List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Pre-beamformed RF signal reconstruction in medical ultrasound using compressive sensing. Ultrasonics, 2013, 53, 525-533. | 2.1 | 109 |
| 2 | Design of Optimal 2-D Nongrid Sparse Arrays for Medical Ultrasound. IEEE Transactions on Biomedical Engineering, 2013, 60, 3093-3102. | 2.5 | 92 |
| 3 | A Virtual Imaging Platform for Multi-Modality Medical Image Simulation. IEEE Transactions on Medical Imaging, 2013, 32, 110-118. | 5.4 | 92 |
| 4 | High-Quality Plane Wave Compounding Using Convolutional Neural Networks. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1637-1639. | 1.7 | 87 |
| 5 | Model Fitting Using RANSAC for Surgical Tool Localization in 3-D Ultrasound Images. IEEE Transactions on Biomedical Engineering, 2010, 57, 1907-1916. | 2.5 | 84 |
| 6 | Myocardial Motion Estimation From Medical Images Using the Monogenic Signal. IEEE Transactions on Image Processing, 2013, 22, 1084-1095. | 6.0 | 72 |
| 7 | Comparison of Carotid Artery Blood Velocity Measurements by Vector and Standard Doppler Approaches. Ultrasound in Medicine and Biology, 2015, 41, 1354-1362. | 0.7 | 70 |
| 8 | Experimental 3-D Ultrasound Imaging with 2-D Sparse Arrays using Focused and Diverging Waves. Scientific Reports, 2018, 8, 9108. | 1.6 | 68 |
| 9 | Compressed Sensing Reconstruction of 3D Ultrasound Data Using Dictionary Learning and Line-Wise Subsampling. IEEE Transactions on Medical Imaging, 2015, 34, 2467-2477. | 5.4 | 66 |
| 10 | Evaluation and comparison of current biopsy needle localization and tracking methods using 3D ultrasound. Ultrasonics, 2017, 73, 206-220. | 2.1 | 64 |
| 11 | 2-D arterial wall motion imaging using ultrafast ultrasound and transverse oscillations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1047-1058. | 1.7 | 63 |
| 12 | 2-D Ultrasound Sparse Arrays Multidepth Radiation Optimization Using Simulated Annealing and Spiral-Array Inspired Energy Functions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2138-2149. | 1.7 | 62 |
| 13 | 3D Strain Assessment in Ultrasound (Straus): A Synthetic Comparison of Five Tracking Methodologies. IEEE Transactions on Medical Imaging, 2013, 32, 1632-1646. | 5.4 | 54 |
| 14 | Fast Volumetric Ultrasound B-Mode and Doppler Imaging with a New High-Channels Density Platform for Advanced 4D Cardiac Imaging/Therapy. Applied Sciences (Switzerland), 2018, 8, 200. | 1.3 | 54 |
| 15 | Automatic Needle Detection and Tracking in 3D Ultrasound Using an ROI-Based RANSAC and Kalman Method. Ultrasonic Imaging, 2013, 35, 283-306. | 1.4 | 52 |
| 16 | High-frame-rate 2-D vector blood flow imaging in the frequency domain. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1504-1514. | 1.7 | 51 |
| 17 | Plane-wave transverse oscillation for high-frame-rate 2-D vector flow imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2126-2137. | 1.7 | 51 |
| 18 | Parallel integral projection transform for straight electrode localization in 3-D ultrasound images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1559-1569. | 1.7 | 50 |

| # | Article | IF | CITATIONS |
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| 19 | High-Frame-Rate Speckle-Tracking Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 720-728. | 1.7 | 49 |
| 20 | Transverse oscillations for tissue motion estimation. Ultrasonics, 2010, 50, 548-555. | 2.1 | 47 |
| 21 | Phase-based block matching applied to motion estimation with unconventional beamforming strategies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 945-957. | 1.7 | 46 |
| 22 | Beamforming Scheme for 2D Displacement Estimation in Ultrasound Imaging. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1. | 1.0 | 44 |
| 23 | Compressive sensing in medical ultrasound. , 2012, , . | | 43 |
| 24 | A method for vector displacement estimation with ultrasound imaging and its application for thyroid nodular disease. Medical Image Analysis, 2008, 12, 259-274. | 7.0 | 41 |
| 25 | PSF dedicated to estimation of displacement vectors for tissue elasticity imaging with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 746-756. | 1.7 | 40 |
| 26 | Wideband 2-D Array Design Optimization With Fabrication Constraints for 3-D US Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 108-125. | 1.7 | 39 |
| 27 | Investigation of PVA cryogel Young's modulus stability with time, controlled by a simple reliable technique. Medical Physics, 2009, 36, 656-661. | 1.6 | 37 |
| 28 | Line filtering for surgical tool localization in 3D ultrasound images. Computers in Biology and Medicine, 2013, 43, 2036-2045. | 3.9 | 35 |
| 29 | Extension of Fourier-Based Techniques for Ultrafast Imaging in Ultrasound With Diverging Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2125-2137. | 1.7 | 35 |
| 30 | A Sparse Reconstruction Framework for Fourier-Based Plane-Wave Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2092-2106. | 1.7 | 32 |
| 31 | A New Technique for the Estimation of Cardiac Motion in Echocardiography Based on Transverse Oscillations: A Preliminary Evaluation In Silico and a Feasibility Demonstration In Vivo. IEEE Transactions on Medical Imaging, 2014, 33, 1148-1162. | 5.4 | 30 |
| 32 | Motion Estimation in Echocardiography Using Sparse Representation and Dictionary Learning. IEEE Transactions on Image Processing, 2018, 27, 64-77. | 6.0 | 30 |
| 33 | Impact of probe pressure variability on prostate localization for ultrasound-based image-guided radiotherapy. Radiotherapy and Oncology, 2014, 111, 132-137. | 0.3 | 27 |
| 34 | Analytic Estimation of Subsample Spatial Shift Using the Phases of Multidimensional Analytic Signals. IEEE Transactions on Image Processing, 2009, 18, 440-447. | 6.0 | 26 |
| 35 | Full 3-D transverse oscillations: a method for tissue motion estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1473-1485. | 1.7 | 24 |
| 36 | Aorta calcification burden: Towards an integrative predictor of cardiac outcome after transcatheter aortic valve implantation. Atherosclerosis, 2016, 246, 161-168. | 0.4 | 21 |

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| 37 | Simulation of realistic echocardiographic sequences for ground-truth validation of motion estimation. , 2012, , . | | 20 |
| 38 | Compressed Sensing Doppler Ultrasound Reconstruction Using Block Sparse Bayesian Learning. IEEE Transactions on Medical Imaging, 2016, 35, 978-987. | 5.4 | 20 |
| 39 | The UltraSound ToolBox. , 2017, , . | | 20 |
| 40 | Lateral RF image synthesis using a synthetic aperture imaging technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2097-2103. | 1.7 | 18 |
| 41 | Estimation methods for flow imaging with high frequency ultrasound. Ultrasonics, 2006, 44, e135-e140. | 2.1 | 17 |
| 42 | Multi-resolution transverse oscillation in ultrasound imaging for motion estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1333-1342. | 1.7 | 17 |
| 43 | Experimental evaluation of spectral-based quantitative ultrasound imaging using plane wave compounding. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1824-1834. | 1.7 | 17 |
| 44 | Blood Velocity Estimation Using Compressive Sensing. IEEE Transactions on Medical Imaging, 2013, 32, 1979-1988. | 5.4 | 16 |
| 45 | Biopsy Needle Localization and Tracking Using ROI-RK Method. Abstract and Applied Analysis, 2014, 2014, 1-7. | 0.3 | 15 |
| 46 | Medical ultrasound image reconstruction using distributed compressive sampling. , 2013, , . | | 14 |
| 47 | Ultrasound Fourier slice imaging: a novel approach for ultrafast imaging technique. , 2014, , . | | 14 |
| 48 | Comparison of the existing tool localisation methods on twoâ€dimensional ultrasound images and their tracking results. IET Control Theory and Applications, 2015, 9, 1124-1134. | 1.2 | 14 |
| 49 | Plane wave transverse oscillation (PWTO): An ultra-fast transverse oscillation imaging mode performed in the Fourier domain for 2D motion estimation of the carotid artery. , 2014, , . | | 13 |
| 50 | Video Magnification Applied in Ultrasound. IEEE Transactions on Biomedical Engineering, 2019, 66, 283-288. | 2.5 | 13 |
| 51 | Parametric Deformable Block Matching for Ultrasound Imaging. , 2007, , . | | 12 |
| 52 | Tangential oscillations for motion estimation in echocardiography. , 2008, , . | | 12 |
| 53 | Realâ€ŧime ultrasoundâ€ŧagging to track the 2D motion of the common carotid artery wall <i>in vivo</i> . Medical Physics, 2015, 42, 820-830. | 1.6 | 12 |
| 54 | An alternative method to classical beamforming for transverse oscillation images: Application to elastography. , 2013, , . | | 11 |

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| 55 | OntoVIP: An ontology for the annotation of object models used for medical image simulation. Journal of Biomedical Informatics, 2014, 52, 279-292. | 2.5 | 11 |
| 56 | Multiscale optical flow computation from the monogenic signal. Irbm, 2013, 34, 33-37. | 3.7 | 10 |
| 57 | Semiautomatic registration of 3D transabdominal ultrasound images for patient repositioning during postprostatectomy radiotherapy. Medical Physics, 2014, 41, 122903. | 1.6 | 10 |
| 58 | Real-Time 3-D Spectral Doppler Analysis With a Sparse Spiral Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1742-1751. | 1.7 | 10 |
| 59 | Estimation of Time-Scaling Factor for Ultrasound Medical Images Using the Hilbert Transform. Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1. | 1.0 | 9 |
| 60 | Translation of Simultaneous Vessel Wall Motion and Vectorial Blood Flow Imaging in Healthy and Diseased Carotids to the Clinic: A Pilot Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 558-569. | 1.7 | 9 |
| 61 | Two-dimensional least-squares estimation for motion tracking in ultrasound elastography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2155-8. | 0.5 | 8 |
| 62 | Sparse Convolutional Beamforming for 3-D Ultrafast Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2444-2459. | 1.7 | 8 |
| 63 | Direct estimation of the lateral strain field using a double oscillating point spread function with a scaling factor estimator. , 2004, , . | | 7 |
| 64 | Real time US-tagging combined with phase-based optical flow applied to 2D motion estimation of the carotid artery wall. , 2012, , . | | 7 |
| 65 | Multi-resolution parallel integral projection for fast localization of a straight electrode in 3D ultrasound images. , 2008, , . | | 6 |
| 66 | Multi-modality medical image simulation of biological models with the Virtual Imaging Platform (VIP). , 2011, , . | | 6 |
| 67 | Compressive sensing ultrasound imaging using overcomplete dictionaries. , 2013, , . | | 6 |
| 68 | Frequency-domain high frame-rate 2D vector flow imaging. , 2013, , . | | 6 |
| 69 | Speed-up of acoustic simulation techniques for 2D sparse array optimization by simulated annealing. , 2015, , . | | 6 |
| 70 | High-frame-rate 3-D echocardiography based on motion compensation: An in vitro evaluation. , 2017, , . | | 6 |
| 71 | 3D+t Vector Flow Imaging with Transverse Oscillations and Doppler Estimator. , 2019, , . | | 6 |
| 72 | Spectral Doppler Measurements With 2-D Sparse Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 278-285. | 1.7 | 6 |

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| 73 | P4B-2 Beamforming Techniques for Motion Estimation in Ultrasound Elastography. Proceedings IEEE Ultrasonics Symposium, 2007, , . | 0.0 | 5 |
| 74 | Transverse oscillations for tissue motion estimation. Physics Procedia, 2010, 3, 235-244. | 1.2 | 5 |
| 75 | 2D matrix array optimization by simulated annealing for 3D hepatic imaging. , 2011, , . | | 5 |
| 76 | Sharing object models for multi-modality medical image simulation: A semantic approach. , 2011, , . | | 5 |
| 77 | Cardiac motion assessment from echocardiographic image sequences by means of the structure multivector. , 2013, , . | | 5 |
| 78 | Variable-size elements in 2D sparse arrays for 3D medical ultrasound. , 2013, , . | | 5 |
| 79 | A new method for 2D-vector blood flow imaging based on unconventional beamforming techniques. , 2014, , . | | 5 |
| 80 | SA-VFI: the IEEE IUS Challenge on Synthetic Aperture Vector Flow Imaging. , 2018, , . | | 5 |
| 81 | Investigation on 3D high frame rate imaging with motion compensation (MoCo). , 2019, , . | | 5 |
| 82 | Monogenic phase based myocardial motion analysis from cardiac ultrasound with transverse oscillations. , 2012, , . | | 4 |
| 83 | Multi-modality image simulation with the Virtual Imaging Platform: Illustration on cardiac echography and MRI. , 2012, , . | | 4 |
| 84 | Realistic acoustic simulation of 2-D probe elements in simulated annealing sparse array optimization. , 2014, , . | | 4 |
| 85 | Extension of Ultrasound Fourier Slice Imaging theory to sectorial acquisition. , 2015, , . | | 4 |
| 86 | Spatial and Temporal Adaptive FIR Clutter Filtering. , 2018, , . | | 4 |
| 87 | Simultaneous Tissue and Flow Estimation at High Frame Rate Using Plane Wave and Transverse Oscillation on in Vivo Carotid. , 2018, , . | | 4 |
| 88 | Static mechanical assessment of elastic Young's modulus of tissue mimicking materials used for medical imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3450-3. | 0.5 | 3 |
| 89 | Real-time specific beamforming applied to motion trajectory estimation in ultrasound imaging. , 2009, , | | 3 |
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90 Non-grid based elements positioning for optimal 2D array beams. , 2012, , .

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| 91 | OntoVIP: An Ontology for the Annotation of Object Models Used for Medical Image Simulation. , 2012, , \cdot | | 3 |
| 92 | Internal strain estimation for quantification of human heel pad elastic modulus: A phantom study. Ultrasonics, 2013, 53, 439-446. | 2.1 | 3 |
| 93 | A new automatically biopsy needle tracking method using 3D ultrasound. , 2013, , . | | 3 |
| 94 | Real time 3D US-tagging combined with 3D phasebased motion estimation. , 2013, , . | | 3 |
| 95 | Spiral array inspired multi-depth cost function for 2D sparse array optimization. , 2015, , . | | 3 |
| 96 | Novel strategies in 2D sparse arrays for 3D ultrasound imaging. Physica Medica, 2016, 32, 420-421. | 0.4 | 3 |
| 97 | Validation of optimal 2D sparse arrays in focused mode: Phantom experiments. , 2017, , . | | 3 |
| 98 | Feasibility of Genetic Algorithms in 2D Ultrasound Array Optimization. , 2018, , . | | 3 |
| 99 | Prognostic significance of vascular and valvular calcifications in low- and high-gradient aortic stenosis. European Heart Journal Cardiovascular Imaging, 2022, 23, 508-514. | 0.5 | 3 |
| 100 | Sequence optimization for high frame rate imaging with a convex array. , 2020, , . | | 3 |
| 101 | Errata for "Phase-based block matching applied to motion estimation with unconventional beamforming strategies" [May 09 945-957]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1289-1289. | 1.7 | 2 |
| 102 | Affine phase based motion estimation applied to echocardiography. , 2011, , . | | 2 |
| 103 | Blood velocity measurement in healthy and diseased carotid arteries by vector Doppler techniques. , 2014, , . | | 2 |
| 104 | Fast simulation of realistic pseudo-acoustic nonlinear radio-frequency ultrasound images. , 2014, , . | | 2 |
| 105 | Estimation of arterial wall motion using ultrafast imaging with transverse oscillations: Phantom study. , 2014, , . | | 2 |
| 106 | Cardiac Motion estimation based on transverse oscillation and ultrafast diverging wave imaging. , 2015, , . | | 2 |
| 107 | Back-Propagation Beamformer Design for Motion Estimation in Echocardiography. Ultrasonic Imaging, 2015, 37, 179-204. | 1.4 | 2 |
| 108 | Comparison of different optimized irregular sparse 2D ultrasound arrays. , 2016, , . | | 2 |

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| 109 | A new high channels density ultrasound platform for advanced 4D cardiac imaging. , 2017, , . | | 2 |
| 110 | 3D diverging waves with 2D sparse arrays: A feasibility study. , 2017, , . | | 2 |
| 111 | 3D diverging waves with 2D sparse arrays: A feasibility study. , 2017, , . | | 2 |
| 112 | Spectral Doppler Measurements with 2-D Sparse Arrays. , 2018, , . | | 2 |
| 113 | Optimization of virtual sources distribution in 3D echography. , 2019, , . | | 2 |
| 114 | Tapered Vector Doppler for Improved Quantification of Low Velocity Blood Flow. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1017-1031. | 1.7 | 2 |
| 115 | Young's modulus imaging based on axial and lateral strain estimation from ultrasound data using a clinical linear probe. , 2005, , . | | 1 |
| 116 | P5C-3 Field Simulation Parameters Design for Realistic Statistical Parameters of Radio - Frequency Ultrasound Images. Proceedings IEEE Ultrasonics Symposium, 2007, , . | 0.0 | 1 |
| 117 | Motion estimation using prebeamformed ultrasound signals. , 2010, , . | | 1 |
| 118 | Multi resolution transverse oscillations for motion estimation in ultrasound images. , 2012, , . | | 1 |
| 119 | Optimization of free-moving elements in 2D ultrasound sparse arrays. , 2014, , . | | 1 |
| 120 | Estimation of arterial wall motion using ultrafast imaging and transverse oscillations: in vivo study. , 2016, , . | | 1 |
| 121 | High-frame-rate velocity vector imaging echocardiography: an in vitro evaluation. , 2016, , . | | 1 |
| 122 | Local Orientation Imaging for Tissue Structure Using Ultrasound Imaging. Irbm, 2017, 38, 298-303. | 3.7 | 1 |
| 123 | Biofidelic Abdominal Aorta Phantom: Cross-Over Preliminary Study Using UltraSound and Digital Image Stereo-Correlation. Irbm, 2017, 38, 238-244. | 3.7 | 1 |
| 124 | Multi-line transmission for 3D ultrasound imaging: An experimental study. , 2017, , . | | 1 |
| 125 | Simultaneous pulse wave and flow estimation at high-framerate using plane wave and transverse oscillation on carotid phantom. , 2017, , . | | 1 |
| 126 | Inverse problem approaches for coded high frame rate ultrasound imaging. , 2017, , . | | 1 |

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| 127 | Towards 3-D tissue doppler ultrafast echocardiography: An in vitro study. , 2017, , . | | 1 |
| 128 | Simultaneous pulse wave and flow estimation at high-framerate using plane wave and transverse oscillation on carotid phantom. , 2017, , . | | 1 |
| 129 | Optimal Virtual Sources Distribution in 3-D Diverging Wave Ultrasound Imaging: An Experimental Study. , 2018, , . | | 1 |
| 130 | Vortex Ring Phantom for Investigation of Ultrasound Vector Flow Imaging. , 2018, , . | | 1 |
| 131 | High Frame Rate Vector Flow Imaging with a Convex Array in a simulated vessel phantom. , 2019, , . | | 1 |
| 132 | Full 3D anisotropic estimation of tissue in ultrasound imaging. , 2019, , . | | 1 |
| 133 | Towards high frame rate cardiac ultrasonography - a circular wave imaging approach. , 2013, , . | | 0 |
| 134 | Speckle decorrelation of motion in Ultrasound Fourier images. , 2014, , . | | 0 |
| 135 | Realistic Simulations for the Evaluation of Monomodal Registration Algorithms of 3D Pelvic Ultrasound Images. Physics Procedia, 2015, 70, 1169-1172. | 1.2 | 0 |
| 136 | Compressed sensing reconstruction of line-wise sub-sampled 3D echographic images based on dictionary learning: an experimental study. , 2015, , . | | 0 |
| 137 | Sub-sampled Doppler ultrasound reconstruction using block sparse Bayesian learning. , 2015, , . | | 0 |
| 138 | A measure of confidence for Phase-Based Motion Estimator applied to 2D US-TO images. , 2016, , . | | 0 |
| 139 | A Fourier-based formalism for 3D ultrafast imaging with diverging waves. , 2016, , . | | 0 |
| 140 | 3D ultrasound imaging of tissue anisotropy using spatial coherence: Comparison between plane and diverging waves. , 2017, , . | | 0 |
| 141 | Simultaneous coded plane wave imaging: Implementation on a research echograph. , 2017, , . | | 0 |
| 142 | Guest Editorial Special Issue on Sparsity Driven Methods in Medical Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 297-299. | 1.7 | 0 |
| 143 | Experimental Cross-Talk Reduction for 3D Multi Line Transmission. , 2018, , . | | 0 |
| 144 | Jointly Optimized Modulatiion/Filtering Technique for Pseudo-Orthogonal Binary Sequences. , 2018, , . | | 0 |

144 Jointly Optimized Modulatiion/Filtering Technique for Pseudo-Orthogonal Binary Sequences. , 2018, , .

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| 145 | Spectral Doppler analysis with sparse and full 2-D arrays. , 2019, , . | | 0 |