Chris L De Korte

List of Publications by Year in Descending Order

201 papers	7,953 citations	37 h-index	85 g-index
237 ext. papers	9,360 ext. citations	4 avg, IF	5.46 L-index

#	Paper	IF	Citations
201	US Attenuation for Liver Fat Quantification: An AIUM-RSNA QIBA Pulse-Echo Quantitative Ultrasound Initiative.. *Radiology*, **2022**, 210736	20.5	6
200	Multicomponent material property characterization of atherosclerotic human carotid arteries through a Bayesian Optimization based inverse finite element approach. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 126, 104996	4.1	2
199	A limited role of cytokine storm and fibrogenesis in COVID-19 related liver injury. *Journal of Gastrointestinal and Liver Diseases*, **2021**, 30, 166-168	1.4	
198	Asymptomatic systolic dysfunction on contemporary echocardiography in anthracycline-treated long-term childhood cancer survivors: a systematic review. *Journal of Cancer Survivorship*, **2021**, 1	5.1	1
197	Quantitative Evaluation of an Automated Cone-Based Breast Ultrasound Scanner for MRI-3D US Image Fusion. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1229-1239	11.7	3
196	Echocardiography protocol for early detection of cardiac dysfunction in childhood cancer survivors in the multicenter DCCSS LATER 2 CARD study: Design, feasibility, and reproducibility. *Echocardiography*, **2021**, 38, 951-963	1.5	1
195	Assessing COVID-19 pneumonia-Clinical extension and risk with point-of-care ultrasound: A multicenter, prospective, observational study. *Journal of the American College of Emergency Physicians Open*, **2021**, 2, e12429	1.6	3
194	Three-dimensional quantitative muscle ultrasound in a healthy population. *Muscle and Nerve*, **2021**, 64, 199-205	3.4	1
193	Accuracy and Reproducibility of Endoscopic Ultrasound B-Mode Features for Observer-Based Lymph Nodal Malignancy Prediction. *Respiration*, **2021**, 100, 1088-1096	3.7	0
192	3-D Ultrasound Elastography Reconstruction Using Acoustically Transparent Pressure Sensor on Robotic Arm. *IEEE Transactions on Medical Robotics and Bionics*, **2021**, 3, 265-268	3.1	1
191	The Viability of 3-D Power Doppler Imaging Using Continuous Mechanical Translation: Simulation and Theoretical Analysis. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 3270-3282	3.2	
190	3D Ultrasound Strain Imaging of Puborectalis Muscle. *Ultrasound in Medicine and Biology*, **2021**, 47, 569-581	3.5	2
189	Left ventricular dyssynchrony in long-term childhood cancer survivors treated with anthracyclines: a retrospective cross-sectional study. *International Journal of Cardiovascular Imaging*, **2021**, 37, 3469-3475	2.5	
188	Multicomponent Mechanical Characterization of Atherosclerotic Human Coronary Arteries: An Experimental and Computational Hybrid Approach. *Frontiers in Physiology*, **2021**, 12, 733009	4.6	2
187	Photoacoustic and high-frequency ultrasound imaging of systemic sclerosis patients. *Arthritis Research and Therapy*, **2021**, 23, 22	5.7	4
186	Myocardial 2D Strain During Long-Term (>5 Years) Follow-Up of Childhood Survivors of Acute Lymphoblastic Leukemia Treated With Anthracyclines. *American Journal of Cardiology*, **2020**, 127, 163-168	3	2
185	Predictive Value of Endobronchial Ultrasound Strain Elastography in Mediastinal Lymph Node Staging: The E-Predict Multicenter Study Results. *Respiration*, **2020**, 99, 484-492	3.7	11

184	Vascular Shear Wave Elastography in Atherosclerotic Arteries: A Systematic Review. *Ultrasound in Medicine and Biology*, **2020**, 46, 2145-2163	3.5	9
183	Cardiac function in relation to myocardial injury in hospitalised patients with COVID-19. *Netherlands Heart Journal*, **2020**, 28, 410-417	2.2	22
182	Optimization of transmission and reconstruction parameters in angular displacement compounding using plane wave ultrasound. *Physics in Medicine and Biology*, **2020**, 65, 085007	3.8	0
181	Production and clinical evaluation of breast lesion skin markers for automated three-dimensional ultrasonography of the breast: a pilot study. *European Radiology*, **2020**, 30, 3356-3362	8	
180	Respiratory muscle ultrasonography: methodology, basic and advanced principles and clinical applications in ICU and ED patients-a narrative review. *Intensive Care Medicine*, **2020**, 46, 594-605	14.5	53
179	Point Spread Function Formation in Plane-Wave Imaging: A Theoretical Approximation in Fourier Migration. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 296-307	3.2	2
178	Diagnostic tools for early detection of cardiac dysfunction in childhood cancer survivors: Methodological aspects of the Dutch late effects after childhood cancer (LATER) cardiology study. *American Heart Journal*, **2020**, 219, 89-98	4.9	5
177	Tissue Doppler Imaging of the Diaphragm: A Novel Approach but Too Early for Clinical Implementation?. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 202, 1741-1742	10.2	1
176	A Novel Automatic Digital Algorithm that Accurately Quantifies Steatosis in NAFLD on Histopathological Whole-Slide Images. *Cytometry Part B - Clinical Cytometry*, **2019**, 96, 521-528	3.4	15
175	In Vivo Blood Velocity Vector Imaging Using Adaptive Velocity Compounding in the Carotid Artery Bifurcation. *Ultrasound in Medicine and Biology*, **2019**, 45, 1691-1707	3.5	7
174	3-D Strain Imaging of the Carotid Bifurcation: Methods and in-Human Feasibility. *Ultrasound in Medicine and Biology*, **2019**, 45, 1675-1690	3.5	2
173	Multicore Liquid Perfluorocarbon-Loaded Multimodal Nanoparticles for Stable Ultrasound and F MRI Applied to In Vivo Cell Tracking. *Advanced Functional Materials*, **2019**, 29, 1806485	15.6	27
172	Ultrasound-guided breast biopsy of ultrasound occult lesions using multimodality image co-registration and tissue displacement tracking **2019**,		1
171	Single finger movements in the aging hand: changes in finger independence, muscle activation patterns and tendon displacement in older adults. *Experimental Brain Research*, **2019**, 237, 1141-1154	2.3	8
170	Optimal Endobronchial Ultrasound Strain Elastography Assessment Strategy: An Explorative Study. *Respiration*, **2019**, 97, 337-347	3.7	18
169	Automated Fetal Head Detection and Circumference Estimation from Free-Hand Ultrasound Sweeps Using Deep Learning in Resource-Limited Countries. *Ultrasound in Medicine and Biology*, **2019**, 45, 773-785	3.5	34
168	Quantification of Macrocirculation and Microcirculation in Brain Using Ultrasound Perfusion Imaging. *Acta Neurochirurgica Supplementum*, **2018**, 126, 115-120	1.7	4
167	Strain imaging of the lateral collateral ligament using high frequency and conventional ultrasound imaging: An ex-vivo comparison. *Journal of Biomechanics*, **2018**, 73, 233-237	2.9	3

166	Paediatric Ebstein's anomaly: how clinical presentation predicts mortality. *Archives of Disease in Childhood*, **2018**, 103, 859-863	2.2	2
165	Improved Plane-Wave Ultrasound Beamforming by Incorporating Angular Weighting and Coherent Compounding in Fourier Domain. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 749-765	3.2	16
164	Longitudinal Myocardial Deformation Does Not Predict Single Ventricle Ejection Fraction Assessed by Cardiac Magnetic Resonance Imaging in Children with a Total Cavopulmonary Connection. *Pediatric Cardiology*, **2018**, 39, 283-293	2.1	7
163	Comparison Study of Low-Cost Ultrasound Devices for Estimation of Gestational Age in Resource-Limited Countries. *Ultrasound in Medicine and Biology*, **2018**, 44, 2250-2260	3.5	3
162	Clinically-Applicable Perfluorocarbon-Loaded Nanoparticles For Photoacoustic, F Magnetic Resonance And Fluorescent Imaging. *Nanotheranostics*, **2018**, 2, 258-268	5.6	21
161	Quasi-Static Elastography and Ultrasound Plane-Wave Imaging: The Effect of Beam-Forming Strategies on the Accuracy of Displacement Estimations. *Applied Sciences (Switzerland)*, **2018**, 8, 319	2.6	5
160	A PSF-Shape-Based Beamforming Strategy for Robust 2D Motion Estimation in Ultrafast Data. *Applied Sciences (Switzerland)*, **2018**, 8, 429	2.6	7
159	3-D Single Breath-Hold Shear Strain Estimation for Improved Breast Lesion Detection and Classification in Automated Volumetric Ultrasound Scanners. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1590-1599	3.2	9
158	Simultaneous Vascular Strain and Blood Vector Velocity Imaging Using High-Frequency Versus Conventional-Frequency Plane Wave Ultrasound: A Phantom Study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1166-1181	3.2	9
157	Automated measurement of fetal head circumference using 2D ultrasound images. *PLoS ONE*, **2018**, 13, e0200412	3.7	56
156	Cardiac function in paediatric patients with congenital adrenal hyperplasia due to 21 hydroxylase deficiency. *Clinical Endocrinology*, **2018**, 88, 364-371	3.4	5
155	Tendon displacements during voluntary and involuntary finger movements. *Journal of Biomechanics*, **2018**, 67, 62-68	2.9	4
154	Multi-Plane Ultrafast Compound 3D Strain Imaging: Experimental Validation in a Carotid Bifurcation Phantom. *Applied Sciences (Switzerland)*, **2018**, 8, 637	2.6	6
153	How useful is muscle ultrasound in the diagnostic workup of neuromuscular diseases?. *Current Opinion in Neurology*, **2018**, 31, 568-574	7.1	16
152	Computer-aided detection of fasciculations and other movements in muscle with ultrasound: Development and clinical application. *Clinical Neurophysiology*, **2018**, 129, 2567-2576	4.3	5
151	Understanding the Contrast Mechanism in Rotation Elastogram: A Parametric Study. *Ultrasound in Medicine and Biology*, **2018**, 44, 1860-1872	3.5	2
150	Is 2D speckle tracking echocardiography useful for detecting and monitoring myocardial dysfunction in adult m.3243A>G carriers? - a retrospective pilot study. *Journal of Inherited Metabolic Disease*, **2017**, 40, 247-259	5.4	2
149	3D quantitative breast ultrasound analysis for differentiating fibroadenomas and carcinomas smaller than 1cm. *European Journal of Radiology*, **2017**, 88, 141-147	4.7	7

148	Three-Dimensional Model-Based Segmentation in Echocardiography Using High Temporal Tissue and Blood Flow Information. *Ultrasound in Medicine and Biology*, **2017**, 43, 2033-2044	3.5	
147	Potential of Contrast-Enhanced Ultrasound as a Bedside Monitoring Technique in Cerebral Perfusion: a Systematic Review. *Ultrasound in Medicine and Biology*, **2017**, 43, 2751-2757	3.5	14
146	Repeatability of Bolus Kinetics Ultrasound Perfusion Imaging for the Quantification of Cerebral Blood Flow. *Ultrasound in Medicine and Biology*, **2017**, 43, 2758-2764	3.5	1
145	Development of a Low-Cost Medical Ultrasound Scanner Using a Monostatic Synthetic Aperture. *IEEE Transactions on Biomedical Circuits and Systems*, **2017**, 11, 849-857	5.1	9
144	Ultrasound Imaging of Muscle Contraction of the Tibialis Anterior in Patients with Facioscapulohumeral Dystrophy. *Ultrasound in Medicine and Biology*, **2017**, 43, 2537-2545	3.5	11
143	Cardiovascular and metabolic risk in pediatric patients with congenital adrenal hyperplasia due to 21 hydroxylase deficiency. *Journal of Pediatric Endocrinology and Metabolism*, **2017**, 30, 957-966	1.6	17
142	Surgical outcome in pediatric patients with Ebstein's anomaly: A multicenter, long-term study. *Congenital Heart Disease*, **2017**, 12, 32-39	3.1	6
141	photoacoustics and high frequency ultrasound imaging of mechanical high intensity focused ultrasound (HIFU) ablation. *Biomedical Optics Express*, **2017**, 8, 2235-2244	3.5	5
140	A Comparison Between Compounding Techniques Using Large Beam-Steered Plane Wave Imaging for Blood Vector Velocity Imaging in a Carotid Artery Model. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2016**, 63, 1758-1771	3.2	12
139	2-D Versus 3-D Cross-Correlation-Based Radial and Circumferential Strain Estimation Using Multiplane 2-D Ultrafast Ultrasound in a 3-D Atherosclerotic Carotid Artery Model. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2016**, 63, 1543-1553	3.2	17
138	Review: Mechanical Characterization of Carotid Arteries and Atherosclerotic Plaques. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2016**, 63, 1613-1623	3.2	22
137	Automated 3D ultrasound elastography of the breast: a phantom validation study. *Physics in Medicine and Biology*, **2016**, 61, 2665-79	3.8	22
136	Automated Assessment of Right Ventricular Volumes and Function Using Three-Dimensional Transesophageal Echocardiography. *Ultrasound in Medicine and Biology*, **2016**, 42, 596-606	3.5	5
135	Noninvasive Diagnosis of Bladder Outlet Obstruction in Patients with Lower Urinary Tract Symptoms Using Ultrasound Decorrelation Analysis. *Journal of Urology*, **2016**, 196, 490-7	2.5	7
134	Quantitative Ultrasound for Staging of Hepatic Steatosis in Patients on Home Parenteral Nutrition Validated with Magnetic Resonance Spectroscopy: A Feasibility Study. *Ultrasound in Medicine and Biology*, **2016**, 42, 637-44	3.5	8
133	A Framework for Local Mechanical Characterization of Atherosclerotic Plaques: Combination of Ultrasound Displacement Imaging and Inverse Finite Element Analysis. *Annals of Biomedical Engineering*, **2016**, 44, 968-79	4.7	10
132	Compound Ultrasound Strain Imaging for Noninvasive Detection of (Fibro)Atheromatous Plaques: Histopathological Validation in Human Carotid Arteries. *JACC: Cardiovascular Imaging*, **2016**, 9, 1466-1467	8.4	10
131	Impact of element pitch on synthetic aperture ultrasound imaging. *Journal of Medical Ultrasonics (2001)*, **2016**, 43, 317-25	1.4	5

130	Validation of Noninvasive In Vivo Compound Ultrasound Strain Imaging Using Histologic Plaque Vulnerability Features. *Stroke*, **2016**, 47, 2770-2775	6.7	33
129	Plane-Wave Compounding in Automated Breast Volume Scanning: A Phantom-Based Study. *Ultrasound in Medicine and Biology*, **2016**, 42, 2493-503	3.5	9
128	Ultrasound Imaging for Analyzing Lateral Tongue Movements during Mastication in Adults with Cerebral Palsy Compared with Adults without Oral Motor Disabilities. *Ultrasound in Medicine and Biology*, **2015**, 41, 1784-93	3.5	10
127	Carotid plaque elasticity estimation using ultrasound elastography, MRI, and inverse FEA - A numerical feasibility study. *Medical Engineering and Physics*, **2015**, 37, 801-7	2.4	11
126	Development of a noninvasive method to diagnose bladder outlet obstruction based on decorrelation of sequential ultrasound images. *Urology*, **2015**, 85, 648-52	1.6	6
125	Regional ventricular performance and exercise training in children and young adults after repair of tetralogy of Fallot: randomized controlled pilot study. *Circulation: Cardiovascular Imaging*, **2015**, 8,	3.9	16
124	Serotonin transporter is not required for the development of severe pulmonary hypertension in the Sugen hypoxia rat model. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2015**, 309, L1164-73	5.8	11
123	2D versus 3D cross-correlation-based radial and circumferential strain imaging in a 3D atherosclerotic carotid artery model using ultrafast plane wave ultrasound **2015**,		2
122	Noninvasive estimation of the pressure profile in the male urethra using ultrasound imaging. *Medical Physics*, **2015**, 42, 1745-52	4.4	2
121	**2015**,		3
120	Dependence of ultrasound decorrelation on urine scatter particle concentration for a non-invasive diagnosis of bladder outlet obstruction. *Neurourology and Urodynamics*, **2015**, 34, 781-6	2.3	3
119	Shear wave elastography for lipid content detection in transverse arterial cross-sections **2015**,		3
118	Diagnosing Bladder Outlet Obstruction Using Non-invasive Decorrelation-Based Ultrasound Imaging: A Feasibility Study in Healthy Male Volunteers. *Ultrasound in Medicine and Biology*, **2015**, 41, 3163-71	3.5	1
117	Cardiac Motion Estimation Using Ultrafast Ultrasound Imaging Tested in a Finite Element Model of Cardiac Mechanics. *Lecture Notes in Computer Science*, **2015**, 207-214	0.9	9
116	Fast 2-D ultrasound strain imaging: the benefits of using a GPU. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 207-13	3.2	10
115	Preclinical imaging in bone tissue engineering. *Tissue Engineering - Part B: Reviews*, **2014**, 20, 578-95	7.9	21
114	Long term cerebral and vascular complications after irradiation of the neck in head and neck cancer patients: a prospective cohort study: study rationale and protocol. *BMC Neurology*, **2014**, 14, 132	3.1	10
113	Early myocardial deformation abnormalities in breast cancer survivors. *Breast Cancer Research and Treatment*, **2014**, 146, 127-35	4.4	9

112	Layer-specific radiofrequency ultrasound-based strain analysis in a porcine model of ischemic cardiomyopathy validated by a geometric model. *Ultrasound in Medicine and Biology*, **2014**, 40, 378-88	3.5	5
111	Correlation-based discrimination between cardiac tissue and blood for segmentation of the left ventricle in 3-D echocardiographic images. *Ultrasound in Medicine and Biology*, **2014**, 40, 596-610	3.5	5
110	Ultrafast vascular strain compounding using plane wave transmission. *Journal of Biomechanics*, **2014**, 47, 815-23	2.9	49
109	Estimation of urinary flow velocity in models of obstructed and unobstructed urethras by decorrelation of ultrasound radiofrequency signals. *Ultrasound in Medicine and Biology*, **2014**, 40, 938-46	3.5	8
108	New developments in paediatric cardiac functional ultrasound imaging. *Journal of Medical Ultrasonics (2001)*, **2014**, 41, 279-90	1.4	4
107	Increased prevalence of testicular adrenal rest tumours during adolescence in congenital adrenal hyperplasia. *Hormone Research in Paediatrics*, **2014**, 82, 238-44	3.3	30
106	Performance evaluation of compounding and directional beamforming techniques for carotid strain imaging using plane wave transmissions **2014**,		1
105	Fast 2-D ultrasound strain imaging: the benefits of using a GPU. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 207-213	3.2	8
104	Enhancing the performance of lateral shear strain estimation by using 2-D strain imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 756-64	3.2	1
103	. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 756-764	3.2	7
102	Progression of carotid intima media thickness after radiotherapy: a long-term prospective cohort study. *Radiotherapy and Oncology*, **2014**, 113, 359-63	5.3	25
101	Magnetic-based closed-loop control of paramagnetic microparticles using ultrasound feedback **2014**,		30
100	Cardiological Ultrasound Imaging. *Current Pharmaceutical Design*, **2014**, 20, 6150-61	3.3	6
99	Fetal aortic distensibility, compliance and pulse pressure assessment during the second half of pregnancy. *Ultrasound in Medicine and Biology*, **2013**, 39, 1966-75	3.5	9
98	Noninvasive 2-dimensional monitoring of strain in the detrusor muscle in patients with lower urinary tract symptoms using ultrasound strain imaging. *Journal of Urology*, **2013**, 189, 1402-8	2.5	6
97	Noninvasive vascular displacement estimation for relative elastic modulus reconstruction in transversal imaging planes. *Sensors*, **2013**, 13, 3341-57	3.8	17
96	The impact of variability in ultrasound settings on the measured echolucency of the carotid intima-media. *Journal of Hypertension*, **2013**, 31, 1861-7	1.9	10
95	Myocardial 2D strain echocardiography and cardiac biomarkers in children during and shortly after anthracycline therapy for acute lymphoblastic leukaemia (ALL): a prospective study. *European Heart Journal Cardiovascular Imaging*, **2013**, 14, 562-9	4.1	70

94	Cardiac evaluation in children with Prader-Willi syndrome. *Acta Paediatrica, International Journal of Paediatrics*, **2012**, 101, e225-31	3.1	9
93	Transcutaneous vs. intraoperative quantitative ultrasound for staging bovine hepatic steatosis. *Ultrasound in Medicine and Biology*, **2012**, 38, 1404-13	3.5	18
92	Noninvasive estimation of the blood pressure waveform in the carotid artery using continuous finger blood pressure monitoring. *Ultrasound in Medicine and Biology*, **2012**, 38, 1998-2006	3.5	3
91	Estimating cyclic shear strain in the common carotid artery using radiofrequency ultrasound. *Ultrasound in Medicine and Biology*, **2012**, 38, 2229-37	3.5	28
90	Persistent reduction in left ventricular strain using two-dimensional speckle-tracking echocardiography after balloon valvuloplasty in children with congenital valvular aortic stenosis. *Journal of the American Society of Echocardiography*, **2012**, 25, 473-85	5.8	21
89	Abnormal two-dimensional strain echocardiography findings in children with congenital valvar aortic stenosis. *Ultraschall in Der Medizin*, **2012**, 33, E283-E292	3.8	10
88	Estimation of longitudinal shear strain in the carotid arterial wall using ultrasound radiofrequency data. *Ultraschall in Der Medizin*, **2012**, 33, E275-E282	3.8	7
87	**2012**,		1
86	Effect of skin thickness on target motion during needle insertion into soft-tissue phantoms **2012**,		7
85	Synchronicity of systolic deformation in healthy pediatric and young adult subjects: a two-dimensional strain echocardiography study. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 302, H196-205	5.2	17
84	Reference values for myocardial two-dimensional strain echocardiography in a healthy pediatric and young adult cohort. *Journal of the American Society of Echocardiography*, **2011**, 24, 625-36	5.8	156
83	Ultrasound image analysis offers the opportunity to predict plasma progesterone concentrations in the estrous cycle in cows: a feasibility study. *Animal Reproduction Science*, **2011**, 127, 7-15	2.1	8
82	A response to: A critical review and uniformized representation of statistical distributions modeling the ultrasound echo envelope. *Ultrasound in Medicine and Biology*, **2011**, 37, 674; author reply 675-6	3.5	
81	Predicting target displacements using ultrasound elastography and finite element modeling. *IEEE Transactions on Biomedical Engineering*, **2011**, 58, 3143-55	5	23
80	Early detection of myocardial dysfunction in children with mitochondrial disease: An ultrasound and two-dimensional strain echocardiography study. *Mitochondrion*, **2011**, 11, 405-12	4.9	14
79	Correlation based 3-D segmentation of the left ventricle in pediatric echocardiographic images using radio-frequency data. *Ultrasound in Medicine and Biology*, **2011**, 37, 1409-20	3.5	15
78	Three-dimensional cardiac strain imaging in healthy children using RF-data. *Ultrasound in Medicine and Biology*, **2011**, 37, 1399-408	3.5	37
77	Target motion predictions for pre-operative planning during needle-based interventions. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 5380-5	0.9	4

76	Vascular ultrasound for atherosclerosis imaging. *Interface Focus*, **2011**, 1, 565-75	3.9	87
75	Noninvasive Carotid Elastography **2011**, 341-353		
74	Interactive vs. automatic ultrasound image segmentation methods for staging hepatic lipidosis. *Ultrasonic Imaging*, **2010**, 32, 143-53	1.9	10
73	Noninvasive detection of hepatic lipidosis in dairy cows with calibrated ultrasonographic image analysis. *Journal of Dairy Science*, **2010**, 93, 2952-65	4	25
72	Methodical study on the estimation of strain in shearing and rotating structures using radio frequency ultrasound based on 1-D and 2-D strain estimation techniques. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2010**, 57, 855-65	3.2	10
71	Dynamic imaging of skeletal muscle contraction in three orthogonal directions. *Journal of Applied Physiology*, **2010**, 109, 906-15	3.7	57
70	A multicenter, long-term study on arrhythmias in children with Ebstein anomaly. *Pediatric Cardiology*, **2010**, 31, 229-33	2.1	42
69	An angular compounding technique using displacement projection for noninvasive ultrasound strain imaging of vessel cross-sections. *Ultrasound in Medicine and Biology*, **2010**, 36, 1947-56	3.5	33
68	Myocardial strain and strain rate in monitoring subclinical heart failure in asymptomatic long-term survivors of childhood cancer. *Ultrasound in Medicine and Biology*, **2010**, 36, 1783-91	3.5	46
67	Comparison of One-Dimensional and Two-Dimensional Least-Squares Strain Estimators for Phased Array Displacement Data. *Ultrasonic Imaging*, **2009**, 31, 1-16	1.9	19
66	High quality non-invasive full 2D strain tensor imaging using a beam steered linear array ultrasound transducer **2009**,		1
65	3D cardiac segmentation using temporal correlation of radio frequency ultrasound data. *Lecture Notes in Computer Science*, **2009**, 12, 927-34	0.9	5
64	A method to calculate arterial and venous saturation from near infrared spectroscopy (NIRS). *Advances in Experimental Medicine and Biology*, **2009**, 645, 135-40	3.6	12
63	Comparison of one-dimensional and two-dimensional least-squares strain estimators for phased array displacement data. *Ultrasonic Imaging*, **2009**, 31, 1-16	1.9	23
62	Noninvasive carotid strain imaging using angular compounding at large beam steered angles: validation in vessel phantoms. *IEEE Transactions on Medical Imaging*, **2009**, 28, 872-80	11.7	84
61	Quantitative assessment of oral orbicular muscle deformation after cleft lip reconstruction: an ultrasound elastography study. *IEEE Transactions on Medical Imaging*, **2009**, 28, 1217-22	11.7	23
60	Quantitative gray-scale analysis in skeletal muscle ultrasound: a comparison study of two ultrasound devices. *Muscle and Nerve*, **2009**, 39, 781-6	3.4	87
59	Performance evaluation of methods for two-dimensional displacement and strain estimation using ultrasound radio frequency data. *Ultrasound in Medicine and Biology*, **2009**, 35, 796-812	3.5	147

58	Performance of two dimensional displacement and strain estimation techniques using a phased array transducer. *Ultrasound in Medicine and Biology*, **2009**, 35, 2031-41	3.5	19
57	Interobserver, intraobserver and intrapatient reliability scores of myocardial strain imaging with 2-d echocardiography in patients treated with anthracyclines. *Ultrasound in Medicine and Biology*, **2009**, 35, 697-704	3.5	41
56	Computer-aided ultrasound diagnosis of hepatic steatosis. *IFMBE Proceedings*, **2009**, 843-847	0.2	2
55	Computer-aided B-mode ultrasound diagnosis of hepatic steatosis: a feasibility study. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2008**, 55, 1343-54	3.2	40
54	Non-invasive staging of hepatic steatosis using computer-aided ultrasound diagnosis **2008**,		2
53	Modeling envelope statistics of blood and myocardium for segmentation of echocardiographic images. *Ultrasound in Medicine and Biology*, **2008**, 34, 674-80	3.5	33
52	Noninvasive two-dimensional strain imaging of arteries: validation in phantoms and preliminary experience in carotid arteries in vivo. *Ultrasound in Medicine and Biology*, **2007**, 33, 530-40	3.5	122
51	Objective performance testing and quality assurance of medical ultrasound equipment. *Ultrasound in Medicine and Biology*, **2007**, 33, 460-71	3.5	100
50	Segmentation of the heart muscle in 3-D pediatric echocardiographic images. *Ultrasound in Medicine and Biology*, **2007**, 33, 1453-62	3.5	30
49	Quantitative ultrasound imaging of healthy and reconstructed cleft lip: a feasibility study. *Cleft Palate-Craniofacial Journal*, **2007**, 44, 261-8	1.9	12
48	Ebstein's anomaly: factors associated with death in childhood and adolescence: a multi-centre, long-term study. *European Heart Journal*, **2007**, 28, 2661-6	9.5	24
47	New reference values for echocardiographic dimensions of healthy Dutch children. *European Journal of Echocardiography*, **2006**, 7, 113-21		27
46	INTRAVASCULAR ULTRASOUND PALPOGRAPHY: A NEW METHOD FOR THE DETECTION OF THE VULNERABLE PLAQUE. *Journal of Mechanics in Medicine and Biology*, **2006**, 06, 35-38	0.7	
45	Improvement of heart function after balloon dilation of congenital valvar aortic stenosis: a pilot study with ultrasound tissue Doppler and strain rate imaging. *Ultrasound in Medicine and Biology*, **2006**, 32, 1123-8	3.5	17
44	Modeling ultrasound contrast measurement of blood flow and perfusion in biological tissue. *Ultrasound in Medicine and Biology*, **2005**, 31, 279-85	3.5	11
43	Three-dimensional palpography of human coronary arteries. Ex vivo validation and in-patient evaluation. *Herz*, **2005**, 30, 125-33	2.6	41
42	Intravascular Ultrasound Elastography: A Clinician's Tool for Assessing Vulnerability and Material Composition of Plaques. *Studies in Health Technology and Informatics*, **2005**, 113, 75-96	0.5	16
41	Incidence of high-strain patterns in human coronary arteries: assessment with three-dimensional intravascular palpography and correlation with clinical presentation. *Circulation*, **2004**, 109, 2716-9	16.7	127

40	A finite element model for performing intravascular ultrasound elastography of human atherosclerotic coronary arteries. *Ultrasound in Medicine and Biology*, **2004**, 30, 803-13	3.5	54
39	Finite element modeling and intravascular ultrasound elastography of vulnerable plaques: parameter variation. *Ultrasonics*, **2004**, 42, 723-9	3.5	66
38	Fully automatic luminal contour segmentation in intracoronary ultrasound imaging--a statistical approach. *IEEE Transactions on Medical Imaging*, **2004**, 23, 554-66	11.7	99
37	Fully automatic contour detection in intravascular ultrasound imaging **2004**, 5373, 108		
36	Catheter-Based Closure of a Coronary Aneurysm **2004**, 151-163		
35	Characterizing vulnerable plaque features with intravascular elastography. *Circulation*, **2003**, 108, 2636-41	16.7	261
34	Intravascular Elastography. *BMUS Bulletin*, **2003**, 11, 12-16		
33	Intravascular palpography for high-risk vulnerable plaque assessment. *Herz*, **2003**, 28, 488-95	2.6	56
32	Quantitative IVUS blood flow: validation in vitro, in animals and in patients. *Ultrasound in Medicine and Biology*, **2003**, 29, 507-15	3.5	18
31	Intravascular elastography: from bench to bedside. *Journal of Interventional Cardiology*, **2003**, 16, 253-9	1.8	25
30	Inflammation and atherosclerosis: mechanisms underlying vulnerable plaque. *Journal of Interventional Cardiology*, **2003**, 16, 107-13	1.8	19
29	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. *Circulation*, **2003**, 108, 1664-72	16.7	1985
28	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part II. *Circulation*, **2003**, 108, 1772-8	16.7	886
27	Dynamic noise correction for IVUS quantitative volume blood flow: methods and numerical validation. *Ultrasound in Medicine and Biology*, **2002**, 28, 1053-60	3.5	6
26	Intravascular ultrasound elastography: an overview. *Ultrasonics*, **2002**, 40, 859-65	3.5	101
25	Effect of temperature increase and freezing on intravascular elastography. *Ultrasonics*, **2002**, 40, 879-81	3.5	20
24	Identification of atherosclerotic plaque components with intravascular ultrasound elastography in vivo: a Yucatan pig study. *Circulation*, **2002**, 105, 1627-30	16.7	198
23	Morphological and mechanical information of coronary arteries obtained with intravascular elastography; feasibility study in vivo. *European Heart Journal*, **2002**, 23, 405-13	9.5	113

22	Elastography. *European Journal of Cardiovascular Prevention and Rehabilitation*, **2002**, 9, 237-245		1
21	. *European Journal of Cardiovascular Prevention and Rehabilitation*, **2002**, 9, 237-245		11
20	Decorrelation-based blood flow velocity estimation: effect of spread of flow velocity, linear flow velocity gradients, and parabolic flow. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2002**, 49, 705-14	3.2	14
19	Technical Principles of Intravascular Ultrasonography **2002**, 661-666		
18	Advancing intravascular ultrasonic palpation toward clinical applications. *Ultrasound in Medicine and Biology*, **2001**, 27, 1471-80	3.5	77
17	Vascular plaque characterization using intravascular ultrasound elastography and NIR Raman spectroscopy in vitro **2000**,		2
16	Vascular tissue characterisation with IVUS elastography. *Ultrasonics*, **2000**, 38, 387-90	3.5	16
15	Angle matching in intravascular elastography. *Ultrasonics*, **2000**, 38, 417-23	3.5	15
14	Intraluminal ultrasonic palpation: assessment of local and cross-sectional tissue stiffness. *Ultrasound in Medicine and Biology*, **2000**, 26, 385-96	3.5	72
13	Characterization of plaque components and vulnerability with intravascular ultrasound elastography. *Physics in Medicine and Biology*, **2000**, 45, 1465-75	3.8	133
12	Characterization of plaque components with intravascular ultrasound elastography in human femoral and coronary arteries in vitro. *Circulation*, **2000**, 102, 617-23	16.7	304
11	Echo decorrelation from displacement gradients. *Ultrasonics*, **1998**, 36, 661-666	3.5	
10	Intravascular imaging. *Ultrasonics*, **1998**, 36, 625-8	3.5	5
9	Intravascular ultrasound elastography: assessment and imaging of elastic properties of diseased arteries and vulnerable plaque. *European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology*, **1998**, 7, 219-24		59
8	Intravascular ultrasound elastography in human arteries: initial experience in vitro. *Ultrasound in Medicine and Biology*, **1998**, 24, 401-8	3.5	155
7	Intravascular ultrasound elastography. *Ultraschall in Der Medizin*, **1998**, 19, 196-201	3.8	31
6	Elastic and acoustic properties of vessel mimicking material for elasticity imaging. *Ultrasonic Imaging*, **1997**, 19, 112-26	1.9	52
5	Intravascular elasticity imaging using ultrasound: feasibility studies in phantoms. *Ultrasound in Medicine and Biology*, **1997**, 23, 735-46	3.5	162

4	Performance of time delay estimation methods for small time shifts in ultrasonic signals. *Ultrasonics*, **1997**, 35, 263-74	3.5	23
3	Ultrasonic spectroscopy of the porcine eye lens. *Ultrasound in Medicine and Biology*, **1994**, 20, 967-74	3.5	10
2	Relation between local acoustic parameters and protein distribution in human and porcine eye lenses. *Experimental Eye Research*, **1994**, 59, 617-27	3.7	31
1	Acoustic velocity and attenuation of eye tissues at 20 MHz. *Ultrasound in Medicine and Biology*, **1994**, 20, 471-80	3.5	39