

Mickael Tanter

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.

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|--------------------|--------------------------|----------------|-----------------|
| 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 | 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 |
| 449 | Ultrasound localization microscopy and functional ultrasound imaging reveal atypical features of the trigeminal ganglion vasculature.. <i>Communications Biology</i> , 2022 , 5, 330 | 6.7 | 0 |
| 448 | Ultrafast Doppler imaging and ultrasound localization microscopy reveal the complexity of vascular rearrangement in chronic spinal lesion.. <i>Scientific Reports</i> , 2022 , 12, 6574 | 4.9 | 0 |
| 447 | In vivo whole brain microvascular imaging in mice using transcranial 3D Ultrasound Localization Microscopy.. <i>EBioMedicine</i> , 2022 , 79, 103995 | 8.8 | 3 |
| 446 | Intensity distribution segmentation in ultrafast Doppler combined with scanning laser confocal microscopy for assessing vascular changes associated with ageing in murine hippocampi.. <i>Scientific Reports</i> , 2022 , 12, 6784 | 4.9 | |
| 445 | Covariations between pupil diameter and supplementary eye field activity suggest a role in cognitive effort implementation. <i>PLoS Biology</i> , 2022 , 20, e3001654 | 9.7 | 0 |
| 444 | Megalencephalic leukoencephalopathy with subcortical cysts is a developmental disorder of the gliovascular unit. <i>ELife</i> , 2021 , 10, | 8.9 | 3 |
| 443 | Large-scale functional ultrasound imaging of the spinal cord reveals in-depth spatiotemporal responses of spinal nociceptive circuits in both normal and inflammatory states. <i>Pain</i> , 2021 , 162, 1047-1059 | 8 | 5 |
| 442 | Transcranial ultrafast ultrasound localization microscopy of brain vasculature in patients. <i>Nature Biomedical Engineering</i> , 2021 , 5, 219-228 | 19 | 35 |
| 441 | Feasibility and Performance of Noninvasive Ultrasound Therapy in Patients With Severe Symptomatic Aortic Valve Stenosis: A First-in-Human Study. <i>Circulation</i> , 2021 , 143, 968-970 | 16.7 | 5 |
| 440 | Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. <i>Cardiovascular Research</i> , 2021 , | 9.9 | 7 |
| 439 | Single-trial decoding of movement intentions using functional ultrasound neuroimaging. <i>Neuron</i> , 2021 , 109, 1554-1566.e4 | 13.9 | 11 |
| 438 | 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 |
| 437 | Von Willebrand factor multimers during non-invasive ultrasound therapy for aortic valve stenosis. <i>Angiogenesis</i> , 2021 , 24, 715-717 | 10.6 | 1 |
| 436 | 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 |
| 435 | 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 |
| 434 | 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 |

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|-----|---|------|----|
| 433 | 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 |
| 432 | 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 |
| 431 | Bedside functional monitoring of the dynamic brain connectivity in human neonates. <i>Nature Communications</i> , 2021 , 12, 1080 | 17.4 | 10 |
| 430 | A functional ultrasound brain GPS for automatic vascular-based neuronavigation. <i>Scientific Reports</i> , 2021 , 11, 15197 | 4.9 | 3 |
| 429 | Functional Ultrasound Imaging: A New Imaging Modality for Neuroscience. <i>Neuroscience</i> , 2021 , 474, 1103-1121 | 3.1 | 11 |
| 428 | New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 623751 | 5.3 | 9 |
| 427 | 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 |
| 426 | Quantitative imaging of coronary flows using 3D ultrafast Doppler coronary angiography. <i>Physics in Medicine and Biology</i> , 2020 , 65, 105013 | 3.8 | 4 |
| 425 | 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 |
| 424 | 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 |
| 423 | 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 |
| 422 | Transfer functions linking neural calcium to single voxel functional ultrasound signal. <i>Nature Communications</i> , 2020 , 11, 2954 | 17.4 | 26 |
| 421 | 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 |
| 420 | 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 |
| 419 | 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 |
| 418 | Ultrafast Ultrasound Imaging for Super-Resolution Preclinical Cardiac PET. <i>Molecular Imaging and Biology</i> , 2020 , 22, 1342-1352 | 3.8 | 3 |
| 417 | 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 |
| 416 | Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 865-891 | 3.5 | 83 |

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|-----|---|------|----|
| 415 | 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 |
| 414 | Ultrafast Radial Modulation Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 598-611 | 3.2 | 2 |
| 413 | 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 |
| 412 | Ultrafast Ultrasound Imaging in Pediatric and Adult Cardiology: Techniques, Applications, and Perspectives. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1771-1791 | 8.4 | 17 |
| 411 | Acoustic biomolecules enhance hemodynamic functional ultrasound imaging of neural activity. <i>NeuroImage</i> , 2020 , 209, 116467 | 7.9 | 14 |
| 410 | 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 |
| 409 | 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 |
| 408 | Feasibility and safety of non-invasive ultrasound therapy (NIUT) on porcine aortic valve. <i>Physics in Medicine and Biology</i> , 2020 , | 3.8 | 4 |
| 407 | 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 |
| 406 | 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 |
| 405 | 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 |
| 404 | Adaptive modulation of brain hemodynamics across stereotyped running episodes. <i>Nature Communications</i> , 2020 , 11, 6193 | 17.4 | 6 |
| 403 | 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 |
| 402 | 4D functional ultrasound imaging of whole-brain activity in rodents. <i>Nature Methods</i> , 2019 , 16, 994-997 | 21.6 | 63 |
| 401 | 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 |
| 400 | 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 |
| 399 | 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 |
| 398 | 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 |

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|-----|---|------|----|
| 397 | 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 |
| 396 | Controlled mechanical vibration and impacts on skin biology. <i>Skin Research and Technology</i> , 2019 , 25, 881-889 | 1.9 | 1 |
| 395 | 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 |
| 394 | 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 |
| 393 | 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 |
| 392 | 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 |
| 391 | Oxytocin receptor agonist reduces perinatal brain damage by targeting microglia. <i>Glia</i> , 2019 , 67, 345-359 | 3.9 | 34 |
| 390 | 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 |
| 389 | Ultrafast Doppler for neonatal brain imaging. <i>NeuroImage</i> , 2019 , 185, 851-856 | 7.9 | 22 |
| 388 | 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 |
| 387 | 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 |
| 386 | 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 |
| 385 | Non-invasive Evaluation of Aortic Stiffness Dependence with Aortic Blood Pressure and Internal Radius by Shear Wave Elastography and Ultrafast Imaging. <i>Irbm</i> , 2018 , 39, 9-17 | 4.8 | |
| 384 | 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 |
| 383 | Myocardial Stiffness Assessment Using Shear Wave Imaging in Pediatric Hypertrophic Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 779-781 | 8.4 | 19 |
| 382 | Spatiotemporal matrix image formation for programmable ultrasound scanners. <i>Physics in Medicine and Biology</i> , 2018 , 63, 03NT03 | 3.8 | 13 |
| 381 | 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 |
| 380 | Multi-scale mapping along the auditory hierarchy using high-resolution functional UltraSound in the awake ferret. <i>ELife</i> , 2018 , 7, | 8.9 | 29 |

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| 379 | Self-adaptive ultrasonic beam amplifiers: application to transcostal shock wave therapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 175014 | 3.8 | 2 |
| 378 | 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 |
| 377 | 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 |
| 376 | 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 |
| 375 | 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 |
| 374 | Noninvasive Imaging of the Coronary Vasculature Using Ultrafast Ultrasound. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 798-808 | 8.4 | 23 |
| 373 | Quantitative Cardiac Output Assessment Using 4D Ultrafast Doppler Imaging: An in Vitro Study 2018 , | | 1 |
| 372 | 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 |
| 371 | 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 |
| 370 | Ultrafast 4D Doppler Imaging of the Rat Brain with a Large Aperture Row Column Addressed Probe 2018 , | | 2 |
| 369 | Multi-parametric functional ultrasound imaging of cerebral hemodynamics in a cardiopulmonary resuscitation model. <i>Scientific Reports</i> , 2018 , 8, 16436 | 4.9 | 7 |
| 368 | Ultrasonic fat fraction quantification using in vivo adaptive sound speed estimation. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215013 | 3.8 | 14 |
| 367 | 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 |
| 366 | 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 |
| 365 | Harmonic Shear Wave Elastography 2018 , 238-249 | | |
| 364 | Theory of Ultrasound Physics and Imaging 2018 , 7-28 | | |
| 363 | Transient Elastography: From Research to Noninvasive Assessment of Liver Fibrosis Using Fibroscan® 2018 , 295-317 | | |
| 362 | Transverse Wave Propagation in Anisotropic Media 2018 , 82-89 | | |

- 361 Transverse Wave Propagation in Bounded Media **2018**, 90-104
- 360 Rheological Model-based Methods for Estimating Tissue Viscoelasticity **2018**, 105-117
- 359 Wave Propagation in Viscoelastic Materials **2018**, 118-127 1
- 358 Supersonic Shear Imaging **2018**, 357-367
- 357 Current and Future Clinical Applications of Elasticity Imaging Techniques **2018**, 471-491
- 356 Musculoskeletal Applications of Supersonic Shear Imaging **2018**, 534-544 1
- 355 A versatile and robust microfluidic device for capillary-sized simple or multiple emulsions production. *Biomedical Microdevices*, **2018**, 20, 94 3-7 4
- 354 Viscoelastic Creep Imaging **2018**, 171-188 3
- 353 Intrinsic Cardiovascular Wave and Strain Imaging **2018**, 189-226
- 352 Harmonic Motion Imaging **2018**, 264-283
- 351 Shear Wave Dispersion Ultrasound Vibrometry **2018**, 284-294
- 350 From Time Reversal to Natural Shear Wave Imaging **2018**, 318-333
- 349 Acoustic Radiation Force Impulse Ultrasound **2018**, 334-356
- 348 Single Tracking Location Shear Wave Elastography **2018**, 368-387
- 347 Comb-push Ultrasound Shear Elastography **2018**, 388-397
- 346 Anisotropic Shear Wave Elastography **2018**, 399-421
- 345 Application of Guided Waves for Quantifying Elasticity and Viscoelasticity of Boundary Sensitive Organs **2018**, 422-441
- 344 Nonlinear Shear Elasticity **2018**, 451-469 1

- 343 Abdominal Applications of Shear Wave Ultrasound Vibrometry and Supersonic Shear Imaging **2018**, 492-503
- 342 Acoustic Radiation Force-based Ultrasound Elastography for Cardiac Imaging Applications **2018**, 504-519
- 341 Cardiovascular Application of Shear Wave Elastography **2018**, 520-533
- 340 Breast Shear Wave Elastography **2018**, 545-556
- 339 Thyroid Shear Wave Elastography **2018**, 557-566
- 338 Historical Growth of Ultrasound Elastography and Directions for the Future **2018**, 567-579
- 337 3D elastic tensor imaging in weakly transversely isotropic soft tissues. *Physics in Medicine and Biology*, **2018**, 63, 155005 3.8 9
- 336 Ultrasound Localization Microscopy and Super-Resolution: A State of the Art. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1304-1320 3.2 85
- 335 Feasibility of Imaging and Treatment Monitoring of Breast Lesions with Three-Dimensional Shear Wave Elastography. *Ultraschall in Der Medizin*, **2017**, 38, 51-59 3.8 19
- 334 A 3D time reversal cavity for the focusing of high-intensity ultrasound pulses over a large volume. *Physics in Medicine and Biology*, **2017**, 62, 810-824 3.8 5
- 333 Testicular Shear Wave Elastography in Normal and Infertile Men: A Prospective Study on 601 Patients. *Ultrasound in Medicine and Biology*, **2017**, 43, 782-789 3.5 23
- 332 A diffraction correction for storage and loss moduli imaging using radiation force based elastography. *Physics in Medicine and Biology*, **2017**, 62, 91-106 3.8 28
- 331 Light controls cerebral blood flow in naive animals. *Nature Communications*, **2017**, 8, 14191 17.4 88
- 330 In vivo real-time cavitation imaging in moving organs. *Physics in Medicine and Biology*, **2017**, 62, 843-857 3.8 17
- 329 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. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2017**, 64, 717-724 3.2 33
- 328 Robust sound speed estimation for ultrasound-based hepatic steatosis assessment. *Physics in Medicine and Biology*, **2017**, 62, 3582-3598 3.8 61
- 327 Ex vivo optimisation of a heterogeneous speed of sound model of the human skull for non-invasive transcranial focused ultrasound at 1 MHz. *International Journal of Hyperthermia*, **2017**, 33, 635-645 3.7 41
- 326 Subwavelength motion-correction for ultrafast ultrasound localization microscopy. *Ultrasonics*, **2017**, 77, 17-21 3.5 47

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| 325 | 3D functional ultrasound imaging of the cerebral visual system in rodents. <i>NeuroImage</i> , 2017 , 149, 267-274 | 4.2 | 42 |
| 324 | 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 |
| 323 | Toward Noninvasive Assessment of CVP Variations Using Real-Time and Quantitative Liver Stiffness Estimation. <i>JACC: Cardiovascular Imaging</i> , 2017 , 10, 1285-1286 | 8.4 | 4 |
| 322 | 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 |
| 321 | 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 |
| 320 | Pulsed Cavitation 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 |
| 319 | 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 |
| 318 | 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 |
| 317 | 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 |
| 316 | Non-invasive Myocardial Shear Wave Elastography Device for Clinical Applications in Cardiology. <i>Irbm</i> , 2017 , 38, 357-362 | 4.8 | 2 |
| 315 | Functional ultrasound imaging of brain activity in human newborns. <i>Science Translational Medicine</i> , 2017 , 9, | 17.5 | 78 |
| 314 | Pulsed cavitation therapy using high-frequency ultrasound for the treatment of deep vein thrombosis in an in vitro model of human blood clot. <i>Physics in Medicine and Biology</i> , 2017 , 62, 9282-9294 | 2.8 | 4 |
| 313 | Disruptive Technologies Shaping the Law of the Future. <i>Perspectives in Law, Business and Innovation</i> , 2017 , 1-14 | 0.4 | 1 |
| 312 | Intraoperative Functional Ultrasound Imaging of Human Brain Activity. <i>Scientific Reports</i> , 2017 , 7, 7304 | 4.9 | 44 |
| 311 | 3D Imaging with a Time Reversal Cavity: Towards Transcostal Focusing for Shock Wave Therapy. <i>Irbm</i> , 2017 , 38, 234-237 | 4.8 | 3 |
| 310 | 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 |
| 309 | Transcranial ultrasonic stimulation modulates single-neuron discharge in macaques performing an antisaccade task. <i>Brain Stimulation</i> , 2017 , 10, 1024-1031 | 5.1 | 76 |
| 308 | [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. <i>Journal of Hypertension</i> , 2017 , 35, e305 | 1.9 | |

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|-----|---|------|----|
| 307 | 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 |
| 306 | 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 |
| 305 | 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 |
| 304 | Lumbar annulus fibrosus biomechanical characterization in healthy children by ultrasound shear wave elastography. <i>European Radiology</i> , 2016 , 26, 1213-7 | 8 | 19 |
| 303 | Ultrafast acousto-optic imaging with ultrasonic plane waves. <i>Optics Express</i> , 2016 , 24, 3774-89 | 3.3 | 13 |
| 302 | Ultrasensitive Doppler based neuronavigation system for preclinical brain imaging applications 2016 , | | 3 |
| 301 | Functional ultrasound imaging of the human brain activity: An intraoperative pilot study for cortical functional mapping 2016 , | | 3 |
| 300 | 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 |
| 299 | 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 |
| 298 | 4D microvascular imaging based on ultrafast Doppler tomography. <i>NeuroImage</i> , 2016 , 127, 472-483 | 7.9 | 70 |
| 297 | Transcranial functional ultrasound imaging of the brain using microbubble-enhanced ultrasensitive Doppler. <i>NeuroImage</i> , 2016 , 124, 752-761 | 7.9 | 64 |
| 296 | 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 |
| 295 | 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 |
| 294 | 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 |
| 293 | 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 |
| 292 | 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 |
| 291 | MR-Guided Transcranial Focused Ultrasound. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 880, 97-111 | 3.6 | 24 |
| 290 | Functional Ultrasound Imaging of the thalamo-cortical auditory tract in awake ferrets using ultrafast Doppler imaging 2016 , | | 1 |

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| 289 | Subwavelength far-field ultrasound drug-delivery. <i>Applied Physics Letters</i> , 2016 , 109, 194102 | 3.4 | 8 |
| 288 | In-vivo 4D Ultrafast vector flow imaging: Quantitative assessment of arterial blood flow 2016 , | | 3 |
| 287 | 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 |
| 286 | Shear Wave Imaging of Passive Diastolic Myocardial Stiffness: Stunned Versus Infarcted Myocardium. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1023-1030 | 8.4 | 37 |
| 285 | Transcriptomic regulations in oligodendroglial and microglial cells related to brain damage following fetal growth restriction. <i>Glia</i> , 2016 , 64, 2306-2320 | 9 | 41 |
| 284 | Ultrasound-based imaging methods of the kidney-recent developments. <i>Kidney International</i> , 2016 , 90, 1199-1210 | 9.9 | 46 |
| 283 | Pulsed cavitation ultrasound for non-invasive chordal cutting guided by real-time 3D echocardiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2016 , 17, 1101-7 | 4.1 | 5 |
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| 2 | Functional ultrasound imaging of deep visual cortex in awake non-human primates | | 1 |

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| 1 | The Supplementary Eye Field Tracks Cognitive Efforts | 1 |
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