doppler imaging of blood flow dynamics in the myocardium. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1661-8	11.7	53
340	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
339	Effects of nonlinear ultrasound propagation on high intensity brain therapy. <i>Medical Physics</i> , 2011 , 38, 1207-16	4.4	52
338	Monitoring of thermal therapy based on shear modulus changes: II. Shear wave imaging of thermal lesions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1603-11	3.2	51
337	Assessment of viscous and elastic properties of sub-wavelength layered soft tissues using shear wave spectroscopy: theoretical framework and in vitro experimental validation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 2305-15	3.2	50
336	Transcranial ultrasonic therapy based on time reversal of acoustically induced cavitation bubble signature. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 134-44	5	50
335	Myocardial Stiffness Evaluation Using Noninvasive Shear Wave Imaging in Healthy and Hypertrophic Cardiomyopathic Adults. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1135-1145	8.4	50
334	Functional ultrasound imaging of the brain reveals propagation of task-related brain activity in behaving primates. <i>Nature Communications</i> , 2019 , 10, 1400	17.4	49
333	Microvascular flow dictates the compromise between spatial resolution and acquisition time in Ultrasound Localization Microscopy. <i>Scientific Reports</i> , 2019 , 9, 2456	4.9	49
332	Ultrasound internal tattooing. <i>Medical Physics</i> , 2011 , 38, 1116-23	4.4	49
331	Imaging of perfusion, angiogenesis, and tissue elasticity after stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1496-507	7.3	49
330	Transcranial Functional Ultrasound Imaging in Freely Moving Awake Mice and Anesthetized Young Rats without Contrast Agent. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1679-1689	3.5	48
329	In vivo quantification of the shear modulus of the human Achilles tendon during passive loading using shear wave dispersion analysis. <i>Physics in Medicine and Biology</i> , 2016 , 61, 2485-96	3.8	48
328	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
327	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
326	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

325	Subwavelength motion-correction for ultrafast ultrasound localization microscopy. <i>Ultrasonics</i> , 2017 , 77, 17-21	3.5	47
324	Multiplane wave imaging increases signal-to-noise ratio in ultrafast ultrasound imaging. <i>Physics in Medicine and Biology</i> , 2015 , 60, 8549-66	3.8	47
323	Building three-dimensional images using a time-reversal chaotic cavity. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1489-97	3.2	47
322	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
321	Ultrasound-based imaging methods of the kidney-recent developments. <i>Kidney International</i> , 2016 , 90, 1199-1210	9.9	46
320	Microbubble ultrasound super-localization imaging (MUSLI) 2011 ,		45
319	Intraoperative Functional Ultrasound Imaging of Human Brain Activity. <i>Scientific Reports</i> , 2017 , 7, 7304	4.9	44
318	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue: a multimodality characterization. <i>Physics in Medicine and Biology</i> , 2014 , 59, 6923-40	3.8	44
317	Detection of intrarenal microstructural changes with supersonic shear wave elastography in rats. <i>European Radiology</i> , 2012 , 22, 243-50	8	44
316	Monitoring of thermal therapy based on shear modulus changes: I. shear wave thermometry. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 369-78	3.2	44
315	Potential impact of thermal effects during ultrasonic neurostimulation: retrospective numerical estimation of temperature elevation in seven rodent setups. <i>Physics in Medicine and Biology</i> , 2018 , 63, 025003	3.8	43
314	Supersonic shear wave elastography for the in vivo evaluation of transepithelial corneal collagen cross-linking 2014 , 55, 1976-84		43
313	The Aharonov-Bohm Effect Revisited by an Acoustic Time-Reversal Mirror. <i>Physical Review Letters</i> , 1997 , 79, 3170-3173	7.4	43
312	3D-printed adaptive acoustic lens as a disruptive technology for transcranial ultrasound therapy using single-element transducers. <i>Physics in Medicine and Biology</i> , 2018 , 63, 025026	3.8	43
311	3D functional ultrasound imaging of the cerebral visual system in rodents. <i>NeuroImage</i> , 2017 , 149, 267-274	7.4	42
310	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
309	Ex vivo optimisation of a heterogeneous speed of sound model of the human skull for non-invasive transcranial focused ultrasound at 1 MHz. <i>International Journal of Hyperthermia</i> , 2017 , 33, 635-645	3.7	41
308	In vivo evidence of porcine cornea anisotropy using supersonic shear wave imaging 2014 , 55, 7545-52		41

307	Revisiting iterative time reversal processing: application to detection of multiple targets. <i>Journal of the Acoustical Society of America</i> , 2004 , 115, 776-84	2.2	41
306	Transcriptomic regulations in oligodendroglial and microglial cells related to brain damage following fetal growth restriction. <i>Glia</i> , 2016 , 64, 2306-2320	9	41
305	Local hippocampal fast gamma rhythms precede brain-wide hyperemic patterns during spontaneous rodent REM sleep. <i>Nature Communications</i> , 2018 , 9, 5364	17.4	41
304	Ultrafast Harmonic Coherent Compound (UHCC) Imaging for High Frame Rate Echocardiography and Shear-Wave Elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 420-31	3.2	40
303	MR-guided adaptive focusing of ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 1734-7	3.2	40
302	âUltrasonic starsâFor time-reversal focusing using induced cavitation bubbles. <i>Applied Physics Letters</i> , 2006 , 88, 034102	3.4	40
301	Ultrafast imaging of in vivo muscle contraction using ultrasound. <i>Applied Physics Letters</i> , 2006 , 89, 184103	3.4	40
300	Breaking of time reversal invariance in nonlinear acoustics. <i>Physical Review E</i> , 2001 , 64, 016602	2.4	40
299	Real time shear waves elastography monitoring of thermal ablation: in vivo evaluation in pig livers. <i>Journal of Surgical Research</i> , 2014 , 188, 37-43	2.5	39
298	Adaptive focusing for transcranial ultrasound imaging using dual arrays. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, 2737-45	2.2	39
297	Quantitative imaging of nonlinear shear modulus by combining static elastography and shear wave elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 833-9	3.2	38
296	The link between tissue elasticity and thermal dose in vivo. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7755-65	3.8	37
295	Ultrafast imaging of the arterial pulse wave. <i>Irbm</i> , 2011 , 32, 106-108	4.8	37
294	Shear Wave Imaging of Passive Diastolic Myocardial Stiffness: Stunned Versus Infarcted Myocardium. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1023-1030	8.4	37
293	Transcranial ultrafast ultrasound localization microscopy of brain vasculature in patients. <i>Nature Biomedical Engineering</i> , 2021 , 5, 219-228	19	35
292	Oxytocin receptor agonist reduces perinatal brain damage by targeting microglia. <i>Glia</i> , 2019 , 67, 345-359	9	34
291	A 200-1380-kHz Quadrifrequency Focused Ultrasound Transducer for Neurostimulation in Rodents and Primates: Transcranial In Vitro Calibration and Numerical Study of the Influence of Skull Cavity. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 717-724	3.2	33
290	Contrast enhanced ultrasound by real-time spatiotemporal filtering of ultrafast images. <i>Physics in Medicine and Biology</i> , 2017 , 62, 31-42	3.8	33

289	Ultrafast 3D Ultrasound Localization Microscopy Using a 32 B2 Matrix Array. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2005-2015	11.7	33
288	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
287	Transient optoelastography in optically diffusive media. <i>Applied Physics Letters</i> , 2007 , 90, 174111	3.4	33
286	Time reversal kaleidoscope: A smart transducer for three-dimensional ultrasonic imaging. <i>Applied Physics Letters</i> , 2004 , 84, 3879-3881	3.4	31
285	In Vivo Quantification of the Nonlinear Shear Modulus in Breast Lesions: Feasibility Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 101-9	3.2	30
284	Non-invasive biomechanical characterization of intervertebral discs by shear wave ultrasound elastography: a feasibility study. <i>European Radiology</i> , 2014 , 24, 3210-6	8	30
283	Simultaneous positron emission tomography and ultrafast ultrasound for hybrid molecular, anatomical and functional imaging. <i>Nature Biomedical Engineering</i> , 2018 , 2, 85-94	19	29
282	Multi-scale mapping along the auditory hierarchy using high-resolution functional UltraSound in the awake ferret. <i>ELife</i> , 2018 , 7,	8.9	29
281	Time reversal of photoacoustic waves. <i>Applied Physics Letters</i> , 2006 , 89, 184108	3.4	29
280	A diffraction correction for storage and loss moduli imaging using radiation force based elastography. <i>Physics in Medicine and Biology</i> , 2017 , 62, 91-106	3.8	28
279	Hypothermic Total Liquid Ventilation Is Highly Protective Through Cerebral Hemodynamic Preservation and Sepsis-Like Mitigation After Asphyxial Cardiac Arrest. <i>Critical Care Medicine</i> , 2015 , 43, e420-30	1.4	28
278	Self-defocusing in ultrasonic hyperthermia: Experiment and simulation. <i>Applied Physics Letters</i> , 1999 , 74, 3062-3064	3.4	27
277	Transfer functions linking neural calcium to single voxel functional ultrasound signal. <i>Nature Communications</i> , 2020 , 11, 2954	17.4	26
276	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
275	Functional imaging evidence for task-induced deactivation and disconnection of a major default mode network hub in the mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15270-15280	11.5	25
274	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
273	Time reversal of speckle noise. <i>Physical Review Letters</i> , 2011 , 106, 054301	7.4	25
272	MR-Guided Transcranial Focused Ultrasound. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 880, 97-111	3.6	24

271	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
270	Testicular Shear Wave Elastography in Normal and Infertile Men: A Prospective Study on 601 Patients. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 782-789	3.5	23
269	4D in vivo ultrafast ultrasound imaging using a row-column addressed matrix and coherently-compounded orthogonal plane waves. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4571-4588	3.8	23
268	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
267	Energy-based adaptive focusing of waves: application to noninvasive aberration correction of ultrasonic wavefields. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 2388-99	3.2	23
266	Ultrasonic Adaptive Sound Speed Estimation for the Diagnosis and Quantification of Hepatic Steatosis: A Pilot Study. <i>Ultraschall in Der Medizin</i> , 2019 , 40, 722-733	3.8	23
265	Noninvasive Imaging of the Coronary Vasculature Using Ultrafast Ultrasound. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 798-808	8.4	23
264	Nonlinear viscoelastic properties of tissue assessed by ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 2009-18	3.2	22
263	Arterial Stiffness Assessment by Shear Wave Elastography and Ultrafast Pulse Wave Imaging: Comparison with Reference Techniques in Normotensives and Hypertensives. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 758-772	3.5	22
262	Ultrafast Doppler for neonatal brain imaging. <i>NeuroImage</i> , 2019 , 185, 851-856	7.9	22
261	Direct phase projection and transcranial focusing of ultrasound for brain therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1149-59	3.2	21
260	In vivo targeted delivery of large payloads with an ultrasound clinical scanner. <i>Medical Physics</i> , 2012 , 39, 5229-37	4.4	21
259	Modelling the impulse diffraction field of shear waves in transverse isotropic viscoelastic medium. <i>Physics in Medicine and Biology</i> , 2015 , 60, 3639-54	3.8	20
258	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
257	Quantitative evaluation of atrial radio frequency ablation using intracardiac shear-wave elastography. <i>Medical Physics</i> , 2014 , 41, 112901	4.4	20
256	Suppression of tissue harmonics for pulse-inversion contrast imaging using time reversal. <i>Physics in Medicine and Biology</i> , 2008 , 53, 5469-80	3.8	20
255	Lumbar annulus fibrosus biomechanical characterization in healthy children by ultrasound shear wave elastography. <i>European Radiology</i> , 2016 , 26, 1213-7	8	19
254	Feasibility of Imaging and Treatment Monitoring of Breast Lesions with Three-Dimensional Shear Wave Elastography. <i>Ultraschall in Der Medizin</i> , 2017 , 38, 51-59	3.8	19

253	Myocardial Stiffness Assessment Using Shear Wave Imaging in Pediatric Hypertrophic Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 779-781	8.4	19
252	Correlation between classical rheometry and supersonic shear wave imaging in blood clots. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 2123-36	3.5	19
251	Cardiac shear-wave elastography using a transesophageal transducer: application to the mapping of thermal lesions in ultrasound transesophageal cardiac ablation. <i>Physics in Medicine and Biology</i> , 2015 , 60, 7829-46	3.8	19
250	Transthoracic ultrafast Doppler imaging of human left ventricular hemodynamic function. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1268-75	3.2	19
249	Tumor Delivery of Ultrasound Contrast Agents Using Shiga Toxin B Subunit. <i>Molecular Imaging</i> , 2011 , 10, 7290.2010.00030	3.7	18
248	Potential of MRI and Ultrasound Radiation Force in Elastography: Applications to Diagnosis and Therapy. <i>Proceedings of the IEEE</i> , 2008 , 96, 490-499	14.3	18
247	A large aperture row column addressed probe for in vivo 4D ultrafast doppler ultrasound imaging. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215012	3.8	18
246	In vivo real-time cavitation imaging in moving organs. <i>Physics in Medicine and Biology</i> , 2017 , 62, 843-857	3.8	17
245	Supersonic Shear Wave Imaging to Assess Arterial Nonlinear Behavior and Anisotropy: Proof of Principle via Ex Vivo Testing of the Horse Aorta. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 272586	1.2	17
244	Keyhole acceleration for magnetic resonance acoustic radiation force imaging (MR ARFI). <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1695-703	3.3	17
243	Statistics of acoustically induced bubble-nucleation events in in vitro blood: a feasibility study. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 1812-25	3.5	17
242	In Vivo Evaluation of Cervical Stiffness Evolution during Induced Ripening Using Shear Wave Elastography, Histology and 2 Photon Excitation Microscopy: Insight from an Animal Model. <i>PLoS ONE</i> , 2015 , 10, e0133377	3.7	17
241	Shear wave elastography quantification of blood elasticity during clotting. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 2218-28	3.5	17
240	Ultrafast imaging of the heart using circular wave synthetic imaging with phased arrays 2009 ,		17
239	Adaptive projection method applied to three-dimensional ultrasonic focusing and steering through the ribs. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 716-23	2.2	17
238	Ultrafast imaging of beamformed shear waves induced by the acoustic radiation force. Application to transient elastography 2002 ,		17
237	Ultrafast Ultrasound Imaging in Pediatric and Adult Cardiology: Techniques, Applications, and Perspectives. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1771-1791	8.4	17
236	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

235	Nonlinear reflection of shock shear waves in soft elastic media. <i>Journal of the Acoustical Society of America</i> , 2010 , 127, 683-91	2.2	16
234	Photoacoustic-guided ultrasound therapy with a dual-mode ultrasound array. <i>Journal of Biomedical Optics</i> , 2012 , 17, 061205	3.5	16
233	Steering Capabilities of an Acoustic Lens for Transcranial Therapy: Numerical and Experimental Studies. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 27-37	5	16
232	Quantification of elasticity changes in the myometrium during labor using Supersonic Shear Imaging: a feasibility study. <i>Ultrasonics</i> , 2015 , 56, 183-8	3.5	15
231	Effects of storage temperature on the mechanical properties of porcine kidney estimated using shear wave elastography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 28, 86-93	4.1	15
230	In-vivo non-invasive motion tracking and correction in high intensity focused ultrasound therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 688-91		15
229	High spatiotemporal control of spontaneous reactions using ultrasound-triggered composite droplets. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7205-8	16.4	14
228	Intervertebral disc characterization by shear wave elastography: An in vitro preliminary study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 607-615	1.7	14
227	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
226	Time reversal acoustics 2004 ,		14
225	Acoustic biomolecules enhance hemodynamic functional ultrasound imaging of neural activity. <i>NeuroImage</i> , 2020 , 209, 116467	7.9	14
224	Pharmaco-fUS: Quantification of pharmacologically-induced dynamic changes in brain perfusion and connectivity by functional ultrasound imaging in awake mice. <i>NeuroImage</i> , 2020 , 222, 117231	7.9	14
223	Ultrasonic fat fraction quantification using in vivo adaptive sound speed estimation. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215013	3.8	14
222	An integrated and highly sensitive ultrafast acoustoelectric imaging system for biomedical applications. <i>Physics in Medicine and Biology</i> , 2017 , 62, 5808-5822	3.8	13
221	A fast and switchable microfluidic mixer based on ultrasound-induced vaporization of perfluorocarbon. <i>Lab on A Chip</i> , 2015 , 15, 2025-9	7.2	13
220	Spatiotemporal matrix image formation for programmable ultrasound scanners. <i>Physics in Medicine and Biology</i> , 2018 , 63, 03NT03	3.8	13
219	Ultrafast acousto-optic imaging with ultrasonic plane waves. <i>Optics Express</i> , 2016 , 24, 3774-89	3.3	13
218	Evaluation of Nonradiative Clinical Imaging Techniques for the Longitudinal Assessment of Tumour Growth in Murine CT26 Colon Carcinoma. <i>International Journal of Molecular Imaging</i> , 2013 , 2013, 983534		13

217	Spatio-temporal coding in complex media for optimum beamforming: the iterative time-reversal approach. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 220-30	3.2	13
216	In Vivo Multiparametric Ultrasound Imaging of Structural and Functional Tumor Modifications during Therapy. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2000-2012	3.5	12
215	Effects of pressure on the shear modulus, mass and thickness of the perfused porcine kidney. <i>Journal of Biomechanics</i> , 2015 , 48, 30-7	2.9	12
214	Shear Wave Measurements for Evaluation of Tendon Diseases. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1906-1921	3.2	12
213	Supersonic Shear Wave Elastography of Response to Anti-cancer Therapy in a Xenograft Tumor Model. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 924-30	3.5	12
212	Adaptive motion estimation of shear shock waves in soft solids and tissue with ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1489-503	3.2	12
211	Quantitative Shear-Wave Elastography of the Liver in Preterm Neonates with Intra-Uterine Growth Restriction. <i>PLoS ONE</i> , 2015 , 10, e0143220	3.7	12
210	4D Functional Imaging of the Rat Brain Using a Large Aperture Row-Column Array. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1884-1893	11.7	12
209	Non-invasive ultrasonic modulation of visual evoked response by GABA delivery through the blood brain barrier. <i>Journal of Controlled Release</i> , 2020 , 318, 223-231	11.7	12
208	Early Ultrafast Ultrasound Imaging of Cerebral Perfusion correlates with Ischemic Stroke outcomes and responses to treatment in Mice. <i>Theranostics</i> , 2020 , 10, 7480-7491	12.1	12
207	Wall Shear Stress Measurement by Ultrafast Vector Flow Imaging for Atherosclerotic Carotid Stenosis. <i>Ultraschall in Der Medizin</i> , 2021 , 42, 297-305	3.8	12
206	The SVD Beamformer: Physical Principles and Application to Ultrafast Adaptive Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3100-3112	11.7	11
205	Discriminative imaging of maternal and fetal blood flow within the placenta using ultrafast ultrasound. <i>Scientific Reports</i> , 2015 , 5, 13394	4.9	11
204	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
203	ShearWaveElastography A new real time imaging mode for assessing quantitatively soft tissue viscoelasticity 2008 ,		11
202	Sound focusing in rooms. II. The spatio-temporal inverse filter. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 3044-52	2.2	11
201	Single-trial decoding of movement intentions using functional ultrasound neuroimaging. <i>Neuron</i> , 2021 , 109, 1554-1566.e4	13.9	11
200	Functional Ultrasound Imaging: A New Imaging Modality for Neuroscience. <i>Neuroscience</i> , 2021 , 474, 1103-1121	3.1	11

199	Out-of-plane Doppler imaging based on ultrafast plane wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 625-36	3.2	10
198	Ultrafast ultrasound imaging pattern analysis reveals distinctive dynamic brain states and potent sub-network alterations in arthritic animals. <i>Scientific Reports</i> , 2020 , 10, 10485	4.9	10
197	Dual-arrays brain imaging prototype: experimental in vitro results 2005 ,		10
196	Circulating tPA contributes to neurovascular coupling by a mechanism involving the endothelial NMDA receptors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 2038-2054	7.3	10
195	3-D Longitudinal Imaging of Tumor Angiogenesis in Mice in Vivo Using Ultrafast Doppler Tomography. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1284-1296	3.5	10
194	Bedside functional monitoring of the dynamic brain connectivity in human neonates. <i>Nature Communications</i> , 2021 , 12, 1080	17.4	10
193	4D simultaneous tissue and blood flow Doppler imaging: revisiting cardiac Doppler index with single heart beat 4D ultrafast echocardiography. <i>Physics in Medicine and Biology</i> , 2019 , 64, 085013	3.8	9
192	Mapping Biological Current Densities With Ultrafast Acoustoelectric Imaging: Application to the Beating Rat Heart. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1852-1857	11.7	9
191	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
190	Optimal spatiotemporal focusing through complex scattering media. <i>Physical Review E</i> , 2012 , 85, 016605	5.4	9
189	The Stokes relations linking time reversal and the inverse filter. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 1335-1346	2.2	9
188	Ultra high speed imaging of elasticity 2002 ,		9
187	3D elastic tensor imaging in weakly transversely isotropic soft tissues. <i>Physics in Medicine and Biology</i> , 2018 , 63, 155005	3.8	9
186	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 623751	5.3	9
185	Random calibration for accelerating MR-ARFI guided ultrasonic focusing in transcranial therapy. <i>Physics in Medicine and Biology</i> , 2015 , 60, 1069-85	3.8	8
184	Computationally Efficient Transcranial Ultrasonic Focusing: Taking Advantage of the High Correlation Length of the Human Skull. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 1993-2002	3.2	8
183	Concurrent imaging of vascularization and metabolism in a mouse model of paraganglioma under anti-angiogenic treatment. <i>Theranostics</i> , 2020 , 10, 3518-3532	12.1	8
182	Inside/outside the brain binary cavitation localization based on the lowpass filter effect of the skull on the harmonic content: a proof of concept study. <i>Physics in Medicine and Biology</i> , 2018 , 63, 135012	3.8	8

181	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
180	Evaluation of Antivascular Combretastatin A4 P Efficacy Using Supersonic Shear Imaging Technique of Ectopic Colon Carcinoma CT26. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2352-2361	3.5	8
179	Time-reversal focusing of therapeutic ultrasound on targeted microbubbles. <i>Applied Physics Letters</i> , 2009 , 94, 173901	3.4	8
178	Non-invasive transcranial ultrasound therapy guided by CT-scans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 683-7		8
177	Subwavelength far-field ultrasound drug-delivery. <i>Applied Physics Letters</i> , 2016 , 109, 194102	3.4	8
176	Arterial Stiffening with Ultrafast Ultrasound Imaging Gives New Insight into Arterial Phenotype of Vascular Ehlers-Danlos Mouse Models. <i>Ultraschall in Der Medizin</i> , 2019 , 40, 734-742	3.8	8
175	Pulsed Cavitational Ultrasound Softening: a new non-invasive therapeutic approach of calcified bioprosthetic valve stenosis. <i>JACC Basic To Translational Science</i> , 2017 , 2, 372-383	8.7	7
174	Multi-modal acousto-optic/ultrasound imaging of ex vivo liver tumors at 790 nm using a Sn2 P2 S6 wavefront adaptive holographic setup. <i>Journal of Biophotonics</i> , 2015 , 8, 429-36	3.1	7
173	Magnetic resonance imaging for the exploitation of bubble-enhanced heating by high-intensity focused ultrasound: a feasibility study in ex vivo liver. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 956-64	3.5	7
172	Shear Wave Imaging of the heart using a cardiac phased array with coherent spatial compound		7
	2012 ,		
171	Evaluation of local arterial stiffness using ultrafast imaging: A comparative study using local arterial pulse wave velocity estimation and shear wave imaging		7
	2010 ,		
170	Multiwave technology introducing shear wave elastography of the kidney: Pre-clinical study on a kidney fibrosis model and clinical feasibility study on 49 human renal transplants		7
	2010 ,		
169	Study of viscous and elastic properties of soft tissues using supersonic shear imaging		7
	2003 ,		
168	Influence of boundary conditions on time-reversal focusing through heterogeneous media. <i>Applied Physics Letters</i> , 1998 , 72, 2511-2513	3.4	7
167	Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. <i>Cardiovascular Research</i> , 2021 ,	9.9	7
166	Multi-parametric functional ultrasound imaging of cerebral hemodynamics in a cardiopulmonary resuscitation model. <i>Scientific Reports</i> , 2018 , 8, 16436	4.9	7
165	Adaptive Spatiotemporal Filtering for Coronary Ultrafast Doppler Angiography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 2201-2204	3.2	7
164	Performance evaluation of the PET component of a hybrid PET/CT-ultrafast ultrasound imaging instrument. <i>Physics in Medicine and Biology</i> , 2018 , 63, 19NT01	3.8	6

163	Rheology over five orders of magnitude in model hydrogels: agreement between strain-controlled rheometry, transient elastography, and supersonic shear wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 946-54	3.2	6
162	Observation of the internal response of the kidney during compressive loading using ultrafast ultrasonography. <i>Journal of Biomechanics</i> , 2015 , 48, 1852-9	2.9	6
161	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
160	Ultrasons focalisés de forte intensité pour la thérapie transcrânienne du cerveau. <i>Irbm</i> , 2010 , 31, 87-91	4.8	6
159	Measurement of Shear Elastic Moduli in Quasi-Incompressible Soft Solids. <i>AIP Conference Proceedings</i> , 2008 ,	0	6
158	High power phased array prototype for clinical high intensity focused ultrasound : applications to transcostal and transcranial therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 234-7		6
157	Adaptive Focusing For Ultrasonic Transcranial Brain Therapy: First In Vivo Investigation On 22 Sheep. <i>AIP Conference Proceedings</i> , 2005 ,	0	6
156	Vortex imaging using two-dimensional ultrasonic speckle correlation 2001 ,		6
155	Scattering of sound by a vorticity filament: an experimental and numerical investigation. <i>Physical Review E</i> , 2001 , 63, 036607	2.4	6
154	2D Transient Elastography 2000 , 485-492		6
153	A Multiwave Imaging Approach for Elastography. <i>Current Medical Imaging</i> , 2011 , 7, 340-349	1.2	6
152	Adaptive modulation of brain hemodynamics across stereotyped running episodes. <i>Nature Communications</i> , 2020 , 11, 6193	17.4	6
151	A 3D time reversal cavity for the focusing of high-intensity ultrasound pulses over a large volume. <i>Physics in Medicine and Biology</i> , 2017 , 62, 810-824	3.8	5
150	In situ targeted activation of an anticancer agent using ultrasound-triggered release of composite droplets. <i>European Journal of Medicinal Chemistry</i> , 2017 , 142, 2-7	6.8	5
149	A new method to assess the deformations of internal organs of the abdomen during impact. <i>Traffic Injury Prevention</i> , 2016 , 17, 821-6	1.8	5
148	Use of shear wave elastography for monitoring enzymatic milk coagulation. <i>Journal of Food Engineering</i> , 2014 , 136, 73-79	6	5
147	ULTRAFAST COMPOUND DOPPLER IMAGING: A NEW APPROACH OF DOPPLER FLOW ANALYSIS 2010 ,		5
146	Ultrasonic transcranial brain therapy: first in vivo clinical investigation on 22 sheep using adaptive focusing 2004 ,		5

- 145 Prediction of the skull overheating during high intensity focused ultrasound transcranial brain therapy **2004**, 5
- 144 NUMERICAL AND EXPERIMENTAL TIME-REVERSAL OF ACOUSTIC WAVES IN RANDOM MEDIA. *Journal of Computational Acoustics*, **2001**, 09, 993-1003 5
- 143 Experimental validation of 3D finite differences simulations of ultrasonic wave propagation through the skull **2001**, 5
- 142 Large-scale functional ultrasound imaging of the spinal cord reveals in-depth spatiotemporal responses of spinal nociceptive circuits in both normal and inflammatory states. *Pain*, **2021**, 162, 1047-1059 5
- 141 Feasibility and Performance of Noninvasive Ultrasound Therapy in Patients With Severe Symptomatic Aortic Valve Stenosis: A First-in-Human Study. *Circulation*, **2021**, 143, 968-970 16.7 5
- 140 Pulsed cavitation ultrasound for non-invasive chordal cutting guided by real-time 3D echocardiography. *European Heart Journal Cardiovascular Imaging*, **2016**, 17, 1101-7 4.1 5
- 139 Toward Noninvasive Assessment of CVP Variations Using Real-Time and Quantitative Liver Stiffness Estimation. *JACC: Cardiovascular Imaging*, **2017**, 10, 1285-1286 8.4 4
- 138 Pulsed cavitation therapy using high-frequency ultrasound for the treatment of deep vein thrombosis in an in vitro model of human blood clot. *Physics in Medicine and Biology*, **2017**, 62, 9282-9294 3.8 4
- 137 Quantitative imaging of coronary flows using 3D ultrafast Doppler coronary angiography. *Physics in Medicine and Biology*, **2020**, 65, 105013 3.8 4
- 136 Non invasive and real time evaluation of mice aortic stiffness by ultrafast ultrasound imaging: a new tool for evaluation of preclinical vascular disease models. *European Heart Journal*, **2013**, 34, P2527-P2527 0.5 4
- 135 Real time quantitative elastography using Supersonic Shear wave Imaging **2010**, 4
- 134 Energy-based adaptive focusing of waves: Application to ultrasonic imaging and therapy **2008**, 4
- 133 8C-5 Full 3D Inversion of the Viscoelasticity Wave Propagation Problem for 3D Ultrasound Elastography in Breast Cancer Diagnosis. *Proceedings IEEE Ultrasonics Symposium*, **2007**, 4
- 132 7B-2 Nonlinear Shear Elastic Moduli in Quasi-Incompressible Soft Solids. *Proceedings IEEE Ultrasonics Symposium*, **2007**, 4
- 131 Time-resolved 2D pulsed elastography: experiments on tissue-equivalent phantoms and breast in vivo **2001**, 4
- 130 Reduction of the thermo-acoustic lens effect during ultrasound-based temperature estimation **2002**, 4
- 129 Ultrasound-based noninvasive shear elasticity probe for soft tissues **2000**, 4
- 128 Focusing through skull with time reversal mirrors. Application to hyperthermia **1996**, 4

127	Time Reversing Waves For Biomedical Applications. <i>Lecture Notes in Mathematics</i> , 2009 , 73-97	0.4	4
126	Feasibility and safety of non-invasive ultrasound therapy (NIUT) on porcine aortic valve. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	4
125	4D Ultrafast Ultrasound Imaging of Naturally Occurring Shear Waves in the Human Heart. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 4436-4444	11.7	4
124	Functional ultrasound imaging of the spreading activity following optogenetic stimulation of the rat visual cortex. <i>Scientific Reports</i> , 2021 , 11, 12603	4.9	4
123	A versatile and robust microfluidic device for capillary-sized simple or multiple emulsions production. <i>Biomedical Microdevices</i> , 2018 , 20, 94	3.7	4
122	Ultrafast Ultrasound Imaging for Super-Resolution Preclinical Cardiac PET. <i>Molecular Imaging and Biology</i> , 2020 , 22, 1342-1352	3.8	3
121	Ultrasensitive Doppler based neuronavigation system for preclinical brain imaging applications 2016 ,		3
120	Functional ultrasound imaging of the human brain activity: An intraoperative pilot study for cortical functional mapping 2016 ,		3
119	3D Imaging with a Time Reversal Cavity: Towards Transcostal Focusing for Shock Wave Therapy. <i>Irbm</i> , 2017 , 38, 234-237	4.8	3
118	A semi-analytical model of a time reversal cavity for high-amplitude focused ultrasound applications. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7471-7481	3.8	3
117	Shear wave elastography for lipid content detection in transverse arterial cross-sections 2015 ,		3
116	Ultrafast acoustoelectric imaging 2014 ,		3
115	Towards backscatter tensor imaging (BTI): Analysis of the spatial coherence of ultrasonic speckle in anisotropic soft tissues 2013 ,		3
114	2010 ,		3
113	Portal vein thrombosis and pulmonary artery thromboembolism after laparoscopic colectomy. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2011 , 20, 301-6	2.1	3
112	Shear wave elastography in obstetrics: Quantification of cervix elasticity and uterine contraction 2011 ,		3
111	The time reversal kaleidoscope: a new concept of smart transducers for 3D imaging 2003 ,		3
110	Megalencephalic leukoencephalopathy with subcortical cysts is a developmental disorder of the gliovascular unit. <i>ELife</i> , 2021 , 10,	8.9	3

109	In-vivo 4D Ultrafast vector flow imaging: Quantitative assessment of arterial blood flow 2016 ,		3
108	Whole-Brain 3D Activation and Functional Connectivity Mapping in Mice using Transcranial Functional Ultrasound Imaging. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	3
107	Viscoelastic Creep Imaging 2018 , 171-188		3
106	A functional ultrasound brain GPS for automatic vascular-based neuronavigation. <i>Scientific Reports</i> , 2021 , 11, 15197	4.9	3
105	In vivo whole brain microvascular imaging in mice using transcranial 3D Ultrasound Localization Microscopy.. <i>EBioMedicine</i> , 2022 , 79, 103995	8.8	3
104	Non-invasive Myocardial Shear Wave Elastography Device for Clinical Applications in Cardiology. <i>Irbm</i> , 2017 , 38, 357-362	4.8	2
103	Flow Rate and Low Hematocrit Measurements for In Vitro Blood Processing With Doppler Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 1293-1302	3.2	2
102	Self-adaptive ultrasonic beam amplifiers: application to transcatheter shock wave therapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 175014	3.8	2
101	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue 2014 ,		2
100	A new method to assess the deformations of internal organs of the abdomen during impact. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 202-3	2.1	2
99	Validation of an intracardiac ultrasonic therapyâimaging dual mode transducer. <i>Irbm</i> , 2015 , 36, 351-354	4.8	2
98	Comparison of tumor microvasculature assessment via Ultrafast Doppler Tomography and Dynamic Contrast Enhanced Ultrasound 2014 ,		2
97	Measurement of pulsatile motion with millisecond resolution by MRI. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1787-93	4.4	2
96	Intervertebral disc characterisation by elastography: a preliminary study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 275-7	2.1	2
95	Transcranial ultrasound neuromodulation of the contralateral visual field in awake monkey 2013 ,		2
94	Radiation force localization of HIFU therapeutic beams coupled with magnetic resonance-elastography treatment monitoring in vivo application to the rat brain 2008 ,		2
93	âUltrasonic starsâfor time reversal focusing using induced cavitation bubbles. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
92	Non-Invasive Transcranial Brain Therapy Guided by CT Scans: an In Vivo Monkey Study. <i>AIP Conference Proceedings</i> , 2007 ,	0	2

91	ULTRASOUND PROPAGATION THROUGH A ROTATIONAL FLOW: NUMERICAL METHODS COMPARED TO EXPERIMENTS. <i>Journal of Computational Acoustics</i> , 2001 , 09, 841-852		2
90	An Isotropic Minimal Path Based Framework for Segmentation and Quantification of Vascular Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 499-513	0.9	2
89	Multi-scale mapping along the auditory hierarchy using high-resolution functional UltraSound in the awake ferret		2
88	Ultrafast Radial Modulation Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 598-611	3.2	2
87	Non-invasive recanalization of deep venous thrombosis by high frequency ultrasound in a swine model with follow-up. <i>Journal of Thrombosis and Haemostasis</i> , 2020 , 18, 2889-2898	15.4	2
86	Comparison Between Ray-Tracing and Full-Wave Simulation for Transcranial Ultrasound Focusing on a Clinical System Using the Transfer Matrix Formalism. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2554-2565	3.2	2
85	2D and 3D real-time passive cavitation imaging of pulsed cavitation ultrasound therapy in moving tissues. <i>Physics in Medicine and Biology</i> , 2018 , 63, 235028	3.8	2
84	Ultrafast 4D Doppler Imaging of the Rat Brain with a Large Aperture Row Column Addressed Probe 2018 ,		2
83	Controlled mechanical vibration and impacts on skin biology. <i>Skin Research and Technology</i> , 2019 , 25, 881-889	1.9	1
82	Recovering shear wave velocity in boundary sensitive media with two-dimensional motion tracking 2014 ,		1
81	In vivo cervical intervertebral disc characterisation by elastography. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17 Suppl 1, 120-1	2.1	1
80	Elastographie ultrasonore : principes et procédés. <i>Diagnostic and Interventional Imaging</i> , 2013 , 94, 504-513		1
79	Disruptive Technologies Shaping the Law of the Future. <i>Perspectives in Law, Business and Innovation</i> , 2017 , 1-14	0.4	1
78	Analysis of Rayleigh-Lamb Modes in Soft-solids with Application to Surface Wave Elastography. <i>Physics Procedia</i> , 2015 , 70, 175-178		1
77	Complementarity of shear wave elastography and dynamic contrast-enhanced ultrasound to discriminate tumor modifications during antiangiogenic and cytotoxic therapy 2014 ,		1
76	Intraoperative Quantitative Measurement of Brain Tumor Stiffness and Intracranial Pressure Assessment using Ultrasound Shear Wave Elastography 2014 ,		1
75	Internal kidney's behaviour during compressive loading using ultrafast echography. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16 Suppl 1, 200-1	2.1	1
74	In vivo transthoracic ultrafast Doppler imaging of left intraventricular blood flow pattern 2013 ,		1

73	Supersonic shear wave imaging to assess arterial anisotropy: Ex-vivo testing of the horse aorta 2013 ,		1
72	2010 ,		1
71	Numerical prediction of frequency dependent 3D maps of mechanical index thresholds in ultrasonic brain therapy 2010 ,		1
70	Experimental reverse time migration for imaging of elasticity changes 2010 ,		1
69	High sensitivity brain angiography using Ultrafast Doppler 2010 ,		1
68	In vivo brain elasticity mapping in small animals using ultrasound and its application to cerebral ischemia 2010 ,		1
67	Cavitation bubble generation and control for HIFU transcranial adaptive focusing 2009 ,		1
66	Energy-Based Adaptive Focusing of waves: Application to Ultrasonic Transcranial Therapy 2009 ,		1
65	High frequency rheology of hybrid hydrogels using ultrasound transient elastography 2012 ,		1
64	Ultrafast plane wave imaging: Doppler frequency distribution 2012 ,		1
63	High Resolution MR-Elastography : a Unique Tool to Study the Rheological Properties of Tissue In Vivo and the Origin of Its Multiscale Behaviour. <i>AIP Conference Proceedings</i> , 2008 ,	O	1
62	Tissue harmonics cancellation using time-reversal 2008 ,		1
61	Non-invasive quantitative imaging of arterial wall elasticity using supersonic shear imaging 2008 ,		1
60	Ultrafast ultrasonic imaging of in vivo muscle contraction 2006 ,		1
59	4J-5 A 3D Elastography System Based on the Concept of Ultrasound-Computed Tomography for In Vivo Breast Examination 2006 ,		1
58	Imaging of optically diffusive media by use of opto-elastography 2007 ,		1
57	L'elastographie par ultrasons ou résonance magnétique : de nouveaux outils de diagnostic en cancérologie. <i>Medecine Nucleaire</i> , 2007 , 31, 132-141	O.1	1
56	Ultrasonically induced necrosis through the rib cage based on adaptive focusing: ex vivo experiments 2003 ,		1

55	Pulse echo imaging through a human skull: in vitro experiments 2001 ,		1
54	Acoustic time reversal experiments in nonlinear regime. <i>AIP Conference Proceedings</i> , 2000 ,	0	1
53	Time reversal invariance of nonlinear acoustic wave propagation in weakly viscous media 1999 ,		1
52	Sonogenetic stimulation of the brain at a spatiotemporal resolution suitable for vision restoration		1
51	âOnlineâmodulation of brain hemodynamics despite stereotyped running		1
50	Single Trial Decoding of Movement Intentions Using Functional Ultrasound Neuroimaging		1
49	Functional ultrasound imaging of deep visual cortex in awake non-human primates		1
48	Von Willebrand factor multimers during non-invasive ultrasound therapy for aortic valve stenosis. <i>Angiogenesis</i> , 2021 , 24, 715-717	10.6	1
47	Carotid Plaque Vulnerability Assessed by Combined Shear Wave Elastography and Ultrafast Doppler Compared to Histology. <i>Translational Stroke Research</i> , 2021 , 1	7.8	1
46	Functional Ultrasound Imaging of the thalamo-cortical auditory tract in awake ferrets using ultrafast Doppler imaging 2016 ,		1
45	The Supplementary Eye Field Tracks Cognitive Efforts		1
44	Quantitative Cardiac Output Assessment Using 4D Ultrafast Doppler Imaging: An in Vitro Study 2018 ,		1
43	Wave Propagation in Viscoelastic Materials 2018 , 118-127		1
42	Musculoskeletal Applications of Supersonic Shear Imaging 2018 , 534-544		1
41	Nonlinear Shear Elasticity 2018 , 451-469		1
40	XDoppler: Cross-Correlation of Orthogonal Apertures for 3D Blood Flow Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3358-3368	11.7	1
39	Dealiasing High-Frame-Rate Color Doppler Using Dual-Wavelength Processing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2117-2128	3.2	0
38	Ret kinase-mediated mechanical induction of colon stem cells by tumor growth pressure stimulates cancer progression in vivo.. <i>Communications Biology</i> , 2022 , 5, 137	6.7	0

- 37 Ultrasound localization microscopy and functional ultrasound imaging reveal atypical features of the trigeminal ganglion vasculature.. *Communications Biology*, **2022**, 5, 330 6.7 ○
- 36 Ultrafast Doppler imaging and ultrasound localization microscopy reveal the complexity of vascular rearrangement in chronic spinal lesion.. *Scientific Reports*, **2022**, 12, 6574 4.9 ○
- 35 Covariations between pupil diameter and supplementary eye field activity suggest a role in cognitive effort implementation. *PLoS Biology*, **2022**, 20, e3001654 9.7 ○
- 34 Non-invasive Evaluation of Aortic Stiffness Dependence with Aortic Blood Pressure and Internal Radius by Shear Wave Elastography and Ultrafast Imaging. *Irbm*, **2018**, 39, 9-17 4.8
- 33 [PP.25.43] CHANGES OF INTRINSIC STIFFNESS OF THE CAROTID ARTERIAL WALL DURING THE CARDIAC CYCLE MEASURED BY SHEAR WAVE ELASTOGRAPHY IN HYPERTENSIVES COMPARED TO NORMOTENSIVES. *Journal of Hypertension*, **2017**, 35, e305 1.9
- 32 From Multiwave Imaging to Elasticity Imaging **2013**, 1-21
- 31 Lack of systolic arterial stiffening in vascular Ehlers-Danlos syndrom. *European Heart Journal*, **2013**, 34, 4540-4540 9.5
- 30 Time-Reversal of Waves 399-412
- 29 4. Green's Function Reconstruction **2008**, 99-329
- 28 Martha Dickinson Bianchi: War Poet. *New England Quarterly-A Historical Review of New England Life and Letters*, **2007**, 80, 317-321 ○
- 27 Temperature estimation using ultrasonic spatial compound imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2004**, 51, 606-615 3.2
- 26 Comparison Between Time Reversal and Inverse Filter Focusing **2000**, 101-108
- 25 New Developments in Ultrasonic Adaptive Focusing Through the Human Skull: Application to Non Invasive Brain Therapy and Imaging. *Acoustical Imaging*, **2004**, 447-456
- 24 Harmonic Shear Wave Elastography **2018**, 238-249
- 23 Theory of Ultrasound Physics and Imaging **2018**, 7-28
- 22 Transient Elastography: From Research to Noninvasive Assessment of Liver Fibrosis Using Fibroscan® **2018**, 295-317
- 21 Transverse Wave Propagation in Anisotropic Media **2018**, 82-89
- 20 Transverse Wave Propagation in Bounded Media **2018**, 90-104

- 19 Rheological Model-based Methods for Estimating Tissue Viscoelasticity **2018**, 105-117
- 18 Supersonic Shear Imaging **2018**, 357-367
- 17 Current and Future Clinical Applications of Elasticity Imaging Techniques **2018**, 471-491
- 16 Intrinsic Cardiovascular Wave and Strain Imaging **2018**, 189-226
- 15 Harmonic Motion Imaging **2018**, 264-283
- 14 Shear Wave Dispersion Ultrasound Vibrometry **2018**, 284-294
- 13 From Time Reversal to Natural Shear Wave Imaging **2018**, 318-333
- 12 Acoustic Radiation Force Impulse Ultrasound **2018**, 334-356
- 11 Single Tracking Location Shear Wave Elastography **2018**, 368-387
- 10 Comb-push Ultrasound Shear Elastography **2018**, 388-397
- 9 Anisotropic Shear Wave Elastography **2018**, 399-421
- 8 Application of Guided Waves for Quantifying Elasticity and Viscoelasticity of Boundary Sensitive Organs **2018**, 422-441
- 7 Abdominal Applications of Shear Wave Ultrasound Vibrometry and Supersonic Shear Imaging **2018**, 492-503
- 6 Acoustic Radiation Force-based Ultrasound Elastography for Cardiac Imaging Applications **2018**, 504-519
- 5 Cardiovascular Application of Shear Wave Elastography **2018**, 520-533
- 4 Breast Shear Wave Elastography **2018**, 545-556
- 3 Thyroid Shear Wave Elastography **2018**, 557-566
- 2 Historical Growth of Ultrasound Elastography and Directions for the Future **2018**, 567-579

- 1 Intensity distribution segmentation in ultrafast Doppler combined with scanning laser confocal microscopy for assessing vascular changes associated with ageing in murine hippocampi.. *Scientific Reports*, **2022**, 12, 6784 4.9