Nico De Jong

List of Publications by Year
in descending order

367	15,905	15503 65	22161 113
papers	citations	h-index	g-index

395	395	395	7077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of Pipe and Fluid Properties With a Matrix Array-Based Ultrasonic Clamp-On Flow Meter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 309-322.	3.0	8
2	Hydroxyl Ethyl Starch (HES) Preserves Intrarenal Microcirculatory Perfusion Shown by Contrast-Enhanced Ultrasound (Ceus), and Renal Function in a Severe Hemodilution Model in Pigs. Shock, 2022, 57, 457-466.	2.1	4
3	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
4	Refraction-Corrected Transcranial Ultrasound Imaging Through the Human Temporal Window Using a Single Probe. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1191-1203.	3.0	13
5	Theranostic Microbubbles with Homogeneous Ligand Distribution for Higher Binding Efficacy. Pharmaceutics, 2022, 14, 311.	4.5	3
6	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
7	Left ventricular high frame rate echo-particle image velocimetry: clinical application and comparison with conventional imaging. Cardiovascular Ultrasound, 2022, 20, 11.	1.6	3
8	Internalization of targeted microbubbles by endothelial cells and drug delivery by pores and tunnels. Journal of Controlled Release, 2022, 347, 460-475.	9.9	12
9	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
10	Multi-angle data acquisition to compensate transducer finite size in photoacoustic tomography. Photoacoustics, 2022, 27, 100373.	7.8	12
11	Dispersing and Sonoporating Biofilm-Associated Bacteria with Sonobactericide. Pharmaceutics, 2022, 14, 1164.	4.5	4
12	Design and Proof-of-Concept of a Matrix Transducer Array for Clamp-On Ultrasonic Flow Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2555-2568.	3.0	2
13	An iterative method to evaluate one-dimensional pulsed nonlinear elastic wavefields and mixing of elastic waves in solids. Journal of the Acoustical Society of America, 2022, 151, 3316-3327.	1.1	0
14	Time-resolved absolute radius estimation of vibrating contrast microbubbles using an acoustical camera. Journal of the Acoustical Society of America, 2022, 151, 3993-4003.	1.1	4
15	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
16	Accelerated 2-D Real-Time Refraction-Corrected Transcranial Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2599-2610.	3.0	7
17	Measurement of Pipe and Liquid Parameters Using the Beam Steering Capabilities of Array-Based Clamp-On Ultrasonic Flow Meters. Sensors, 2022, 22, 5068.	3.8	3
18	Lamb Waves and Adaptive Beamforming for Aberration Correction in Medical Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 84-91.	3.0	11

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19	An Algorithm to Minimize the Zero-Flow Error in Transit-Time Ultrasonic Flowmeters. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	8
20	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
21	The Impact of Lipid Handling and Phase Distribution on the Acoustic Behavior of Microbubbles. Pharmaceutics, 2021, 13, 119.	4.5	11
22	The Preparation of Chicken Ex Ovo Embryos and Chorioallantoic Membrane Vessels as In Vivo Model for Contrast-Enhanced Ultrasound Imaging and Microbubble-Mediated Drug Delivery Studies. Journal of Visualized Experiments, 2021, , .	0.3	5
23	Motion-compensated noninvasive periodontal health monitoring using handheld and motor-based photoacoustic-ultrasound imaging systems. Biomedical Optics Express, 2021, 12, 1543.	2.9	29
24	Feasibility of Doppler Ultrasound for Cortical Cerebral Blood Flow Velocity Monitoring During Major Non-cardiac Surgery of Newborns. Frontiers in Pediatrics, 2021, 9, 656806.	1.9	4
25	Corrections to â€œVibrational Responses of Bound and Nonbound Targeted Lipid-Coated Single Microbubblesâ€• IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2319-2319.	3.0	0
26	Corrections to â€œTargeted Microbubble Mediated Sonoporation of Endothelial Cells In Vivoâ€• IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2320-2320.	3.0	0
27	Corrections to â€œMicrobubble Composition and Preparation for High-Frequency Contrast-Enhanced Ultrasound Imaging: In Vitro and In Vivo Evaluationâ€• IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2321-2321.	3.0	1
28	Effect of a Radiotherapeutic Megavoltage Beam on Ultrasound Contrast Agents. Ultrasound in Medicine and Biology, 2021, 47, 1857-1867.	1.5	5
29	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
30	Exploiting nonlinear wave propagation to improve the precision of ultrasonic flow meters. Ultrasonics, 2021, 116, 106476.	3.9	3
31	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
32	A Transceiver ASIC for a Single-Cable 64-Element Intra-Vascular Ultrasound Probe. IEEE Journal of Solid-State Circuits, 2021, 56, 3157-3166.	5.4	11
33	Erratum to â€œLamb Waves and Adaptive Beamforming for Aberration Correction in Medical Ultrasound Imagingâ€• IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 352-353.	3.0	5
34	Design of an Ultrasound Transceiver ASIC with a Switching-Artifact Reduction Technique for 3D Carotid Artery Imaging. Sensors, 2021, 21, 150.	3.8	7
35	Vancomycin-decorated microbubbles as a theranostic agent for Staphylococcus aureus biofilms. International Journal of Pharmaceutics, 2021, 609, 121154.	5.2	11
36	Lipid Phase Distribution and Acoustic Response of DSPE-based Microbubbles. , 2021, , .		0

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37	Transcranial Ultrasound Imaging with Estimating the Geometry, Position and Wave-Speed of Temporal Bone. , 2021, , .		2
38	Experimental Investigation of the Effect of Subdicing on an Ultrasound Matrix Transducer. , 2021, , .		3
39	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
40	Local myocardial stiffness variations identified by high frame rate shear wave echocardiography. Cardiovascular Ultrasound, 2020, 18, 40.	1.6	5
41	Receive/Transmit Aperture Selection for 3D Ultrasound Imaging with a 2D Matrix Transducer. Applied Sciences (Switzerland), 2020, 10, 5300.	2.5	9
42	A direct comparison of natural and acoustic-radiation-force-induced cardiac mechanicalÂwaves. Scientific Reports, 2020, 10, 18431.	3.3	11
43	Suppression of Lamb wave excitation via aperture control of a transducer array for ultrasonic clamp-on flow metering. Journal of the Acoustical Society of America, 2020, 147, 2670-2681.	1.1	3
44	High-Resolution Imaging of Intracellular Calcium Fluctuations Caused by Oscillating Microbubbles. Ultrasound in Medicine and Biology, 2020, 46, 2017-2029.	1.5	26
45	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
46	4-D Echo-Particle Image Velocimetry in a Left Ventricular Phantom. Ultrasound in Medicine and Biology, 2020, 46, 805-817.	1.5	38
47	Opening of endothelial cellâ€“cell contacts due to sonoporation. Journal of Controlled Release, 2020, 322, 426-438.	9.9	53
48	Design of a Dual Frequency Probe for Photoacoustic Imaging of the Carotid Artery. , 2020, , .		0
49	Enhanced contrast acousticâ€resolution photoacoustic microscopy using doubleâ€stage delayâ€multiplyâ€andâ€sum beamformer for vasculature imaging. Journal of Biophotonics, 2019, 12, e201900133.	2.3	22
50	Myocardial Stretch Post-atrial Contraction in Healthy Volunteers and Hypertrophic Cardiomyopathy Patients. Ultrasound in Medicine and Biology, 2019, 45, 1987-1998.	1.5	13
51	Combined Confocal Microscope and Brandaris 128 Ultra-High-Speed Camera. Ultrasound in Medicine and Biology, 2019, 45, 2575-2582.	1.5	19
52	Development of a Stationary 3D Photoacoustic Imaging System Using Sparse Single-Element Transducers: Phantom Study. Applied Sciences (Switzerland), 2019, 9, 4505.	2.5	19
53	Reproducibility of Natural Shear Wave Elastography Measurements. Ultrasound in Medicine and Biology, 2019, 45, 3172-3185.	1.5	11
54	Naturally Occurring Shear Waves in Healthy Volunteers and Hypertrophic Cardiomyopathy Patients. Ultrasound in Medicine and Biology, 2019, 45, 1977-1986.	1.5	23

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55	Tomographic PIV in a model of the left ventricle: 3D flow past biological and mechanical heart valves. Journal of Biomechanics, 2019, 90, 40-49.	2.1	28
56	A comparison of natural and acoustic radiation force induced shear wave propagation speed measurements in open-chest pigs. , 2019, , .		1
57	Numerical model of Lamb wave propagation in the tapered septal wall of the heart. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
58	Direction-independent bulk shear wave speed in 3D. , 2019, , .		0
59	3D high frame rate flow measurement using a prototype matrix transducer for carotid imaging. , 2019, , .		2
60	Acoustic Design of a Transducer Array for Ultrasonic Clamp-on Flow Metering. , 2019, , .		3
61	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
62	Acoustic Characterization of the CLINIcell for Ultrasound Contrast Agent Studies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 244-246.	3.0	15
63	Acoustic Characterization of a Vessel-on-a-Chip Microfluidic System for Ultrasound-Mediated Drug Delivery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 570-581.	3.0	16
64	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
65	Assessment of human left ventricle flow using statistical shape modelling and computational fluid dynamics. Journal of Biomechanics, 2018, 74, 116-125.	2.1	28
66	Monodisperse Versus Polydisperse Ultrasound Contrast Agents: Non-Linear Response, Sensitivity, and Deep Tissue Imaging Potential. Ultrasound in Medicine and Biology, 2018, 44, 1482-1492.	1.5	53
67	A 0.91mW/element pitch-matched front-end ASIC with integrated subarray beamforming ADC for miniature 3D ultrasound probes. , 2018, , .		7
68	Brandaris Ultra High-Speed Imaging Facility. , 2018, , 49-77.		1
69	Virtually Extended Array Imaging Improves Lateral Resolution in High Frame Rate Volumetric Imaging. , 2018, , .		0
70	Sparse Volumetric PZT Array with Density Tapering. , 2018, , .		7
71	Minimizing the Zero-Flow Error in Transit-Time Ultrasonic Flow Meters. , 2018, , .		2
72	SPIO labeling of endothelial cells using ultrasound and targeted microbubbles at diagnostic pressures. PLoS ONE, 2018, 13, e0204354.	2.5	4

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73	A 2-D Ultrasound Transducer With Front-End ASIC and Low Cable Count for 3-D Forward-Looking Intravascular Imaging: Performance and Characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1832-1844.	3.0	31
74	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
75	Dynamic Contrast-Enhanced Ultrasound Identifies Microcirculatory Alterations in Sepsis-Induced Acute Kidney Injury. Critical Care Medicine, 2018, 46, 1284-1292.	0.9	65
76	A Front-End ASIC With High-Voltage Transmit Switching and Receive Digitization for 3-D Forward-Looking Intravascular Ultrasound Imaging. IEEE Journal of Solid-State Circuits, 2018, 53, 2284-2297.	5.4	49
77	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
78	Acoustic characterization of a miniature matrix transducer for pediatric 3D transesophageal echocardiography. Ultrasound in Medicine and Biology, 2018, 44, 2143-2154.	1.5	7
79	High-Frame-Rate Contrast-enhanced US Particle Image Velocimetry in the Abdominal Aorta: First Human Results. Radiology, 2018, 289, 119-125.	7.3	18
80	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
81	3D functional ultrasound imaging of pigeons. NeuroImage, 2018, 183, 469-477.	4.2	52
82	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
83	Non-spherical oscillations drive the ultrasound-mediated release from targeted microbubbles. Communications Physics, 2018, 1, .	5.3	35
84	Microbubble Composition and Preparation for High-Frequency Contrast-Enhanced Ultrasound Imaging: In Vitro and In Vivo Evaluation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 555-567.	3.0	24
85	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
86	Cardiac Shear Wave Velocity Detection in the Porcine Heart. Ultrasound in Medicine and Biology, 2017, 43, 753-764.	1.5	50
87	Vibrational Responses of Bound and Nonbound Targeted Lipid-Coated Single Microbubbles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 785-797.	3.0	12
88	Laser-Activated Polymeric Microcapsules for Ultrasound Imaging and Therapy: InÂVitro Feasibility. Biophysical Journal, 2017, 112, 1894-1907.	0.5	5
89	Cardiac Shear Wave Elastography Using a Clinical Ultrasound System. Ultrasound in Medicine and Biology, 2017, 43, 1596-1606.	1.5	37
90	A front-end ASIC with high-voltage transmit switching and receive digitization for forward-looking intravascular ultrasound. , 2017, , .		8

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91	Laser-driven resonance of dye-doped oil-coated microbubbles: Experimental study. Journal of the Acoustical Society of America, 2017, 141, 4832-4846.	1.1	6
92	Laser-driven resonance of dye-doped oil-coated microbubbles: A theoretical and numerical study. Journal of the Acoustical Society of America, 2017, 141, 2727-2745.	1.1	7
93	On the dynamics of StemBells: Microbubble-conjugated stem cells for ultrasound-controlled delivery. Applied Physics Letters, 2017, 111, 023701.	3.3	5
94	Compressive 3D ultrasound imaging using a single sensor. Science Advances, 2017, 3, e1701423.	10.3	98
95	Towards 3D ultrasound imaging of the carotid artery using a programmable and tileable matrix array. , 2017, , .		0
96	Notice of Removal: Forward-looking IVUS transducer with front-end ASIC for 3D imaging. , 2017, , .		0
97	Dual stage beamforming in the absence of front-end receive focusing. Physics in Medicine and Biology, 2017, 62, 6631-6648.	3.0	2
98	Characterization of Contrast Agent Microbubbles for Ultrasound Imaging and Therapy Research. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 232-251.	3.0	48
99	Frequency Tuning of Collapse-Mode Capacitive Micromachined Ultrasonic Transducer. Ultrasonics, 2017, 74, 144-152.	3.9	22
100	A comparison in therapeutic efficacy of several time points of intravenous StemBell administration in a rat model of acute myocardial infarction. Cytotherapy, 2017, 19, 131-140.	0.7	7
101	A front-end ASIC for miniature 3-D ultrasound probes with in-probe receive digitization. , 2017, , .		1
102	Notice of Removal: Volumetric imaging using adult matrix TEE with separated transmit and receive array. , 2017, , .		0
103	Notice of Removal: Acoustical compressive 3D imaging with a single sensor. , 2017, , .		0
104	A front-end ASIC for miniature 3-D ultrasound probes with in-probe receive digitization. , 2017, , .		0
105	Notice of Removal: Enhanced subharmonic emission of single microbubbles by acoustic deflation. , 2017, , .		0
106	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
107	3D Imaging with a single-element forward-looking steerable IVUS catheter: initial testing. , 2016, , .		8
108	Uniform scattering and attenuation of acoustically sorted ultrasound contrast agents: Modeling and experiments. Journal of the Acoustical Society of America, 2016, 140, 2506-2517.	1.1	72

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109	Loss of gas from echogenic liposomes exposed to pulsed ultrasound. Physics in Medicine and Biology, 2016, 61, 8321-8339.	3.0	9
110	Native blood speckle vs ultrasound contrast agent for particle image velocimetry with ultrafast ultrasound - in vitro experiments. , 2016, , .		8
111	Combined optical sizing and acoustical characterization of single freely-floating microbubbles. Applied Physics Letters, 2016, 109, .	3.3	3
112	Improving the Performance of a 1-D Ultrasound Transducer Array by Subdicing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1161-1171.	3.0	7
113	Detection of Contrast Agents: Plane Wave Versus Focused Transmission. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 203-211.	3.0	37
114	Stability of Monodisperse Phospholipid-Coated Microbubbles Formed by Flow-Focusing at High Production Rates. Langmuir, 2016, 32, 3937-3944.	3.5	74
115	Viability of endothelial cells after ultrasound-mediated sonoporation: Influence of targeting, oscillation, and displacement of microbubbles. Journal of Controlled Release, 2016, 238, 197-211.	9.9	75
116	The role of sub-dicing in the acoustical design of an ultrasound matrix transducer for carotid arteries imaging. , 2016, , .		3
117	Quantification of Endothelial Î±vÎ²3 Expression with High-Frequency Ultrasound and Targeted Microbubbles: InÂVitroÂand InÂVivo Studies. Ultrasound in Medicine and Biology, 2016, 42, 2283-2293.	1.5	21
118	Development of a new therapeutic technique to direct stem cells to the infarcted heart using targeted microbubbles: StemBells. Stem Cell Research, 2016, 17, 6-15.	0.7	24
119	Frequency Analysis of the Photoacoustic Signal Generated by Coronary Atherosclerotic Plaque. Ultrasound in Medicine and Biology, 2016, 42, 2017-2025.	1.5	24
120	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
121	A Broadband Polyvinylidene Difluoride-Based Hydrophone with Integrated Readout Circuit for Intravascular Photoacoustic Imaging. Ultrasound in Medicine and Biology, 2016, 42, 1239-1243.	1.5	17
122	Droplets, Bubbles and Ultrasound Interactions. Advances in Experimental Medicine and Biology, 2016, 880, 157-174.	1.6	28
123	Carotid artery wall dynamics captured with multi-plane high-frame-rate imaging. , 2015, , .		2
124	Dynamic acousto-elastic testing applied to a highly dispersive medium and evidence of shell buckling of lipid-coated gas microbubbles. Journal of the Acoustical Society of America, 2015, 138, 2668-2677.	1.1	8
125	Calibrating Doppler Imaging of Preterm Intracerebral Circulation Using a Microvessel Flow Phantom. Frontiers in Human Neuroscience, 2015, 8, 1068.	2.0	10
126	Carotid Intraplaque Neovascularization Quantification Software (CINQS). IEEE Journal of Biomedical and Health Informatics, 2015, 19, 332-338.	6.3	15

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127	Measuring submicrometer displacement vectors using high-frame-rate ultrasound imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1733-1744.	3.0	6
128	Synthetic Aperture Sequential Beamforming for phased array imaging. , 2015, , .		7
129	Low-power receive electronics for a miniature real-time 3D ultrasound probe. , 2015, , .		3
130	Myocardial passive shear wave detection. , 2015, , .		5
131	Increasing specificity of contrast-enhanced ultrasound imaging using the interaction of quasi counter-propagating wavefronts: a proof of concept. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1768-1778.	3.0	2
132	Subharmonic, Non-linear Fundamental and Ultraharmonic Imaging of Microbubble Contrast at High Frequencies. Ultrasound in Medicine and Biology, 2015, 41, 486-497.	1.5	29
133	Fully Automated Carotid Plaque Segmentation in Combined Contrast-Enhanced and B-Mode Ultrasound. Ultrasound in Medicine and Biology, 2015, 41, 517-531.	1.5	14
134	Targeted ultrasound contrast agents for ultrasound molecular imaging and therapy. International Journal of Hyperthermia, 2015, 31, 90-106.	2.5	60
135	Quantification of bound microbubbles in ultrasound molecular imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1190-1200.	3.0	8
136	Impulse response method for characterization of echogenic liposomes. Journal of the Acoustical Society of America, 2015, 137, 1693-1703.	1.1	11
137	Non-linear Response and Viscoelastic Properties of Lipid-Coated Microbubbles: DSPC versus DPPC. Ultrasound in Medicine and Biology, 2015, 41, 1432-1445.	1.5	51
138	Unique pumping-out fracturing mechanism of a polymer-shelled contrast agent: an acoustic characterization and optical visualization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 451-462.	3.0	9
139	Intravital microscopy of localized stem cell delivery using microbubbles and acoustic radiation force. Biotechnology and Bioengineering, 2015, 112, 220-227.	3.3	33
140	Feasibility of in vivo contrast-enhanced imaging of the renal cortex during hemorrhagic shock. , 2015, , .		1
141	Ultrasound and microbubble mediated drug delivery: Acoustic pressure as determinant for uptake via membrane pores or endocytosis. Journal of Controlled Release, 2015, 197, 20-28.	9.9	220
142	Influence of binding on the vibrational responses of targeted lipid-coated microbubbles. , 2014, , .		1
143	Photoacoustic imaging of carotid artery atherosclerosis. Journal of Biomedical Optics, 2014, 19, 110504.	2.6	61
144	Targeted microbubble mediated sonoporation of endothelial cells in vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1661-1667.	3.0	34

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145	DSPC or DPPC as main shell component influences ligand distribution and binding area of lipid-coated targeted microbubbles. European Journal of Lipid Science and Technology, 2014, 116, 1217-1227.	1.5	31
146	High frame rate ultrasound displacement vector imaging. , 2014, , .		3
147	Fully automated carotid plaque segmentation in combined B-mode and contrast enhanced ultrasound. , 2014, , .		1
148	Atherosclerotic carotid lumen segmentation in combined B-mode and contrast enhanced ultrasound images. Proceedings of SPIE, 2014, , .	0.8	2
149	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
150	New Quantification Methods for Carotid Intra-plaque Neovascularization Using Contrast-Enhanced Ultrasound. Ultrasound in Medicine and Biology, 2014, 40, 25-36.	1.5	45
151	On the Acoustic Properties of Vaporized Submicron Perfluorocarbon Droplets. Ultrasound in Medicine and Biology, 2014, 40, 1379-1384.	1.5	35
152	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. Nature Communications, 2014, 5, 3671.	12.8	31
153	Nonlinear dynamics of single freely-floating microbubbles under prolonged insonation. , 2014, , .		0
154	High-Definition Imaging of Carotid Artery Wall Dynamics. Ultrasound in Medicine and Biology, 2014, 40, 2392-2403.	1.5	90
155	Low-Amplitude Non-linear Volume Vibrations of Single Microbubbles Measured with an â€œAcoustical Cameraâ€• Ultrasound in Medicine and Biology, 2014, 40, 1282-1295.	1.5	19
156	Lipid Shedding from Single Oscillating Microbubbles. Ultrasound in Medicine and Biology, 2014, 40, 1834-1846.	1.5	71
157	Imaging Microvasculature with Contrast-Enhanced Ultraharmonic Ultrasound. Ultrasound in Medicine and Biology, 2014, 40, 1318-1328.	1.5	27
158	Acoustic behavior of microbubbles and implications for drug delivery. Advanced Drug Delivery Reviews, 2014, 72, 28-48.	13.7	295
159	Ultra-fast bright field and fluorescence imaging of the dynamics of micrometer-sized objects. Review of Scientific Instruments, 2013, 84, 063701.	1.3	34
160	Current status and future developments of contrast-enhanced ultrasound of carotid atherosclerosis. Journal of Vascular Surgery, 2013, 57, 539-546.	1.1	80
161	Acoustical response of DSPC versus DPPC lipid-coated microbubbles. , 2013, , .		6
162	Microbubble oscillations in capillary tubes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 105-114.	3.0	25

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163	20 years of ultrasound contrast agent modeling. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 7-20.	3.0	122
164	Contrast-Enhanced Intravascular Ultrasound Pulse Sequences for Bandwidth-Limited Transducers. Ultrasound in Medicine and Biology, 2013, 39, 706-713.	1.5	36
165	Far wall pseudo-enhancement: A neglected artifact in carotid contrast-enhanced ultrasound?. Atherosclerosis, 2013, 229, 451-452.	0.8	8
166	The efficiency and stability of bubble formation by acoustic vaporization of submicron perfluorocarbon droplets. Ultrasonics, 2013, 53, 1368-1376.	3.9	83
167	Secondary Bjerknes Forces Deform Targeted Microbubbles. Ultrasound in Medicine and Biology, 2013, 39, 490-506.	1.5	35
168	Very different performance of the power Doppler modalities of several ultrasound machines ascertained by a microvessel flow phantom. Arthritis Research and Therapy, 2013, 15, R162.	3.5	18
169	Ultrafast dynamics of the acoustic vaporization of phase-change microdroplets. Journal of the Acoustical Society of America, 2013, 134, 1610-1621.	1.1	57
170	Assessment of subclinical atherosclerosis using contrast-enhanced ultrasound. European Heart Journal Cardiovascular Imaging, 2013, 14, 56-61.	1.2	17
171	Ultrasound-guided photoacoustic image reconstruction: image completion and boundary suppression. Journal of Biomedical Optics, 2013, 18, 096017.	2.6	6
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