Hendrik J Vos

List of Publications by Year
in descending order

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69 papers	1,514 citations	430874 18 h-index	330143 37 g-index
71 all docs	71 docs citations	71 times ranked	1651 citing authors

#	Article	IF	Citations
1	Spatiotemporal Distribution of Nanodroplet Vaporization in a Proton Beam Using Real-Time Ultrasound Imaging for Range Verification. Ultrasound in Medicine and Biology, 2022, 48, 149-156.	1.5	9
2	Assessing cardiac stiffness using ultrasound shear wave elastography. Physics in Medicine and Biology, 2022, 67, 02TR01.	3.0	22
3	Acoustic Modulation Enables Proton Detection With Nanodroplets at Body Temperature. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2028-2038.	3.0	3
4	A 1.2mW/channel 100Âµm-Pitch-Matched Transceiver ASIC with Boxcar-Integration-Based RX Micro-Beamformer for High-Resolution 3D Ultrasound Imaging. , 2022, , .		2
5	Left ventricular high frame rate echo-particle image velocimetry: clinical application and comparison with conventional imaging. Cardiovascular Ultrasound, 2022, 20, 11.	1.6	3
6	Independent Component Analysis Filter for Small Vessel Contrast Imaging During Fast Tissue Motion. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2282-2292.	3.0	1
7	A Compact Integrated High-Voltage Pulser Insensitive to Supply Transients for 3-D Miniature Ultrasound Probes. IEEE Solid-State Circuits Letters, 2022, 5, 166-169.	2.0	7
8	Imaging Scheme for 3-D High-Frame-Rate Intracardiac Echography: A Simulation Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2862-2874.	3.0	3
9	Combining Ultrafast Ultrasound and High-Density EMG to Assess Local Electromechanical Muscle Dynamics: A Feasibility Study. IEEE Access, 2021, 9, 45277-45288.	4.2	23
10	Optimization of Microbubble Concentration and Acoustic Pressure for Left Ventricular High-Frame-Rate EchoPIV in Patients. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2432-2443.	3.0	4
11	Revealing Intraosseous Blood Flow in the Human Tibia With Ultrasound. JBMR Plus, 2021, 5, e10543.	2.7	9
12	High Frame Rate Volumetric Imaging of Microbubbles Using a Sparse Array and Spatial Coherence Beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3069-3081.	3.0	17
13	Design of an Ultrasound Transceiver ASIC with a Switching-Artifact Reduction Technique for 3D Carotid Artery Imaging. Sensors, 2021, 21, 150.	3.8	7
14	Ultrasound-Mediated Drug Delivery With a Clinical Ultrasound System: In Vitro Evaluation. Frontiers in Pharmacology, 2021, 12, 768436.	3.5	12
15	Experimental Investigation of the Effect of Subdicing on an Ultrasound Matrix Transducer. , 2021, , .		3
16	Impact of Bit Errors in Digitized RF Data on Ultrasound Image Quality. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 13-24.	3.0	2
17	Local myocardial stiffness variations identified by high frame rate shear wave echocardiography. Cardiovascular Ultrasound, 2020, 18, 40.	1.6	5
18	Receive/Transmit Aperture Selection for 3D Ultrasound Imaging with a 2D Matrix Transducer. Applied Sciences (Switzerland), 2020, 10, 5300.	2.5	9

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19	A direct comparison of natural and acoustic-radiation-force-induced cardiac mechanicalÂwaves. Scientific Reports, 2020, 10, 18431.	3.3	11
20	Contrast-Enhanced High-Frame-Rate Ultrasound Imaging of Flow Patterns in Cardiac Chambers and Deep Vessels. Ultrasound in Medicine and Biology, 2020, 46, 2875-2890.	1.5	15
21	The effect of size range on ultrasound-induced translations in microbubble populations. Journal of the Acoustical Society of America, 2020, 147, 3236-3247.	1.1	12
22	Parasternal Versus Apical View in Cardiac Natural Mechanical Wave Speed Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1590-1602.	3.0	11
23	4-D Echo-Particle Image Velocimetry in a Left Ventricular Phantom. Ultrasound in Medicine and Biology, 2020, 46, 805-817.	1.5	38
24	Design of a Dual Frequency Probe for Photoacoustic Imaging of the Carotid Artery. , 2020, , .		0
25	Myocardial Stretch Post-atrial Contraction in Healthy Volunteers and Hypertrophic Cardiomyopathy Patients. Ultrasound in Medicine and Biology, 2019, 45, 1987-1998.	1.5	13
26	Microbubble Radiation Force-Induced Translation in Plane-Wave Versus Focused Transmission Modes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1856-1865.	3.0	9
27	Naturally Occurring Shear Waves in Healthy Volunteers and Hypertrophic Cardiomyopathy Patients. Ultrasound in Medicine and Biology, 2019, 45, 1977-1986.	1.5	23
28	High-Frame-Rate Echo-Particle Image Velocimetry Can Measure the High-Velocity Diastolic Flow Patterns. Circulation: Cardiovascular Imaging, 2019, 12, e008856.	2.6	20
29	A comparison of natural and acoustic radiation force induced shear wave propagation speed measurements in open-chest pigs. , 2019, , .		1
30	Numerical model of Lamb wave propagation in the tapered septal wall of the heart. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
31	Direction-independent bulk shear wave speed in 3D. , 2019, , .		0
32	3D high frame rate flow measurement using a prototype matrix transducer for carotid imaging. , 2019, , .		2
33	Two-Stage Beamforming for Phased Array Imaging Using the Fast Hankel Transform. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 297-308.	3.0	2
34	High Frame Rate Ultrasound Particle Image Velocimetry for Estimating High Velocity Flow Patterns in the Left Ventricle. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2222-2232.	3.0	21
35	Quantitative imaging performance of frequency-tunable capacitive micromachined ultrasonic transducer array designed for intracardiac application: Phantom study. Ultrasonics, 2018, 84, 421-429.	3.9	9
36	Virtually Extended Array Imaging Improves Lateral Resolution in High Frame Rate Volumetric Imaging. , 2018, , .		0

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37	A Study of Radiation Force Effects in Plane-Wave Transmission Mode. , 2018, , .		1
38	Sparse Volumetric PZT Array with Density Tapering. , 2018, , .		7
39	Frequency Domain Two-Stage Beamforming for Phased Array Imaging Using the Fast Hankel Transform. , 2018, , .		0
40	Effect of Clot Stiffness on Recombinant Tissue Plasminogen Activator Lytic Susceptibility in Vitro. Ultrasound in Medicine and Biology, 2018, 44, 2710-2727.	1.5	35
41	A Pitch-Matched Front-End ASIC With Integrated Subarray Beamforming ADC for Miniature 3-D Ultrasound Probes. IEEE Journal of Solid-State Circuits, 2018, 53, 3050-3064.	5.4	43
42	Fast Volumetric Imaging Using a Matrix Transesophageal Echocardiography Probe with Partitioned Transmitâ€“Receive Array. Ultrasound in Medicine and Biology, 2018, 44, 2025-2042.	1.5	5
43	Acoustic characterization of a miniature matrix transducer for pediatric 3D transesophageal echocardiography. Ultrasound in Medicine and Biology, 2018, 44, 2143-2154.	1.5	7
44	High-Frame-Rate Contrast-enhanced US Particle Image Velocimetry in the Abdominal Aorta: First Human Results. Radiology, 2018, 289, 119-125.	7.3	18
45	A Reconfigurable Ultrasound Transceiver ASIC With <inline-formula> <tex-math notation="LaTeX">$24imes40$ </tex-math> </inline-formula> Elements for 3-D Carotid Artery Imaging. IEEE Journal of Solid-State Circuits, 2018, 53, 2065-2075.	5.4	30
46	High-Frame-Rate Contrast-Enhanced Ultrasound for Velocimetry in the Human Abdominal Aorta. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2245-2254.	3.0	18
47	Plane-Wave Contrast Imaging: A Radiation Force Point of View. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2296-2300.	3.0	9
48	A Front-End ASIC With Receive Sub-array Beamforming Integrated With a $32 imes 32$ PZT Matrix Transducer for 3-D Transesophageal Echocardiography. IEEE Journal of Solid-State Circuits, 2017, 52, 994-1006.	5.4	70
49	Cardiac Shear Wave Velocity Detection in the Porcine Heart. Ultrasound in Medicine and Biology, 2017, 43, 753-764.	1.5	50
50	Cardiac Shear Wave Elastography Using a Clinical Ultrasound System. Ultrasound in Medicine and Biology, 2017, 43, 1596-1606.	1.5	37
51	High-Frame-Rate Power Doppler Ultrasound Is More Sensitive than Conventional Power Doppler in Detecting Rheumatic Vascularisation. Ultrasound in Medicine and Biology, 2017, 43, 1868-1879.	1.5	9
52	Towards 3D ultrasound imaging of the carotid artery using a programmable and tileable matrix array. , 2017, , .		0
53	Preclinical Testing of Frequency-Tunable Capacitive Micromachined Ultrasonic Transducer Probe Prototypes. Ultrasound in Medicine and Biology, 2017, 43, 2079-2085.	1.5	11
54	Dual stage beamforming in the absence of front-end receive focusing. Physics in Medicine and Biology, 2017, 62, 6631-6648.	3.0	2

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55	Early detection of left ventricular diastolic dysfunction using conventional and speckle tracking echocardiography in a large animal model of metabolic dysfunction. International Journal of Cardiovascular Imaging, 2017, 34, 743-749.	1.5	13
56	Focal areas of increased lipid concentration on the coating of microbubbles during short tone-burst ultrasound insonification. PLoS ONE, 2017, 12, e0180747.	2.5	17
57	Native blood speckle vs ultrasound contrast agent for particle image velocimetry with ultrafast ultrasound - in vitro experiments. , 2016, , .		8
58	Detection of Contrast Agents: Plane Wave Versus Focused Transmission. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 203-211.	3.0	37
59	A Prototype PZT Matrix Transducer With Low-Power Integrated Receive ASIC for 3-D Transesophageal Echocardiography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 47-59.	3.0	60
60	Fâ€“ k Domain Imaging for Synthetic Aperture Sequential Beamforming. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 60-71.	3.0	19
61	Calibrating Doppler Imaging of Preterm Intracerebral Circulation Using a Microvessel Flow Phantom. Frontiers in Human Neuroscience, 2015, 8, 1068.	2.0	10
62	Synthetic Aperture Sequential Beamforming for phased array imaging. , 2015, , .		7
63	Acoustic droplet vaporization is initiated by superharmonic focusing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1697-1702.	7.1	159
64	Lipid Shedding from Single Oscillating Microbubbles. Ultrasound in Medicine and Biology, 2014, 40, 1834-1846.	1.5	71
65	Acoustic behavior of microbubbles and implications for drug delivery. Advanced Drug Delivery Reviews, 2014, 72, 28-48.	13.7	295
66	Parametric array technique for microbubble excitation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 924-934.	3.0	7
67	Nonspherical Shape Oscillations of Coated Microbubbles inÂContact With a Wall. Ultrasound in Medicine and Biology, 2011, 37, 935-948.	1.5	65
68	Self-demodulation of high-frequency ultrasound. Journal of the Acoustical Society of America, 2010, 127, 1208-1217.	1.1	18
69	Method for Microbubble Characterization Using Primary Radiation Force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1333-1345.	3.0	48