

Chris L De Korte

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3347361/chris-l-de-korte-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. <i>Circulation</i> , 2003 , 108, 1664-72	16.7	1985
200	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part II. <i>Circulation</i> , 2003 , 108, 1772-8	16.7	886
199	Characterization of plaque components with intravascular ultrasound elastography in human femoral and coronary arteries in vitro. <i>Circulation</i> , 2000 , 102, 617-23	16.7	304
198	Characterizing vulnerable plaque features with intravascular elastography. <i>Circulation</i> , 2003 , 108, 2636-41	16.7	261
197	Identification of atherosclerotic plaque components with intravascular ultrasound elastography in vivo: a Yucatan pig study. <i>Circulation</i> , 2002 , 105, 1627-30	16.7	198
196	Intravascular elasticity imaging using ultrasound: feasibility studies in phantoms. <i>Ultrasound in Medicine and Biology</i> , 1997 , 23, 735-46	3.5	162
195	Reference values for myocardial two-dimensional strain echocardiography in a healthy pediatric and young adult cohort. <i>Journal of the American Society of Echocardiography</i> , 2011 , 24, 625-36	5.8	156
194	Intravascular ultrasound elastography in human arteries: initial experience in vitro. <i>Ultrasound in Medicine and Biology</i> , 1998 , 24, 401-8	3.5	155
193	Performance evaluation of methods for two-dimensional displacement and strain estimation using ultrasound radio frequency data. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 796-812	3.5	147
192	Characterization of plaque components and vulnerability with intravascular ultrasound elastography. <i>Physics in Medicine and Biology</i> , 2000 , 45, 1465-75	3.8	133
191	Incidence of high-strain patterns in human coronary arteries: assessment with three-dimensional intravascular palpography and correlation with clinical presentation. <i>Circulation</i> , 2004 , 109, 2716-9	16.7	127
190	Noninvasive two-dimensional strain imaging of arteries: validation in phantoms and preliminary experience in carotid arteries in vivo. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 530-40	3.5	122
189	Morphological and mechanical information of coronary arteries obtained with intravascular elastography; feasibility study in vivo. <i>European Heart Journal</i> , 2002 , 23, 405-13	9.5	113
188	Intravascular ultrasound elastography: an overview. <i>Ultrasonics</i> , 2002 , 40, 859-65	3.5	101
187	Objective performance testing and quality assurance of medical ultrasound equipment. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 460-71	3.5	100
186	Fully automatic luminal contour segmentation in intracoronary ultrasound imaging--a statistical approach. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 554-66	11.7	99
185	Quantitative gray-scale analysis in skeletal muscle ultrasound: a comparison study of two ultrasound devices. <i>Muscle and Nerve</i> , 2009 , 39, 781-6	3.4	87

184	Vascular ultrasound for atherosclerosis imaging. <i>Interface Focus</i> , 2011 , 1, 565-75	3.9	87
183	Noninvasive carotid strain imaging using angular compounding at large beam steered angles: validation in vessel phantoms. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 872-80	11.7	84
182	Advancing intravascular ultrasonic palpation toward clinical applications. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 1471-80	3.5	77
181	Intraluminal ultrasonic palpation: assessment of local and cross-sectional tissue stiffness. <i>Ultrasound in Medicine and Biology</i> , 2000 , 26, 385-96	3.5	72
180	Myocardial 2D strain echocardiography and cardiac biomarkers in children during and shortly after anthracycline therapy for acute lymphoblastic leukaemia (ALL): a prospective study. <i>European Heart Journal Cardiovascular Imaging</i> , 2013 , 14, 562-9	4.1	70
179	Finite element modeling and intravascular ultrasound elastography of vulnerable plaques: parameter variation. <i>Ultrasonics</i> , 2004 , 42, 723-9	3.5	66
178	Intravascular ultrasound elastography: assessment and imaging of elastic properties of diseased arteries and vulnerable plaque. <i>European Journal of Ultrasound: Official Journal of the European Federation of Societies for Ultrasound in Medicine and Biology</i> , 1998 , 7, 219-24		59
177	Dynamic imaging of skeletal muscle contraction in three orthogonal directions. <i>Journal of Applied Physiology</i> , 2010 , 109, 906-15	3.7	57
176	Automated measurement of fetal head circumference using 2D ultrasound images. <i>PLoS ONE</i> , 2018 , 13, e0200412	3.7	56
175	Intravascular palpography for high-risk vulnerable plaque assessment. <i>Herz</i> , 2003 , 28, 488-95	2.6	56
174	A finite element model for performing intravascular ultrasound elastography of human atherosclerotic coronary arteries. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 803-13	3.5	54
173	Respiratory muscle ultrasonography: methodology, basic and advanced principles and clinical applications in ICU and ED patients-a narrative review. <i>Intensive Care Medicine</i> , 2020 , 46, 594-605	14.5	53
172	Elastic and acoustic properties of vessel mimicking material for elasticity imaging. <i>Ultrasonic Imaging</i> , 1997 , 19, 112-26	1.9	52
171	Ultrafast vascular strain compounding using plane wave transmission. <i>Journal of Biomechanics</i> , 2014 , 47, 815-23	2.9	49
170	Myocardial strain and strain rate in monitoring subclinical heart failure in asymptomatic long-term survivors of childhood cancer. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1783-91	3.5	46
169	A multicenter, long-term study on arrhythmias in children with Ebstein anomaly. <i>Pediatric Cardiology</i> , 2010 , 31, 229-33	2.1	42
168	Interobserver, intraobserver and inpatient reliability scores of myocardial strain imaging with 2-d echocardiography in patients treated with anthracyclines. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 697-704	3.5	41
167	Three-dimensional palpography of human coronary arteries. Ex vivo validation and in-patient evaluation. <i>Herz</i> , 2005 , 30, 125-33	2.6	41

166	Computer-aided B-mode ultrasound diagnosis of hepatic steatosis: a feasibility study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008 , 55, 1343-54	3.2	40
165	Acoustic velocity and attenuation of eye tissues at 20 MHz. <i>Ultrasound in Medicine and Biology</i> , 1994 , 20, 471-80	3.5	39
164	Three-dimensional cardiac strain imaging in healthy children using RF-data. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1399-408	3.5	37
163	Automated Fetal Head Detection and Circumference Estimation from Free-Hand Ultrasound Sweeps Using Deep Learning in Resource-Limited Countries. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 773-785	3.5	34
162	An angular compounding technique using displacement projection for noninvasive ultrasound strain imaging of vessel cross-sections. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 1947-56	3.5	33
161	Modeling envelope statistics of blood and myocardium for segmentation of echocardiographic images. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 674-80	3.5	33
160	Validation of Noninvasive In Vivo Compound Ultrasound Strain Imaging Using Histologic Plaque Vulnerability Features. <i>Stroke</i> , 2016 , 47, 2770-2775	6.7	33
159	Intravascular ultrasound elastography. <i>Ultraschall in Der Medizin</i> , 1998 , 19, 196-201	3.8	31
158	Relation between local acoustic parameters and protein distribution in human and porcine eye lenses. <i>Experimental Eye Research</i> , 1994 , 59, 617-27	3.7	31
157	Increased prevalence of testicular adrenal rest tumours during adolescence in congenital adrenal hyperplasia. <i>Hormone Research in Paediatrics</i> , 2014 , 82, 238-44	3.3	30
156	Magnetic-based closed-loop control of paramagnetic microparticles using ultrasound feedback 2014 ,		30
155	Segmentation of the heart muscle in 3-D pediatric echocardiographic images. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1453-62	3.5	30
154	Estimating cyclic shear strain in the common carotid artery using radiofrequency ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 2229-37	3.5	28
153	Multicore Liquid Perfluorocarbon-Loaded Multimodal Nanoparticles for Stable Ultrasound and F MRI Applied to In Vivo Cell Tracking. <i>Advanced Functional Materials</i> , 2019 , 29, 1806485	15.6	27
152	New reference values for echocardiographic dimensions of healthy Dutch children. <i>European Journal of Echocardiography</i> , 2006 , 7, 113-21		27
151	Progression of carotid intima media thickness after radiotherapy: a long-term prospective cohort study. <i>Radiotherapy and Oncology</i> , 2014 , 113, 359-63	5.3	25
150	Noninvasive detection of hepatic lipidosis in dairy cows with calibrated ultrasonographic image analysis. <i>Journal of Dairy Science</i> , 2010 , 93, 2952-65	4	25
149	Intravascular elastography: from bench to bedside. <i>Journal of Interventional Cardiology</i> , 2003 , 16, 253-9	1.8	25

148	EbsteinS anomaly: factors associated with death in childhood and adolescence: a multi-centre, long-term study. <i>European Heart Journal</i> , 2007 , 28, 2661-6	9.5	24
147	Predicting target displacements using ultrasound elastography and finite element modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 3143-55	5	23
146	Comparison of one-dimensional and two-dimensional least-squares strain estimators for phased array displacement data. <i>Ultrasonic Imaging</i> , 2009 , 31, 1-16	1.9	23
145	Quantitative assessment of oral orbicular muscle deformation after cleft lip reconstruction: an ultrasound elastography study. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1217-22	11.7	23
144	Performance of time delay estimation methods for small time shifts in ultrasonic signals. <i>Ultrasonics</i> , 1997 , 35, 263-74	3.5	23
143	Cardiac function in relation to myocardial injury in hospitalised patients with COVID-19. <i>Netherlands Heart Journal</i> , 2020 , 28, 410-417	2.2	22
142	Review: Mechanical Characterization of Carotid Arteries and Atherosclerotic Plaques. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1613-1623	3.2	22
141	Automated 3D ultrasound elastography of the breast: a phantom validation study. <i>Physics in Medicine and Biology</i> , 2016 , 61, 2665-79	3.8	22
140	Clinically-Applicable Perfluorocarbon-Loaded Nanoparticles For Photoacoustic, F Magnetic Resonance And Fluorescent Imaging. <i>Nanotheranostics</i> , 2018 , 2, 258-268	5.6	21
139	Preclinical imaging in bone tissue engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 578-95	7.9	21
138	Persistent reduction in left ventricular strain using two-dimensional speckle-tracking echocardiography after balloon valvuloplasty in children with congenital valvular aortic stenosis. <i>Journal of the American Society of Echocardiography</i> , 2012 , 25, 473-85	5.8	21
137	Effect of temperature increase and freezing on intravascular elastography. <i>Ultrasonics</i> , 2002 , 40, 879-81	3.5	20
136	Comparison of One-Dimensional and Two-Dimensional Least-Squares Strain Estimators for Phased Array Displacement Data. <i>Ultrasonic Imaging</i> , 2009 , 31, 1-16	1.9	19
135	Performance of two dimensional displacement and strain estimation techniques using a phased array transducer. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 2031-41	3.5	19
134	Inflammation and atherosclerosis: mechanisms underlying vulnerable plaque. <i>Journal of Interventional Cardiology</i> , 2003 , 16, 107-13	1.8	19
133	Transcutaneous vs. intraoperative quantitative ultrasound for staging bovine hepatic steatosis. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1404-13	3.5	18
132	Quantitative IVUS blood flow: validation in vitro, in animals and in patients. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 507-15	3.5	18
131	Optimal Endobronchial Ultrasound Strain Elastography Assessment Strategy: An Explorative Study. <i>Respiration</i> , 2019 , 97, 337-347	3.7	18

130	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. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1543-1553	3.2	17
129	Cardiovascular and metabolic risk in pediatric patients with congenital adrenal hyperplasia due to 21 hydroxylase deficiency. <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2017 , 30, 957-966	1.6	17
128	Noninvasive vascular displacement estimation for relative elastic modulus reconstruction in transversal imaging planes. <i>Sensors</i> , 2013 , 13, 3341-57	3.8	17
127	Synchronicity of systolic deformation in healthy pediatric and young adult subjects: a two-dimensional strain echocardiography study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H196-205	5.2	17
126	Improvement of heart function after balloon dilation of congenital valvar aortic stenosis: a pilot study with ultrasound tissue Doppler and strain rate imaging. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1123-8	3.5	17
125	Regional ventricular performance and exercise training in children and young adults after repair of tetralogy of Fallot: randomized controlled pilot study. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8,	3.9	16
124	Improved Plane-Wave Ultrasound Beamforming by Incorporating Angular Weighting and Coherent Compounding in Fourier Domain. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 749-765	3.2	16
123	Vascular tissue characterisation with IVUS elastography. <i>Ultrasonics</i> , 2000 , 38, 387-90	3.5	16
122	How useful is muscle ultrasound in the diagnostic workup of neuromuscular diseases?. <i>Current Opinion in Neurology</i> , 2018 , 31, 568-574	7.1	16
121	Intravascular Ultrasound Elastography: A Clinician's Tool for Assessing Vulnerability and Material Composition of Plaques. <i>Studies in Health Technology and Informatics</i> , 2005 , 113, 75-96	0.5	16
120	A Novel Automatic Digital Algorithm that Accurately Quantifies Steatosis in NAFLD on Histopathological Whole-Slide Images. <i>Cytometry Part B - Clinical Cytometry</i> , 2019 , 96, 521-528	3.4	15
119	Correlation based 3-D segmentation of the left ventricle in pediatric echocardiographic images using radio-frequency data. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 1409-20	3.5	15
118	Angle matching in intravascular elastography. <i>Ultrasonics</i> , 2000 , 38, 417-23	3.5	15
117	Potential of Contrast-Enhanced Ultrasound as a Bedside Monitoring Technique in Cerebral Perfusion: a Systematic Review. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2751-2757	3.5	14
116	Early detection of myocardial dysfunction in children with mitochondrial disease: An ultrasound and two-dimensional strain echocardiography study. <i>Mitochondrion</i> , 2011 , 11, 405-12	4.9	14
115	Decorrelation-based blood flow velocity estimation: effect of spread of flow velocity, linear flow velocity gradients, and parabolic flow. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 705-14	3.2	14
114	A Comparison Between Compounding Techniques Using Large Beam-Steered Plane Wave Imaging for Blood Vector Velocity Imaging in a Carotid Artery Model. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 1758-1771	3.2	12
113	A method to calculate arterial and venous saturation from near infrared spectroscopy (NIRS). <i>Advances in Experimental Medicine and Biology</i> , 2009 , 645, 135-40	3.6	12

112	Quantitative ultrasound imaging of healthy and reconstructed cleft lip: a feasibility study. <i>Cleft Palate-Craniofacial Journal</i> , 2007 , 44, 261-8	1.9	12
111	Carotid plaque elasticity estimation using ultrasound elastography, MRI, and inverse FEA - A numerical feasibility study. <i>Medical Engineering and Physics</i> , 2015 , 37, 801-7	2.4	11
110	Serotonin transporter is not required for the development of severe pulmonary hypertension in the Sugen hypoxia rat model. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 309, L1164-73	5.8	11
109	Predictive Value of Endobronchial Ultrasound Strain Elastography in Mediastinal Lymph Node Staging: The E-Predict Multicenter Study Results. <i>Respiration</i> , 2020 , 99, 484-492	3.7	11
108	Ultrasound Imaging of Muscle Contraction of the Tibialis Anterior in Patients with Facioscapulohumeral Dystrophy. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2537-2545	3.5	11
107	Modeling ultrasound contrast measurement of blood flow and perfusion in biological tissue. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 279-85	3.5	11
106	. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2002 , 9, 237-245		11
105	Ultrasound Imaging for Analyzing Lateral Tongue Movements during Mastication in Adults with Cerebral Palsy Compared with Adults without Oral Motor Disabilities. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1784-93	3.5	10
104	A Framework for Local Mechanical Characterization of Atherosclerotic Plaques: Combination of Ultrasound Displacement Imaging and Inverse Finite Element Analysis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 968-79	4.7	10
103	Fast 2-D ultrasound strain imaging: the benefits of using a GPU. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 207-13	3.2	10
102	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. <i>BMC Neurology</i> , 2014 , 14, 132	3.1	10
101	The impact of variability in ultrasound settings on the measured echolucency of the carotid intima-media. <i>Journal of Hypertension</i> , 2013 , 31, 1861-7	1.9	10
100	Interactive vs. automatic ultrasound image segmentation methods for staging hepatic lipidosis. <i>Ultrasonic Imaging</i> , 2010 , 32, 143-53	1.9	10
99	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. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 855-65	3.2	10
98	Abnormal two-dimensional strain echocardiography findings in children with congenital valvar aortic stenosis. <i>Ultraschall in Der Medizin</i> , 2012 , 33, E283-E292	3.8	10
97	Ultrasonic spectroscopy of the porcine eye lens. <i>Ultrasound in Medicine and Biology</i> , 1994 , 20, 967-74	3.5	10
96	Compound Ultrasound Strain Imaging for Noninvasive Detection of (Fibro)Atheromatous Plaques: Histopathological Validation in Human Carotid Arteries. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1466-1467	8.4	10
95	Vascular Shear Wave Elastography in Atherosclerotic Arteries: A Systematic Review. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 2145-2163	3.5	9

94	3-D Single Breath-Hold Shear Strain Estimation for Improved Breast Lesion Detection and Classification in Automated Volumetric Ultrasound Scanners. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1590-1599	3.2	9
93	Simultaneous Vascular Strain and Blood Vector Velocity Imaging Using High-Frequency Versus Conventional-Frequency Plane Wave Ultrasound: A Phantom Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1166-1181	3.2	9
92	Early myocardial deformation abnormalities in breast cancer survivors. <i>Breast Cancer Research and Treatment</i> , 2014 , 146, 127-35	4.4	9
91	Cardiac evaluation in children with Prader-Willi syndrome. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2012 , 101, e225-31	3.1	9
90	Fetal aortic distensibility, compliance and pulse pressure assessment during the second half of pregnancy. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 1966-75	3.5	9
89	Development of a Low-Cost Medical Ultrasound Scanner Using a Monostatic Synthetic Aperture. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 849-857	5.1	9
88	Cardiac Motion Estimation Using Ultrafast Ultrasound Imaging Tested in a Finite Element Model of Cardiac Mechanics. <i>Lecture Notes in Computer Science</i> , 2015 , 207-214	0.9	9
87	Plane-Wave Compounding in Automated Breast Volume Scanning: A Phantom-Based Study. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2493-503	3.5	9
86	Quantitative Ultrasound for Staging of Hepatic Steatosis in Patients on Home Parenteral Nutrition Validated with Magnetic Resonance Spectroscopy: A Feasibility Study. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 637-44	3.5	8
85	Estimation of urinary flow velocity in models of obstructed and unobstructed urethras by decorrelation of ultrasound radiofrequency signals. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 938-46	3.5	8
84	Fast 2-D ultrasound strain imaging: the benefits of using a GPU. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 207-213	3.2	8
83	Ultrasound image analysis offers the opportunity to predict plasma progesterone concentrations in the estrous cycle in cows: a feasibility study. <i>Animal Reproduction Science</i> , 2011 , 127, 7-15	2.1	8
82	Single finger movements in the aging hand: changes in finger independence, muscle activation patterns and tendon displacement in older adults. <i>Experimental Brain Research</i> , 2019 , 237, 1141-1154	2.3	8
81	3D quantitative breast ultrasound analysis for differentiating fibroadenomas and carcinomas smaller than 1cm. <i>European Journal of Radiology</i> , 2017 , 88, 141-147	4.7	7
80	In Vivo Blood Velocity Vector Imaging Using Adaptive Velocity Compounding in the Carotid Artery Bifurcation. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1691-1707	3.5	7
79	Longitudinal Myocardial Deformation Does Not Predict Single Ventricle Ejection Fraction Assessed by Cardiac Magnetic Resonance Imaging in Children with a Total Cavopulmonary Connection. <i>Pediatric Cardiology</i> , 2018 , 39, 283-293	2.1	7
78	Noninvasive Diagnosis of Bladder Outlet Obstruction in Patients with Lower Urinary Tract Symptoms Using Ultrasound Decorrelation Analysis. <i>Journal of Urology</i> , 2016 , 196, 490-7	2.5	7
77	A PSF-Shape-Based Beamforming Strategy for Robust 2D Motion Estimation in Ultrafast Data. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 429	2.6	7

76	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 756-764	3.2	7
75	Estimation of longitudinal shear strain in the carotid arterial wall using ultrasound radiofrequency data. <i>Ultraschall in Der Medizin</i> , 2012 , 33, E275-E282	3.8	7
74	Effect of skin thickness on target motion during needle insertion into soft-tissue phantoms 2012 ,		7
73	Development of a noninvasive method to diagnose bladder outlet obstruction based on decorrelation of sequential ultrasound images. <i>Urology</i> , 2015 , 85, 648-52	1.6	6
72	Surgical outcome in pediatric patients with Ebstein's anomaly: A multicenter, long-term study. <i>Congenital Heart Disease</i> , 2017 , 12, 32-39	3.1	6
71	Noninvasive 2-dimensional monitoring of strain in the detrusor muscle in patients with lower urinary tract symptoms using ultrasound strain imaging. <i>Journal of Urology</i> , 2013 , 189, 1402-8	2.5	6
70	Dynamic noise correction for IVUS quantitative volume blood flow: methods and numerical validation. <i>Ultrasound in Medicine and Biology</i> , 2002 , 28, 1053-60	3.5	6
69	US Attenuation for Liver Fat Quantification: An AIUM-RSNA QIBA Pulse-Echo Quantitative Ultrasound Initiative.. <i>Radiology</i> , 2022 , 210736	20.5	6
68	Cardiological Ultrasound Imaging. <i>Current Pharmaceutical Design</i> , 2014 , 20, 6150-61	3.3	6
67	Multi-Plane Ultrafast Compound 3D Strain Imaging: Experimental Validation in a Carotid Bifurcation Phantom. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 637	2.6	6
66	Automated Assessment of Right Ventricular Volumes and Function Using Three-Dimensional Transesophageal Echocardiography. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 596-606	3.5	5
65	Quasi-Static Elastography and Ultrasound Plane-Wave Imaging: The Effect of Beam-Forming Strategies on the Accuracy of Displacement Estimations. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 319	2.6	5
64	Layer-specific radiofrequency ultrasound-based strain analysis in a porcine model of ischemic cardiomyopathy validated by a geometric model. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 378-88	3.5	5
63	Correlation-based discrimination between cardiac tissue and blood for segmentation of the left ventricle in 3-D echocardiographic images. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 596-610	3.5	5
62	photoacoustics and high frequency ultrasound imaging of mechanical high intensity focused ultrasound (HIFU) ablation. <i>Biomedical Optics Express</i> , 2017 , 8, 2235-2244	3.5	5
61	3D cardiac segmentation using temporal correlation of radio frequency ultrasound data. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 927-34	0.9	5
60	Intravascular imaging. <i>Ultrasonics</i> , 1998 , 36, 625-8	3.5	5
59	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. <i>American Heart Journal</i> , 2020 , 219, 89-98	4.9	5

58	Impact of element pitch on synthetic aperture ultrasound imaging. <i>Journal of Medical Ultrasonics</i> (2001), 2016 , 43, 317-25	1.4	5
57	Cardiac function in paediatric patients with congenital adrenal hyperplasia due to 21 hydroxylase deficiency. <i>Clinical Endocrinology</i> , 2018 , 88, 364-371	3.4	5
56	Computer-aided detection of fasciculations and other movements in muscle with ultrasound: Development and clinical application. <i>Clinical Neurophysiology</i> , 2018 , 129, 2567-2576	4.3	5
55	Quantification of Macrocirculation and Microcirculation in Brain Using Ultrasound Perfusion Imaging. <i>Acta Neurochirurgica Supplementum</i> , 2018 , 126, 115-120	1.7	4
54	New developments in paediatric cardiac functional ultrasound imaging. <i>Journal of Medical Ultrasonics</i> (2001), 2014 , 41, 279-90	1.4	4
53	Target motion predictions for pre-operative planning during needle-based interventions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5380-5	0.9	4
52	Tendon displacements during voluntary and involuntary finger movements. <i>Journal of Biomechanics</i> , 2018 , 67, 62-68	2.9	4
51	Photoacoustic and high-frequency ultrasound imaging of systemic sclerosis patients. <i>Arthritis Research and Therapy</i> , 2021 , 23, 22	5.7	4
50	Strain imaging of the lateral collateral ligament using high frequency and conventional ultrasound imaging: An ex-vivo comparison. <i>Journal of Biomechanics</i> , 2018 , 73, 233-237	2.9	3
49	Comparison Study of Low-Cost Ultrasound Devices for Estimation of Gestational Age in Resource-Limited Countries. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 2250-2260	3.5	3
48	2015 ,		3
47	Dependence of ultrasound decorrelation on urine scatter particle concentration for a non-invasive diagnosis of bladder outlet obstruction. <i>Neurourology and Urodynamics</i> , 2015 , 34, 781-6	2.3	3
46	Shear wave elastography for lipid content detection in transverse arterial cross-sections 2015 ,		3
45	Noninvasive estimation of the blood pressure waveform in the carotid artery using continuous finger blood pressure monitoring. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 1998-2006	3.5	3
44	Quantitative Evaluation of an Automated Cone-Based Breast Ultrasound Scanner for MRI-3D US Image Fusion. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 1229-1239	11.7	3
43	Assessing COVID-19 pneumonia-Clinical extension and risk with point-of-care ultrasound: A multicenter, prospective, observational study. <i>Journal of the American College of Emergency Physicians Open</i> , 2021 , 2, e12429	1.6	3
42	Is 2D speckle tracking echocardiography useful for detecting and monitoring myocardial dysfunction in adult m.3243A>G carriers? - a retrospective pilot study. <i>Journal of Inherited Metabolic Disease</i> , 2017 , 40, 247-259	5.4	2
41	3-D Strain Imaging of the Carotid Bifurcation: Methods and in-Human Feasibility. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1675-1690	3.5	2

40	Myocardial 2D Strain During Long-Term (>5 Years) Follow-Up of Childhood Survivors of Acute Lymphoblastic Leukemia Treated With Anthracyclines. <i>American Journal of Cardiology</i> , 2020 , 127, 163-168	3.8	2
39	Paediatric Ebstein's anomaly: how clinical presentation predicts mortality. <i>Archives of Disease in Childhood</i> , 2018 , 103, 859-863	2.2	2
38	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
37	Noninvasive estimation of the pressure profile in the male urethra using ultrasound imaging. <i>Medical Physics</i> , 2015 , 42, 1745-52	4.4	2
36	Non-invasive staging of hepatic steatosis using computer-aided ultrasound diagnosis 2008 ,		2
35	Vascular plaque characterization using intravascular ultrasound elastography and NIR Raman spectroscopy in vitro 2000 ,		2
34	Multicomponent material property characterization of atherosclerotic human carotid arteries through a Bayesian Optimization based inverse finite element approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 104996	4.1	2
33	Computer-aided ultrasound diagnosis of hepatic steatosis. <i>IFMBE Proceedings</i> , 2009 , 843-847	0.2	2
32	Point Spread Function Formation in Plane-Wave Imaging: A Theoretical Approximation in Fourier Migration. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 296-307	3.2	2
31	3D Ultrasound Strain Imaging of Puborectalis Muscle. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 569-584	3.5	2
30	Understanding the Contrast Mechanism in Rotation Elastogram: A Parametric Study. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1860-1872	3.5	2
29	Multicomponent Mechanical Characterization of Atherosclerotic Human Coronary Arteries: An Experimental and Computational Hybrid Approach. <i>Frontiers in Physiology</i> , 2021 , 12, 733009	4.6	2
28	Repeatability of Bolus Kinetics Ultrasound Perfusion Imaging for the Quantification of Cerebral Blood Flow. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2758-2764	3.5	1
27	Diagnosing Bladder Outlet Obstruction Using Non-invasive Decorrelation-Based Ultrasound Imaging: A Feasibility Study in Healthy Male Volunteers. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 3163-71	3.5	1
26	Performance evaluation of compounding and directional beamforming techniques for carotid strain imaging using plane wave transmissions 2014 ,		1
25	Enhancing the performance of lateral shear strain estimation by using 2-D strain imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 756-64	3.2	1
24	High quality non-invasive full 2D strain tensor imaging using a beam steered linear array ultrasound transducer 2009 ,		1
23	2012 ,		1

22	Elastography. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2002 , 9, 237-245		1
21	Ultrasound-guided breast biopsy of ultrasound occult lesions using multimodality image co-registration and tissue displacement tracking 2019 ,		1
20	Tissue Doppler Imaging of the Diaphragm: A Novel Approach but Too Early for Clinical Implementation?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 202, 1741-1742	10.2	1
19	Asymptomatic systolic dysfunction on contemporary echocardiography in anthracycline-treated long-term childhood cancer survivors: a systematic review. <i>Journal of Cancer Survivorship</i> , 2021 , 1	5.1	1
18	Echocardiography protocol for early detection of cardiac dysfunction in childhood cancer survivors in the multicenter DCCSS LATER 2 CARD study: Design, feasibility, and reproducibility. <i>Echocardiography</i> , 2021 , 38, 951-963	1.5	1
17	Three-dimensional quantitative muscle ultrasound in a healthy population. <i>Muscle and Nerve</i> , 2021 , 64, 199-205	3.4	1
16	3-D Ultrasound Elastography Reconstruction Using Acoustically Transparent Pressure Sensor on Robotic Arm. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021 , 3, 265-268	3.1	1
15	Optimization of transmission and reconstruction parameters in angular displacement compounding using plane wave ultrasound. <i>Physics in Medicine and Biology</i> , 2020 , 65, 085007	3.8	0
14	Accuracy and Reproducibility of Endoscopic Ultrasound B-Mode Features for Observer-Based Lymph Nodal Malignancy Prediction. <i>Respiration</i> , 2021 , 100, 1088-1096	3.7	0
13	Three-Dimensional Model-Based Segmentation in Echocardiography Using High Temporal Tissue and Blood Flow Information. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2033-2044	3.5	
12	Production and clinical evaluation of breast lesion skin markers for automated three-dimensional ultrasonography of the breast: a pilot study. <i>European Radiology</i> , 2020 , 30, 3356-3362	8	
11	A response to: A critical review and uniformized representation of statistical distributions modeling the ultrasound echo envelope. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 674; author reply 675-6	3.5	
10	Echo decorrelation from displacement gradients. <i>Ultrasonics</i> , 1998 , 36, 661-666	3.5	
9	INTRAVASCULAR ULTRASOUND PALPOGRAPHY: A NEW METHOD FOR THE DETECTION OF THE VULNERABLE PLAQUE. <i>Journal of Mechanics in Medicine and Biology</i> , 2006 , 06, 35-38	0.7	
8	Intravascular Elastography. <i>BMUS Bulletin</i> , 2003 , 11, 12-16		
7	Fully automatic contour detection in intravascular ultrasound imaging 2004 , 5373, 108		
6	Technical Principles of Intravascular Ultrasonography 2002 , 661-666		
5	Catheter-Based Closure of a Coronary Aneurysm 2004 , 151-163		

4 Noninvasive Carotid Elastography **2011**, 341-353

3 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

2 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

1 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}