

Jürgen Arendt Jensen

List of Publications by Year in descending order

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458
papers

11,725
citations

61984

43
h-index

39675

94
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463
all docs

463
docs citations

463
times ranked

3722
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure Difference Estimation in Non-stenotic Carotid Bifurcation Phantoms Using Vector Flow Imaging. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 346-357.	1.5	2
2	Performance Assessment of Rowâ€“Column Transverse Oscillation Tensor Velocity Imaging Using Computational Fluid Dynamics Simulation of Carotid Bifurcation Flow. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1230-1242.	3.0	7
3	Ultrasound super-resolution imaging with a hierarchical Kalman tracker. <i>Ultrasonics</i> , 2022, 122, 106695.	3.9	18
4	Super-Resolution Ultrasound Imaging Can Quantify Alterations in Microbubble Velocities in the Renal Vasculature of Rats. <i>Diagnostics</i> , 2022, 12, 1111.	2.6	6
5	Anatomic and Functional Imaging Using Rowâ€“Column Arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 2722-2738.	3.0	21
6	Super-Resolution Ultrasound Imaging Provides Quantification of the Renal Cortical and Medullary Vasculature in Obese Zucker Rats: A Pilot Study. <i>Diagnostics</i> , 2022, 12, 1626.	2.6	5
7	Fast 3-D Velocity Estimation in 4-D Using a 62 + 62 Rowâ€“Column Addressed Array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 608-623.	3.0	12
8	Tensor Velocity Imaging With Motion Correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 1676-1686.	3.0	8
9	Common Carotid Artery Volume Flow: A Comparison Study between Ultrasound Vector Flow Imaging and Phase Contrast Magnetic Resonance Imaging. <i>Neurology International</i> , 2021, 13, 269-278.	2.8	7
10	3D printed calibration micro-phantoms for super-resolution ultrasound imaging validation. <i>Ultrasonics</i> , 2021, 114, 106353.	3.9	11
11	Real-Time Volumetric Synthetic Aperture Software Beamforming of Rowâ€“Column Probe Data. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2608-2618.	3.0	17
12	<i>In Vivo</i> Motion Correction in Super-Resolution Imaging of Rat Kidneys. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3082-3093.	3.0	24
13	Model-based Deep Learning on Ultrasound Channel Data for Fast Ultrasound Localization Microscopy. , 2021, , .		2
14	Automatic Classification of Arterial and Venous Flow in Super-resolution Ultrasound Images of Rat Kidneys. , 2021, , .		3
15	Non-invasive Intravascular Pressure Gradient Estimation using Synthetic Aperture Ultrasound. , 2021, , .		0
16	Transthoracic Vector Flow Imaging in Pediatric Patients with Valvular Stenosis â€“ A Proof of Concept Study. <i>Ultrasound International Open</i> , 2021, 07, E48-E54.	0.6	0
17	Evaluation of 2D super-resolution ultrasound imaging of the rat renal vasculature using ex vivo micro-computed tomography. <i>Scientific Reports</i> , 2021, 11, 24335.	3.3	11
18	Three-Dimensional Super-Resolution Imaging Using a Rowâ€“Column Array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 538-546.	3.0	44

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19	Vector Flow Imaging of the Ascending Aorta in Patients with Tricuspid and Bicuspid Aortic Valve Stenosis Treated with Biological and Mechanical Implants. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 64-72.	1.5	4
20	Flow Complexity Estimation in Dysfunctional Arteriovenous Dialysis Fistulas using Vector Flow Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 2493-2504.	1.5	4
21	Super-Resolution Imaging with Ultrasound for Visualization of the Renal Microvasculature in Rats Before and After Renal Ischemia: A Pilot Study. <i>Diagnostics</i> , 2020, 10, 862.	2.6	18
22	Carotid Stenosis Assessment with Vector Concentration before and after Stenting. <i>Diagnostics</i> , 2020, 10, 420.	2.6	6
23	Detection and Localization of Ultrasound Scatterers Using Convolutional Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3855-3867.	8.9	25
24	Real Time Synthetic Aperture and Plane Wave Ultrasound Imaging with the Xilinx VERSAL, SIMD-VLIW Architecture. , 2020, , .		2
25	3-D Synthetic Aperture High Volume Rate Tensor Velocity Imaging Using 1024 Element Matrix Probe. , 2020, , .		1
26	Super-resolution Ultrasound Imaging of the Renal Microvasculature in Rats with Metabolic syndrome. , 2020, , .		1
27	Improved microbubble (MB) Localisation Using Particle Detecting algorithm: Evaluation of Algorithm Performance for Different Beamforming Methods. , 2020, , .		0
28	Deep Learning Models for Fast Ultrasound Localization Microscopy. , 2020, , .		7
29	Tracking Performance in Ultrasound Super-Resolution Imaging. , 2020, , .		4
30	Tensor Velocity Imaging with Motion Correction. , 2020, , .		1
31	Investigating a CMUT's Ability to Achieve Non-linear Contrast Enhancement. , 2020, , .		0
32	Resolving Ultrasound Contrast Microbubbles Using Minimum Variance Beamforming. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 194-204.	8.9	23
33	A comparison between image and signal sharpness-based axial localization of ultrasound scatterers. , 2019, , .		0
34	Estimation of High Velocities in Synthetic-Aperture Imaging – Part I: Theory. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1024-1031.	3.0	26
35	Imaging Performance for Two Row – Column Arrays. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1209-1221.	3.0	31
36	CMUT Electrode Resistance Design: Modeling and Experimental Verification by a Row-Column Array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1110-1118.	3.0	13

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37	Vector Flow Imaging Compared with Digital Subtraction Angiography for Stenosis Assessment in the Superficial Femoral Artery – A Study of Vector Concentration, Velocity Ratio and Stenosis Degree Percentage. <i>Ultrasound International Open</i> , 2019, 05, E53-E59.	0.6	22
38	Estimation of High Velocities in Synthetic-Aperture Imaging – Part II: Experimental Investigation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 1032-1038.	3.0	15
39	Pressure Difference Estimation in Carotid Bulbs using Vector Flow Imaging - A Phantom Study. , 2019, , .		0
40	Fast GPU-beamforming of Row-Column Addressed Probe Data. , 2019, , .		1
41	Vector Concentration used for Stenosis Assessment in the Carotid Artery before and after Carotid Stenting. , 2019, , .		0
42	3-D Directional Transverse Oscillations Synthetic Aperture Vector Flow Imaging with a 1024 Element Matrix Probe. , 2019, , .		1
43	Validation Platform for Development of Computational Fluid Dynamics of Intra-Cardiac Blood-Flow. , 2019, , .		2
44	Wafer bonded CMUT technology utilizing a Poly-Silicon-on-Insulator wafer. , 2019, , .		6
45	Tissue Motion Estimation and Correction in Super Resolution Imaging. , 2019, , .		8
46	Ultrasound Multiple Point Target Detection and Localization using Deep Learning. , 2019, , .		7
47	Super-Resolution Ultrasound Imaging of Rat Kidneys before and after Ischemia-Reperfusion. , 2019, , .		13
48	History and Latest Advances in Flow Estimation Technology: From 1-D in 2-D to 3-D in 4-D. , 2019, , .		5
49	Minimum Variance beamforming for closely spaced microbubbles. , 2019, , .		1
50	Do raw signal data provide better localisation than image data for super-resolution imaging?. , 2019, , .		0
51	188+188 Row – Column Addressed CMUT Transducer for Super Resolution Imaging. , 2019, , .		3
52	Full Volumetric 3-D Vector Flow Imaging using a 62+62 Row-Column Array. , 2019, , .		2
53	3D Printed Calibration Micro-phantoms for Validation of Super-Resolution Ultrasound Imaging. , 2019, , .		2
54	3-D Super Resolution Imaging using a 62+62 Elements Row-Column Array. , 2019, , .		4

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55	Development of Super-Resolution Sharpness-Based Axial Localization for Ultrasound Imaging. IEEE Access, 2019, 7, 6297-6309.	4.2	2
56	Pediatric Transthoracic Cardiac Vector Flow Imaging – A Preliminary Pictorial Study. Ultrasound International Open, 2019, 05, E20-E26.	0.6	14
57	Non-Invasive Assessment of Intravascular Pressure Gradients: A Review of Current and Proposed Novel Methods. Diagnostics, 2019, 9, 5.	2.6	9
58	Portable Vector Flow Imaging Compared With Spectral Doppler Ultrasonography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 453-462.	3.0	2
59	Automatic Detection of B-Lines in $\text{\<inline-formula\>\<tex-math notation=\"LaTeX\"\$In Vivo\</tex-math\>\</inline-formula\>}$ Lung Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 309-317.	3.0	32
60	Row-column beamforming with dynamic apodizations on a GPU. , 2019, , .		13
61	Probe development of CMUT and PZT row–column-addressed 2-D arrays. Sensors and Actuators A: Physical, 2018, 273, 121-133.	4.1	25
62	Noninvasive Estimation of Pressure Changes Using 2-D Vector Velocity Ultrasound: An Experimental Study With <i>In Vivo</i> Examples. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 709-719.	3.0	23
63	Super-Resolution Axial Localization of Ultrasound Scatter Using Multi-Focal Imaging. IEEE Transactions on Biomedical Engineering, 2018, 65, 1840-1851.	4.2	20
64	Accuracy and Precision of a Plane Wave Vector Flow Imaging Method in the Healthy Carotid Artery. Ultrasound in Medicine and Biology, 2018, 44, 1727-1741.	1.5	13
65	Increasing the field-of-view of row–column-addressed ultrasound transducers: implementation of a diverging compound lens. Ultrasonics, 2018, 88, 97-105.	3.9	15
66	Vector Flow Imaging Compared with Pulse Wave Doppler for Estimation of Peak Velocity in the Portal Vein. Ultrasound in Medicine and Biology, 2018, 44, 593-601.	1.5	14
67	Volumetric Color Flow Map Using Row Column Transducer Array-Simulation Study. , 2018, , .		0
68	3D Printed Flow Phantoms with Fiducial Markers for Super-Resolution Ultrasound Imaging. , 2018, , .		9
69	Flow Changes After Biological and Mechanical Aortic Valve Implantation Measured with VFI. , 2018, , .		0
70	Characterization of Medical Ultrasound Transducers. , 2018, , .		5
71	A Row-Column-Addressed 2D Probe with an Integrated Compound Diverging Lens. , 2018, , .		6
72	SA-VFI: the IEEE IUS Challenge on Synthetic Aperture Vector Flow Imaging. , 2018, , .		5

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73	Design of a Novel Zig-Zag 192+192 Row Column Addressed Array Transducer: A Simulation Study. , 2018, , ,		3
74	Spatiotemporal Filtering for Synthetic Aperture Slow Flow Imaging. , 2018, , .		3
75	Evaluation of Peak Reflux Velocities with Vector Flow Imaging and Spectral Doppler Ultrasound in Varicose Veins. <i>Ultrasound International Open</i> , 2018, 04, E91-E98.	0.6	5
76	Atherosclerotic Lesions in the Superficial Femoral Artery (SFA) Characterized with Velocity Ratios using Vector Velocity Ultrasound. <i>Ultrasound International Open</i> , 2018, 04, E79-E84.	0.6	1
77	Curvilinear 3-D Imaging Using Row-Column-Addressed 2-D Arrays With a Diverging Lens: Phantom Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1182-1192.	3.0	13
78	Real-Time 2-D Phased Array Vector Flow Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1205-1213.	3.0	4
79	A Comparison Study of Vector Velocity, Spectral Doppler and Magnetic Resonance of Blood Flow in the Common Carotid Artery. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 1751-1761.	1.5	25
80	Ultrasound Open Platforms for Next-Generation Imaging Technique Development. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1078-1092.	3.0	104
81	Respiratory variability of peak velocities in the common femoral vein estimated with vector flow imaging and Doppler ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 1941-1950.	1.5	3
82	Vector Flow Imaging Compared with Conventional Doppler Ultrasound and Thermodilution for Estimation of Blood Flow in the Ascending Aorta. <i>Ultrasonic Imaging</i> , 2017, 39, 3-18.	2.6	20
83	Ultrasonic 3-D Vector Flow Method for Quantitative <i>In Vivo</i> Peak Velocity and Flow Rate Estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 544-554.	3.0	35
84	Fast Plane Wave 2-D Vector Flow Imaging Using Transverse Oscillation and Directional Beamforming. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1050-1062.	3.0	33
85	Automatic segmentation of vessels in in-vivo ultrasound scans. <i>Proceedings of SPIE</i> , 2017, , .	0.8	4
86	Aortic Valve Stenosis Increases Helical Flow and Flow Complexity: A Study of Intra-Operative Cardiac Vector Flow Imaging. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1607-1617.	1.5	38
87	Velocity Estimation in Medical Ultrasound [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2017, 34, 94-100.	5.6	1
88	Experimental performance assessment of the sub-band minimum variance beamformer for ultrasound imaging. <i>Ultrasonics</i> , 2017, 79, 87-95.	3.9	34
89	Vector velocity estimation of blood flow – A new application in medical ultrasound. <i>Ultrasound</i> , 2017, 25, 189-199.	0.7	23
90	Directional Transverse Oscillation Vector Flow Estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1194-1204.	3.0	24

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91	Curvilinear 3-D Imaging Using Row-Column-Addressed 2-D Arrays With a Diverging Lens: Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 978-988.	3.0	27
92	A Methodology for Anatomic Ultrasound Image Diagnostic Quality Assessment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 206-217.	3.0	6
93	Vector and Doppler Ultrasound Velocities Evaluated in a Flow Phantom and the Femoropopliteal Vein. Ultrasound in Medicine and Biology, 2017, 43, 2477-2487.	1.5	6
94	Common Carotid Artery Flow Measured by 3-D Ultrasonic Vector Flow Imaging and Validated with Magnetic Resonance Imaging. Ultrasound in Medicine and Biology, 2017, 43, 2213-2220.	1.5	31
95	Accuracy and precision of plane wave vector flow imaging for laminar and complex flow in vivo. , 2017, , .		1
96	A Vector Flow Imaging Method for Portable Ultrasound Using Synthetic Aperture Sequential Beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1655-1665.	3.0	17
97	Output pressure and pulse-echo characteristics of CMUTs as function of plate dimensions. , 2017, , .		3
98	Simulating CMUT arrays using time domain FEA. , 2017, , .		0
99	Volumetric 3-D vector flow measurements using a 62+62 row-column addressed array. , 2017, , .		0
100	Accuracy and precision study of plane wave vector flow imaging for laminar and complex flow in vivo. , 2017, , .		0
101	3-D imaging using row-column addressed 2-D arrays with a diverging lens: Phantom study. , 2017, , .		0
102	High-frame-rate imaging of a carotid bifurcation using a low-complexity velocity estimation approach. , 2017, , .		0
103	Volumetric 3-D vector flow measurements using a 62+62 row-column addressed array. , 2017, , .		0
104	Real-time implementation of synthetic aperture vector flow imaging on a consumer-level tablet. , 2017, , .		1
105	3-D imaging using row-column-addressed 2-D arrays with a diverging lens: Phantom study. , 2017, , .		0
106	Energy based clutter filtering for vector flow imaging. , 2017, , .		3
107	Synthetic aperture sequential beamforming using spatial matched filtering. , 2017, , .		0
108	Improved focusing method for 3-D imaging using row-column-addressed 2-D arrays. , 2017, , .		0

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109	BCB polymer based row-column addressed CMUT. , 2017, , .		4
110	Experimental 3-D vector velocity estimation with row-column addressed arrays. , 2016, , .		0
111	Volumetric synthetic aperture imaging with a piezoelectric 2D row-column probe. Proceedings of SPIE, 2016, , .	0.8	2
112	Optimization of synthetic aperture image quality. Proceedings of SPIE, 2016, , .	0.8	2
113	Novel automatic detection of pleura and B-lines (comet-tail artifacts) on in vivo lung ultrasound scans. Proceedings of SPIE, 2016, , .	0.8	4
114	Elimination of second-harmonics in CMUTs using square pulse excitation. , 2016, , .		5
115	In vivo high frame rate vector flow imaging using plane waves and directional beamforming. , 2016, , .		3
116	3-D imaging using row-column-addressed 2-D arrays with a diverging lens. , 2016, , .		2
117	Robust microbubble tracking for super resolution imaging in ultrasound. , 2016, , .		19
118	Analysis of Systolic Backflow and Secondary Helical Blood Flow in the Ascending Aorta Using Vector Flow Imaging. Ultrasound in Medicine and Biology, 2016, 42, 899-908.	1.5	25
119	Accurate Angle Estimator for High-Frame-Rate 2-D Vector Flow Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 842-853.	3.0	32
120	Analog gradient beamformer for a wireless ultrasound scanner. Proceedings of SPIE, 2016, , .	0.8	0
121	Vector velocity volume flow estimation: Sources of error and corrections applied for arteriovenous fistulas. Ultrasonics, 2016, 70, 136-146.	3.9	20
122	Synthetic Aperture Ultrasound Fourier Beamformation Using Virtual Sources. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2018-2030.	3.0	34
123	Optimized Plane Wave Imaging for Fast and High-Quality Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1922-1934.	3.0	53
124	System-Level Design of an Integrated Receiver Front End for a Wireless Ultrasound Probe. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1935-1946.	3.0	22
125	Intra-Operative Vector Flow Imaging Using Ultrasound of the Ascending Aorta among 40 Patients with Normal, Stenotic and Replaced Aortic Valves. Ultrasound in Medicine and Biology, 2016, 42, 2414-2422.	1.5	32
126	Ultrasound Vector Flow Imaging – Part II: Parallel Systems. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1722-1732.	3.0	81

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127	Ultrasound Vector Flow Imaging: I: Sequential Systems. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1-1.	3.0	96
128	Blood flow velocity in the popliteal vein using transverse oscillation ultrasound. , 2016, , .		0
129	High frame rate synthetic aperture 3D vector flow imaging. , 2016, , .		5
130	Hybrid segmentation of vessels and automated flow measures in in-vivo ultrasound imaging. , 2016, , .		4
131	Quantitative measurements using ultrasound Vector Flow Imaging. , 2016, , .		0
132	Vector velocity estimation for portable ultrasound using directional transverse oscillation and synthetic aperture sequential beamforming. , 2016, , .		3
133	3-D Vector Flow Estimation With Row-Column-Addressed Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1799-1814.	3.0	43
134	Capacitive substrate coupling of row-column-addressed 2-D CMUT arrays. , 2016, , .		11
135	3D vector flow using a row-column addressed CMUT array. Proceedings of SPIE, 2016, , .	0.8	3
136	Preliminary investigation of an ultrasound method for estimating pressure changes in deep-positioned vessels. , 2016, , .		0
137	Evaluation of healthy muscle tissue by strain and shear wave elastography - Dependency on depth and ROI position in relation to underlying bone. Ultrasonics, 2016, 71, 127-133.	3.9	69
138	A framework for simulating ultrasound imaging based on first order nonlinear pressure-velocity relations. Ultrasonics, 2016, 69, 152-165.	3.9	5
139	High frame rate synthetic aperture vector flow imaging for transthoracic echocardiography. , 2016, , .		3
140	Safety Assessment of Advanced Imaging Sequences I: Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 110-119.	3.0	24
141	Safety Assessment of Advanced Imaging Sequences II: Simulations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 120-127.	3.0	15
142	Assessment of Flatness of Assumed Planar Surfaces for Ultrasound Investigation of Elastic Surfaces. Physics Procedia, 2015, 70, 1233-1236.	1.2	0
143	Vector flow imaging of the ascending aorta. , 2015, , .		0
144	High resolution depth-resolved imaging from multi-focal images for medical ultrasound. , 2015, 2015, 7067-70.		2

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145	In vivo 3-D vector velocity estimation with continuous data. , 2015, , .		7
146	Advanced automated gain adjustments for in-vivo ultrasound imaging. , 2015, , .		0
147	In-vivo high dynamic range vector flow imaging. , 2015, , .		2
148	Volumetric ultrasound imaging with row-column addressed 2-D arrays using Spatial Matched Filter beamforming. , 2015, , .		4
149	Velocity estimation of the main portal vein with Transverse Oscillation. , 2015, , .		4
150	Image quality degradation from transmit delay profile quantization. , 2015, , .		1
151	3-D imaging using row-column-addressed arrays with integrated apodization” part ii: transducer fabrication and experimental results. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 959-971.	3.0	96
152	Non-invasive estimation of pressure changes along a streamline using vector velocity ultrasound. , 2015, , .		0
153	Synthetic aperture imaging using a semi-analytic model for the transmit beams. , 2015, , .		0
154	Output pressure and harmonic characteristics of a CMUT as function of bias and excitation voltage. , 2015, , .		4
155	Improved vector velocity estimation using Directional Transverse Oscillation. , 2015, , .		6
156	Increased frame rate for plane wave imaging without loss of image quality. , 2015, , .		3
157	Surveillance of hemodialysis vascular access with ultrasound vector flow imaging. , 2015, , .		0
158	Implementation of real-time duplex synthetic aperture ultrasonography. , 2015, , .		10
159	A hand-held row-column addressed CMUT probe with integrated electronics for volumetric imaging. , 2015, , .		17
160	3-D vector velocity estimation with row-column addressed arrays. , 2015, , .		4
161	Transverse oscillation vector flow imaging for transthoracic echocardiography. , 2015, , .		1
162	Automated hierarchical time gain compensation for in-vivo ultrasound imaging. Proceedings of SPIE, 2015, , .	0.8	2

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163	<i>In vivo</i> real-time volumetric synthetic aperture ultrasound imaging. Proceedings of SPIE, 2015, , .	0.8	1
164	High frame rate vector velocity estimation using plane waves and transverse oscillation. , 2015, , .		7
165	Convex array vector velocity imaging using transverse oscillation and its optimization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2043-2053.	3.0	20
166	Fourier beamformation of multistatic synthetic aperture ultrasound imaging. , 2015, , .		4
167	Reply. Arthritis and Rheumatology, 2015, 67, 1681-1683.	5.6	0
168	Clinical Evaluation of Synthetic Aperture Harmonic Imaging for Scanning Focal Malignant Liver Lesions. Ultrasound in Medicine and Biology, 2015, 41, 2368-2375.	1.5	4
169	Acoustical cross-talk in row-column addressed 2-D transducer arrays for ultrasound imaging. Ultrasonics, 2015, 63, 174-178.	3.9	7
170	Electrostatic and small-signal analysis of CMUTs with circular and square anisotropic plates. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1563-1579.	3.0	27
171	3-D imaging using row-column-addressed arrays with integrated apodization - part i: apodization design and line element beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 947-958.	3.0	105
172	First report on intraoperative vector flow imaging of the heart among patients with healthy and diseased aortic valves. Ultrasonics, 2015, 56, 243-250.	3.9	29
173	A transverse oscillation approach for estimation of three-dimensional velocity vectors, Part I: concept and simulation study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1599-1607.	3.0	34
174	In-vivo convex array vector flow imaging. , 2014, , .		5
175	3-D velocity estimation for two planes in vivo. , 2014, , .		4
176	Performance evaluation of compounding and directional beamforming techniques for carotid strain imaging using plane wave transmissions. , 2014, , .		1
177	Adaptive multi-lag for synthetic aperture vector flow imaging. , 2014, , .		4
178	Determining inter-fractional motion of the uterus using 3D ultrasound imaging during radiotherapy for cervical cancer. Proceedings of SPIE, 2014, , .	0.8	3
179	A transverse oscillation approach for estimation of three-dimensional velocity vectors, Part II: experimental validation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1608-1618.	3.0	36
180	Comparison of 3-D synthetic aperture phased-array ultrasound imaging and parallel beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1638-1650.	3.0	26

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181	Real-time GPU implementation of transverse oscillation vector velocity flow imaging. Proceedings of SPIE, 2014, , .	0.8	3
182	Increasing the dynamic range of synthetic aperture vector flow imaging. Proceedings of SPIE, 2014, , .	0.8	2
183	Rapid measurements of intensities for safety assessment of advanced imaging sequences. , 2014, , .		3
184	Comparison of vector velocity imaging using directional beamforming and transverse oscillation for a convex array transducer. Proceedings of SPIE, 2014, , .	0.8	6
185	Simulation study of real time 3-D synthetic aperture sequential beamforming for ultrasound imaging. , 2014, , .		1
186	In-vivo synthetic aperture and plane wave high frame rate cardiac imaging. , 2014, , .		3
187	A multi-threaded version of Field II. , 2014, , .		37
188	Implementation of synthetic aperture imaging on a hand-held device. , 2014, , .		16
189	Data adaptive estimation of transversal blood flow velocities. , 2014, , .		1
190	Synthetic Aperture Sequential Beamforming implemented on multi-core platforms. , 2014, , .		8
191	Non-invasive estimation of pressure gradients in pulsatile flow using ultrasound. , 2014, , .		1
192	Row-column addressed 2-D CMUT arrays with integrated apodization. , 2014, , .		8
193	Investigation of PDMS as coating on CMUTs for imaging. , 2014, , .		12
194	2-D tissue motion compensation of synthetic transmit aperture images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 594-610.	3.0	44
195	Clinical Evaluation of Synthetic Aperture Sequential Beamforming Ultrasound in Patients with Liver Tumors. Ultrasound in Medicine and Biology, 2014, 40, 2805-2810.	1.5	11
196	Simulation and efficient measurements of intensities for complex imaging sequences. , 2014, , .		2
197	Dimensional scaling for optimized CMUT operations. , 2014, , .		1
198	A phantom study on temporal and subband Minimum Variance adaptive beamforming. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
199	Ultrasound evaluation of an abdominal aortic fluid-structure interaction model. , 2014, , .		1
200	A comparison between temporal and subband minimum variance adaptive beamforming. Proceedings of SPIE, 2014, , .	0.8	10
201	Modal radiation patterns of baffled circular plates and membranes. Journal of the Acoustical Society of America, 2014, 135, 2523-2533.	1.1	6
202	Thermal Oxidation of Structured Silicon Dioxide. ECS Journal of Solid State Science and Technology, 2014, 3, N63-N68.	1.8	4
203	Clinical evaluation of Synthetic Aperture Sequential Beamforming and Tissue Harmonic Imaging. , 2014, , .		0
204	Accuracy and sources of error for an angle independent volume flow estimator. , 2014, , .		5
205	Tissue harmonic synthetic aperture ultrasound imaging. Journal of the Acoustical Society of America, 2014, 136, 2050-2056.	1.1	21
206	Novel Flow Quantification of the Carotid Bulb and the Common Carotid Artery with Vector Flow Ultrasound. Ultrasound in Medicine and Biology, 2014, 40, 2700-2706.	1.5	44
207	Volume Flow in Arteriovenous Fistulas Using Vector Velocity Ultrasound. Ultrasound in Medicine and Biology, 2014, 40, 2707-2714.	1.5	40
208	Noninvasive estimation of 2-D pressure gradients in steady flow using ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1409-1418.	3.0	12
209	Investigation of an angular spectrum approach for pulsed ultrasound fields. Ultrasonics, 2013, 53, 1185-1191.	3.9	18
210	SARUS: A synthetic aperture real-time ultrasound system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1838-1852.	3.0	214
211	2-D row-column CMUT arrays with an open-grid support structure. , 2013, , .		3
212	High frame rate synthetic aperture duplex imaging. , 2013, , .		2
213	Vector volume flow in arteriovenous fistulas. , 2013, , .		1
214	Sequential beamforming for synthetic aperture imaging. Ultrasonics, 2013, 53, 1-16.	3.9	113
215	Internal strain estimation for quantification of human heel pad elastic modulus: A phantom study. Ultrasonics, 2013, 53, 439-446.	3.9	3
216	Fast simulation of non-linear pulsed ultrasound fields using an angular spectrum approach. Ultrasonics, 2013, 53, 588-594.	3.9	10

#	ARTICLE	IF	CITATIONS
217	A delta-sigma beamformer with integrated apodization. , 2013, , .		1
218	3D ultrasound imaging performance of a row-column addressed 2D array transducer: a simulation study. Proceedings of SPIE, 2013, , .	0.8	21
219	Non-invasive measurement of pressure gradients using ultrasound. Proceedings of SPIE, 2013, , .	0.8	2
220	Synthetic aperture flow imaging using dual stage beamforming: Simulations and experiments. Journal of the Acoustical Society of America, 2013, 133, 2014-2024.	1.1	12
221	Intraoperative Cardiac Ultrasound Examination Using Vector Flow Imaging. Ultrasonic Imaging, 2013, 35, 318-332.	2.6	31
222	Preliminary study of synthetic aperture tissue harmonic imaging on in-vivo data. , 2013, , .		5
223	Real time deconvolution of in-vivo ultrasound images. , 2013, , .		5
224	Inter-operator variability in defining uterine position using three-dimensional ultrasound imaging. , 2013, , .		1
225	Modeling and measurements of CMUTs with square anisotropic plates. , 2013, , .		6
226	3-D ultrasound imaging performance of a row-column addressed 2-D array transducer: A measurement study. , 2013, , .		29
227	Void-free direct bonding of CMUT arrays with single crystalline plates and pull-in insulation. , 2013, , .		8
228	In vivo three-dimensional velocity vector imaging and volumetric flow rate measurements. , 2013, , .		1
229	Iterative autocorrelation motion estimation with application to elasticity imaging. , 2013, , .		2
230	Intraoperative vector flow imaging of the heart. , 2013, , .		0
231	Non-invasive measurement of pressure gradients in pulsatile flow using ultrasound. , 2013, , .		0
232	Optimization of transverse oscillating fields for vector velocity estimation with convex arrays. , 2013, , .		14
233	Spectral velocity estimation in the transverse direction. , 2013, , .		4
234	New developments in vector velocity imaging using the transverse oscillation approach. Proceedings of SPIE, 2013, , .	0.8	4

#	ARTICLE	IF	CITATIONS
235	Spatial impulse response of a rectangular double curved transducer. Journal of the Acoustical Society of America, 2012, 131, 2730-2741.	1.1	2
236	A Method for Direct Localized Sound Speed Estimates Using Registered Virtual Detectors. Ultrasonic Imaging, 2012, 34, 159-180.	2.6	17
237	Optimizing synthetic aperture compound imaging. , 2012, , .		2
238	Computational fluid dynamics using in vivo ultrasound blood flow measurements. , 2012, , .		3
239	Comparison of 3D synthetic aperture imaging and explososcan using phantom measurements. , 2012, , .		5
240	Transverse oscillation vector velocity estimation using a phased array transducer. , 2012, , .		0
241	In vivo color flow mapping using synthetic aperture dual stage beamforming. , 2012, , .		0
242	Ultrasound backscatter from free-swimming fish at 1 MHz for fish identification. , 2012, , .		5
243	Implementation of tissue harmonic synthetic aperture imaging on a commercial ultrasound system. , 2012, , .		7
244	Preliminary comparison of 3D synthetic aperture imaging with Explososcan. , 2012, , .		4
245	Multilayer Piezoelectric Transducer Models Combined with Field II. Acta Acustica United With Acustica, 2012, 98, 546-554.	0.8	1
246	Clinical evaluation of synthetic aperture sequential beamforming. , 2012, , .		0
247	Age and gender related differences in aortic blood flow. Proceedings of SPIE, 2012, , .	0.8	0
248	Comparison of Real-Time In Vivo Spectral and Vector Velocity Estimation. Ultrasound in Medicine and Biology, 2012, 38, 145-151.	1.5	63
249	Compounding in synthetic aperture imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2054-65.	3.0	20
250	In Vivo Evaluation of Synthetic Aperture Sequential Beamforming. Ultrasound in Medicine and Biology, 2012, 38, 708-716.	1.5	26
251	Phased-array vector velocity estimation using transverse oscillations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2662-75.	3.0	34
252	Shadow effects in simulated ultrasound images derived from computed tomography images using a focused beam tracing model. Journal of the Acoustical Society of America, 2012, 132, 487-497.	1.1	0

#	ARTICLE	IF	CITATIONS
253	Implementation of a versatile research data acquisition system using a commercially available medical ultrasound scanner. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1487-1499.	3.0	41
254	Modelling of CMUTs with anisotropic plates. , 2012, , .		4
255	Measuring 3D velocity vectors using the Transverse Oscillation method. , 2012, , .		17
256	Scalable intersample interpolation architecture for high-channel-count beamformers. , 2011, , .		0
257	Angular spectrum approach for fast simulation of pulsed non-linear ultrasound fields. , 2011, , .		2
258	Second harmonic imaging using synthetic aperture sequential beamforming. , 2011, , .		4
259	Directional synthetic aperture flow imaging using a dual stage beamformer approach. , 2011, , .		1
260	Synthetic aperture beamformation using the GPU. , 2011, , .		9
261	Simulation of shadowing effects in ultrasound imaging from computed tomography images. , 2011, , .		1
262	An object-oriented multi-threaded software beamformation toolbox. , 2011, , .		41
263	Synthetic aperture focusing for a single-element transducer undergoing helical motion. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 935-943.	3.0	14
264	Ultrasonic colour Doppler imaging. Interface Focus, 2011, 1, 490-502.	3.0	98
265	Comparison of simulated and measured nonlinear ultrasound fields. , 2011, , .		6
266	Preliminary comparison between real-time in-vivo spectral and transverse oscillation velocity estimates. Proceedings of SPIE, 2011, , .	0.8	0
267	Ultrasonography Fused with PET-CT Hybrid Imaging. Current Medical Imaging, 2011, 7, 248-251.	0.8	2
268	New interpretation of arterial stiffening due to cigarette smoking using a structurally motivated constitutive model. Journal of Biomechanics, 2011, 44, 1209-1211.	2.1	7
269	Blood velocity estimation using ultrasound and spectral iterative adaptive approaches. Signal Processing, 2011, 91, 1275-1283.	3.7	37
270	New Technology " Demonstration of a Vector Velocity Technique. Ultraschall in Der Medizin, 2011, 32, 213-215.	1.5	29

#	ARTICLE	IF	CITATIONS
271	3D vector velocity estimation using a 2D phased array. , 2011, , .		14
272	Compound imaging using Synthetic Aperture Sequential Beamformation. , 2011, , .		1
273	An architecture and implementation of real-time synthetic aperture compounding with SARUS. , 2011, , .		2
274	Performance of synthetic aperture compounding for in-invo imaging. , 2011, , .		4
275	Arterial secondary blood flow patterns visualized with vector flow ultrasound. , 2011, , .		3
276	Preliminary in-vivo evaluation of synthetic aperture sequential beamformation using a multielement convex array. , 2011, , .		3
277	Recent advances in blood flow vector velocity imaging. , 2011, , .		17
278	Non-linear Imaging sing an Experimental Synthetic Aperture Real Time Ultrasound Scanner. IFMBE Proceedings, 2011, , 101-104.	0.3	3
279	Simulation of ultrasound backscatter images from fish. Proceedings of SPIE, 2011, , .	0.8	3
280	Third harmonic imaging using pulse inversion. , 2011, , .		4
281	Ultrasound image quality assessment: a framework for evaluation of clinical image quality. Proceedings of SPIE, 2010, , .	0.8	17
282	Non-invasive estimation of blood pressure using ultrasound contrast agents. Physics Procedia, 2010, 3, 245-253.	1.2	5
283	High resolution ultrasound imaging using adaptive beamforming with reduced number of active elements. Physics Procedia, 2010, 3, 659-665.	1.2	4
284	Calibration of Field II using a convex ultrasound transducer. Physics Procedia, 2010, 3, 995-1001.	1.2	1
285	In-vivo validation of fast spectral velocity estimation techniques. Ultrasonics, 2010, 50, 52-59.	3.9	16
286	Impact of acoustic pressure on ambient pressure estimation using ultrasound contrast agent. Ultrasonics, 2010, 50, 294-299.	3.9	38
287	Synthetic aperture flow imaging using a dual stage beamformer approach. , 2010, , .		2
288	Simulation of high quality ultrasound imaging. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
289	A Movable Phantom Design for Quantitative Evaluation of Motion Correction Studies on High Resolution PET Scanners. IEEE Transactions on Nuclear Science, 2010, 57, 1116-1124.	2.0	7
290	A method for synthetic aperture compounding. , 2010, , .		0
291	Quantification of complex blood flow using real-time in vivo vector flow ultrasound. , 2010, , .		1
292	Simulating capacitive micromachined ultrasonic transducers (CMUTs) using field II. , 2010, , .		4
293	Evaluation of automatic time gain compensated in-vivo ultrasound sequences. , 2010, , .		0
294	Simulation of second harmonic ultrasound fields. , 2010, , .		4
295	Modeling transducer impulse responses for predicting calibrated pressure pulses with the ultrasound simulation program Field II. Journal of the Acoustical Society of America, 2010, 127, 2825-2835.	1.1	17
296	Performance of SARUS: A synthetic aperture real-time ultrasound system. , 2010, , .		27
297	Three-dimensional synthetic aperture focusing using a rocking convex array transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1051-1063.	3.0	19
298	Testing of a spatial impulse response algorithm for double curved transducers. , 2010, , .		1
299	Transverse oscillations for phased array vector velocity imaging. , 2010, , .		3
300	Practical applications of synthetic aperture imaging. , 2010, , .		22
301	Performance of the Transverse Oscillation method using beamformed data from a commercial scanner. , 2009, , .		3
302	Precise time-of-flight calculation for 3-D synthetic aperture focusing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1880-1887.	3.0	11
303	Parameter sensitivity study of a Field II multilayer transducer model on a convex transducer. , 2009, , .		0
304	Evaluation study of fast spectral estimators using in-vivo data. , 2009, , .		0
305	Ambient pressure sensitivity of microbubbles investigated through a parameter study. Journal of the Acoustical Society of America, 2009, 126, 3350-3358.	1.1	38
306	Spatial resolution of the HRRT PET scanner using 3D-OSEM PSF reconstruction. , 2009, , .		29

#	ARTICLE	IF	CITATIONS
307	In-vivo Examples of Flow Patterns With The Fast Vector Velocity Ultrasound Method. <i>Ultraschall in Der Medizin</i> , 2009, 30, 471-477.	1.5	54
308	In vivo comparison of three ultrasound vector velocity techniques to MR phase contrast angiography. <i>Ultrasonics</i> , 2009, 49, 659-667.	3.9	43
309	Adaptive spectral doppler estimation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 700-714.	3.0	37
310	Broadband minimum variance beamforming for ultrasound imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 314-325.	3.0	200
311	Angular spectrum simulation of pulsed ultrasound fields. , 2009, , .		2
312	Adaptive receive and transmit apodization for synthetic aperture ultrasound imaging. , 2009, , .		21
313	APES beamforming applied to medical ultrasound imaging. , 2009, , .		11
314	In vivo validation of a blood vector velocity estimator with MR angiography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 91-100.	3.0	43
315	Synthetic Aperture Sequential Beamforming. , 2008, , .		34
316	High frame-rate blood vector velocity imaging using plane waves: Simulations and preliminary experiments. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 1729-1743.	3.0	221
317	Estimating 2-D vector velocities using multidimensional spectrum analysis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 1744-1754.	3.0	10
318	Rocking convex array used for 3D synthetic aperture focusing. , 2008, , .		1
319	Duplex scanning using sparse data sequences. , 2008, , .		11
320	Coded ultrasound for blood flow estimation using subband processing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 2211-2220.	3.0	25
321	Spatial encoding using a code division technique for fast ultrasound imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 12-23.	3.0	30
322	Investigation of sound speed errors in adaptive beamforming. , 2008, , .		7
323	In-vivo validation of fast spectral velocity estimation techniques - preliminary results. , 2008, , .		0
324	Fast parametric beamformer for synthetic aperture imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 1755-1767.	3.0	37

#	ARTICLE	IF	CITATIONS
325	Fast Blood Vector Velocity Imaging using ultrasound: In-vivo examples of complex blood flow in the vascular system. , 2008, , .		9
326	Precision of needle tip localization using a receiver in the needle. , 2008, , .		6
327	Transverse correlation: An efficient transverse flow estimator - initial results. , 2008, , .		1
328	Testing of a one dimensional model for Field II calibration. , 2008, , .		3
329	In vitro measurement of ambient pressure changes using a realistic clinical setup. , 2008, , .		4
330	Feasibility of non-linear simulation for Field II using an angular spectrum approach. , 2008, , .		5
331	Plane wave medical ultrasound imaging using adaptive beamforming. , 2008, , .		19
332	Multi-frequency encoding for fast color flow or quadroplex imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 778-786.	3.0	8
333	Pulse wave velocity in the carotid artery. , 2008, , .		30
334	In-vivo evaluation of three ultrasound vector velocity techniques with MR angiography. , 2008, , .		1
335	Simulation of microbubble response to ambient pressure changes. Proceedings of SPIE, 2008, , .	0.8	4
336	P6B-5 In Vivo Vector Flow Imaging Using Improved Directional Beamforming. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
337	P2B-1 Synthetic Aperture Focusing Applied to Imaging Using a Rotating Single Element Transducer. , 2007, , .		14
338	11C-1 Fast Spectral Velocity Estimation Using Adaptive Techniques: In-Vivo Results. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2
339	Adaptive Blood Velocity Estimation in Medical Ultrasound. , 2007, , .		6
340	P6B-4 Multi-Dimensional Spectrum Analysis for 2-D Vector Velocity Estimation. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
341	11C-4 Fast Blood Vector Velocity Imaging: Simulations and Preliminary In Vivo Results. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	5
342	12B-6 Multi-Frequency Encoding for Rapid Color Flow and Quadroplex Imaging. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0

#	ARTICLE	IF	CITATIONS
343	Effects Influencing Focusing in Synthetic Aperture Vector Flow Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1811-1825.	3.0	52
344	12B-3 Validation of Transverse Oscillation Vector Velocity Estimation In-Vivo. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2
345	Coded ultrasound for blood flow estimation using subband processing. , 2007, , .		1
346	In vivo examples of synthetic aperture vector flow imaging. , 2007, , .		2
347	8A-3 System Architecture of an Experimental Synthetic Aperture Real-Time Ultrasound System. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	19
348	Effective and versatile software beamformation toolbox. , 2007, , .		3
349	4B-6 A Novel Method for Direct Localized Sound Speed Measurement Using the Virtual Source Paradigm. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
350	4B-4 Precise Time-of-Flight Calculation For 3D Synthetic Aperture Focusing. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2
351	Designing Waveforms for Temporal Encoding Using a Frequency Sampling Method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2070-2081.	3.0	18
352	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.	3.0	40
353	P2B-12 Minimum Variance Beamforming for High Frame-Rate Ultrasound Imaging. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	28
354	In-vivo evaluation of convex array synthetic aperture imaging. Ultrasound in Medicine and Biology, 2007, 33, 37-47.	1.5	34
355	Examples of In Vivo Blood Vector Velocity Estimation. Ultrasound in Medicine and Biology, 2007, 33, 541-548.	1.5	69
356	Medical ultrasound imaging. Progress in Biophysics and Molecular Biology, 2007, 93, 153-165.	2.9	124
357	Real-time synthetic aperture imaging: opportunities and challenges. , 2006, , .		5
358	Investigation of transverse oscillation method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 959-971.	3.0	96
359	Frequency division transmission imaging and synthetic aperture reconstruction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 900-911.	3.0	15
360	Directional velocity estimation using a spatio-temporal encoding technique based on frequency division for synthetic transmit aperture ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1289-1299.	3.0	14

#	ARTICLE	IF	CITATIONS
361	Estimation of Velocity Vectors in Synthetic Aperture Ultrasound Imaging. IEEE Transactions on Medical Imaging, 2006, 25, 1637-1644.	8.9	46
362	Plane wave fast color flow mode imaging: a parameter study. , 2006, , .		1
363	Introduction to the Special Issue on Novel Equipment for Ultrasound Research. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1705-1706.	3.0	25
364	Parameter study of 3D synthetic aperture post-beamforming procedure. Ultrasonics, 2006, 44, e159-e164.	3.9	5
365	Synthetic aperture ultrasound imaging. Ultrasonics, 2006, 44, e5-e15.	3.9	640
366	Recursive delay calculation unit for parametric beamformer. , 2006, , .		10
367	Spectral velocity estimation in ultrasound using sparse data sets. Journal of the Acoustical Society of America, 2006, 120, 211-220.	1.1	28
368	P2F-6 Designing Non-Linear Frequency Modulated Signals for Medical Ultrasound Imaging. , 2006, , .		10
369	2K-6 Cardiac In-Vivo Measurements Using Synthetic Transmit Aperture Ultrasound. , 2006, , .		1
370	1K-3 Preliminary In-Vivo Results for Spatially Coded Synthetic Transmit Aperture Ultrasound Based on Frequency Division. , 2006, , .		3
371	Estimation of velocity vector angles using the directional cross-correlation method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2036-2049.	3.0	31
372	P3C-3 In-Vivo Vector Velocity Imaging Using Directional Cross-Correlation. , 2006, , .		1
373	P3H-2 Improved Beamforming for Lateral Oscillations in Elastography Using Synthetic Aperture Imaging. , 2006, , .		8
374	P3C-4 Motion Compensated Beamforming in Synthetic Aperture Vector Flow Imaging. , 2006, , .		1
375	Fast color flow mode imaging using plane wave excitation and temporal encoding. , 2005, , .		9
376	Experimental investigation of synthetic aperture flow angle estimation. , 2005, , .		1
377	Spatio-temporal encoding using narrow-band linear frequency modulated signals in synthetic aperture ultrasound imaging. , 2005, , .		8
378	Use of modulated excitation signals in medical ultrasound. Part II: design and performance for medical imaging applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 192-207.	3.0	205

#	ARTICLE	IF	CITATIONS
379	Ultrasound research scanner for real-time synthetic aperture data acquisition. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 881-891.	3.0	148
380	Use of modulated excitation signals in medical ultrasound. Part I: basic concepts and expected benefits. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 177-191.	3.0	322
381	Use of modulated excitation signals in medical ultrasound. Part III: high frame rate imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 208-219.	3.0	108
382	Compact FPGA-based beamformer using oversampled 1-bit A/D converters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 870-880.	3.0	35
383	OC095: Synthetic aperture imaging in medical ultrasound. Ultrasound in Obstetrics and Gynecology, 2004, 24, 242-242.	1.7	0
384	Maximum likelihood blood velocity estimator incorporating properties of flow physics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 80-92.	3.0	10
385	Directional synthetic aperture flow imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1107-1118.	3.0	67
386	Compact implementation of dynamic receive apodization in ultrasound scanners. , 2004, 5373, 260.		12
387	Method for in-vivo synthetic aperture B-flow imaging. , 2004, 5373, 44.		1
388	A code division technique for multiple element synthetic aperture transmission. , 2004, , .		4
389	Preliminary in-vivo evaluation of convex array synthetic aperture imaging. , 2004, , .		9
390	An in vitro investigation of transverse flow estimation. , 2004, , .		4
391	Real time 3D visualization of ultrasonic data using a standard PC. Ultrasonics, 2003, 41, 421-426.	3.9	12
392	Simulation of RF data with tissue motion for optimizing stationary echo canceling filters. Ultrasonics, 2003, 41, 415-419.	3.9	18
393	Clinical evaluation of chirp-coded excitation in medical ultrasound. Ultrasound in Medicine and Biology, 2003, 29, 895-905.	1.5	96
394	Delay generation methods with reduced memory requirements. , 2003, , .		13
395	Directional velocity estimation using focusing along the flow direction. II: experimental investigation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 873-880.	3.0	35
396	Directional velocity estimation using focusing along the flow direction. I: theory and simulation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 857-872.	3.0	71

#	ARTICLE	IF	CITATIONS
397	In-vivo synthetic aperture flow imaging in medical ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 848-856.	3.0	110
398	Multielement synthetic transmit aperture imaging using temporal encoding. IEEE Transactions on Medical Imaging, 2003, 22, 552-563.	8.9	120
399	<title>New coding concept for fast ultrasound imaging using pulse trains</title>. , 2002, 4687, 68.		2
400	<title>Multi-element synthetic transmit aperture imaging using temporal encoding</title>. , 2002, , .		10
401	<title>Virtual ultrasound sources in high-resolution ultrasound imaging</title>. , 2002, , .		51
402	<title>Comparison between different encoding schemes for synthetic aperture imaging</title>. , 2002, , .		23
403	Space-time encoding for high frame rate ultrasound imaging. Ultrasonics, 2002, 40, 593-597.	3.9	39
404	A new estimator for vector velocity estimation [medical ultrasonics]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 886-894.	3.0	126
405	<title>Efficient focusing scheme for transverse velocity estimation using cross-correlation</title>. , 2001, , .		2
406	<title>Performance of velocity vector estimation using an improved dynamic beamforming setup</title>. , 2001, , .		3
407	SPEED-ACCURACY TRADE-OFFS IN COMPUTING SPATIAL IMPULSE RESPONSES FOR SIMULATING MEDICAL ULTRASOUND IMAGING. Journal of Computational Acoustics, 2001, 09, 731-744.	1.0	13
408	A new approach for the estimation of the axial velocity using ultrasound. Ultrasonics, 2000, 37, 661-665.	3.9	3
409	Application of different spatial sampling patterns for sparse array transducer design. Ultrasonics, 2000, 37, 667-671.	3.9	39
410	Algorithms for estimating blood velocities using ultrasound. Ultrasonics, 2000, 38, 358-362.	3.9	15
411	Potential of coded excitation in medical ultrasound imaging. Ultrasonics, 2000, 38, 183-189.	3.9	90
412	A new calculation procedure for spatial impulse responses in ultrasound. Journal of the Acoustical Society of America, 1999, 105, 3266-3274.	1.1	72
413	A new method for estimation of velocity vectors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 837-851.	3.0	385
414	Computer Phantoms for Simulating Ultrasound B-Mode and CFM Images. Acoustical Imaging, 1997, , 75-80.	0.2	84

#	ARTICLE	IF	CITATIONS
415	Ultrasound fields from triangular apertures. Journal of the Acoustical Society of America, 1996, 100, 2049-2056.	1.1	49
416	An Analysis of Pulsed Wave Ultrasound Systems for Blood Velocity Estimation. Acoustical Imaging, 1996, , 377-384.	0.2	11
417	Two-Dimensional Random Arrays for Real Time Volumetric Imaging. Ultrasonic Imaging, 1994, 16, 143-163.	2.6	92
418	Estimation of in Vivo Pulses in Medical Ultrasound. Ultrasonic Imaging, 1994, 16, 190-203.	2.6	12
419	Artifacts in blood velocity estimation using ultrasound and cross-correlation. Medical and Biological Engineering and Computing, 1994, 32, S165-S170.	2.8	12
420	Nonparametric estimation of ultrasound pulses. IEEE Transactions on Biomedical Engineering, 1994, 41, 929-936.	4.2	67
421	Estimation of <i>in Vivo</i> Pulses in Medical Ultrasound. Ultrasonic Imaging, 1994, 16, 190-203.	2.6	15
422	Implementation of ultrasound time-domain cross-correlation blood velocity estimators. IEEE Transactions on Biomedical Engineering, 1993, 40, 468-474.	4.2	14
423	Deconvolution of In Vivo Ultrasound B-Mode Images. Ultrasonic Imaging, 1993, 15, 122-133.	2.6	50
424	Stationary echo canceling in velocity estimation by time-domain cross-correlation. IEEE Transactions on Medical Imaging, 1993, 12, 471-477.	8.9	29
425	Range/velocity limitations for time-domain blood velocity estimation. Ultrasound in Medicine and Biology, 1993, 19, 741-749.	1.5	33
426	Deconvolution of <i>in-Vivo</i> Ultrasound B-Mode Images. Ultrasonic Imaging, 1993, 15, 122-133.	2.6	44
427	Deconvolution of Ultrasound Images. Ultrasonic Imaging, 1992, 14, 1-15.	2.6	63
428	Calculation of pressure fields from arbitrarily shaped, apodized, and excited ultrasound transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1992, 39, 262-267.	3.0	2,051
429	Deconvolution of ultrasound images. Ultrasonic Imaging, 1992, 14, 1-15.	2.6	15
430	Estimation of pulses in ultrasound B-scan images. IEEE Transactions on Medical Imaging, 1991, 10, 164-172.	8.9	28
431	A model for the propagation and scattering of ultrasound in tissue. Journal of the Acoustical Society of America, 1991, 89, 182-190.	1.1	310
432	Assessment of hybrid speckle reduction algorithms. Physics in Medicine and Biology, 1991, 36, 1539-1549.	3.0	26

#	ARTICLE	IF	CITATIONS
433	Deconvolution of in vivo ultrasound images. , 0, , .		2
434	Detection probabilities for time-domain velocity estimation. , 0, , .		4
435	Simulating arbitrary-geometry ultrasound transducers using triangles. , 0, , .		7
436	A new approach to calculating spatial impulse responses. , 0, , .		9
437	Real-time blood flow estimation using a recursive least-squares lattice filter. , 0, , .		0
438	Tissue motion in blood velocity estimation and its simulation. , 0, , .		13
439	Performance of a vector velocity estimator [in ultrasound blood flow measurement]. , 0, , .		5
440	Recursive ultrasound imaging. , 0, , .		50
441	Experimental ultrasound system for real-time synthetic imaging. , 0, , .		45
442	Fast simulation of ultrasound images. , 0, , .		37
443	Improved beamforming performance using pulsed plane wave decomposition. , 0, , .		2
444	3D synthetic aperture imaging using a virtual source element in the elevation plane. , 0, , .		34
445	Clinical use and evaluation of coded excitation in B-mode images. , 0, , .		24
446	Velocity estimation using recursive ultrasound imaging and spatially encoded signals. , 0, , .		7
447	A new maximum likelihood blood velocity estimator incorporating spatial and temporal correlation. , 0, , .		1
448	Spatial filters for focusing ultrasound images. , 0, , .		15
449	Joint probability discrimination between stationary tissue and blood velocity signals. , 0, , .		0
450	Equipment and methods for synthetic aperture anatomic and flow imaging. , 0, , .		8

#	ARTICLE	IF	CITATIONS
451	Three-dimensional real-time synthetic aperture imaging using a rotating phased array transducer. , 0, , .		12
452	Trade off study on different envelope detectors for B-mode imaging. , 0, , .		7
453	A method for real-time three-dimensional vector velocity imaging. , 0, , .		8
454	Experimental investigation of transverse flow estimation using transverse oscillation. , 0, , .		8
455	Multi element synthetic aperture transmission using a frequency division approach. , 0, , .		11
456	Spectral velocity estimation using the autocorrelation function and sparse data sequences. , 0, , .		2
457	Blood vector velocity estimation using an autocorrelation approach: in vivo investigation. , 0, , .		1
458	Comparing interpolation schemes in dynamic receive ultrasound beamforming. , 0, , .		8