Jean-luc Gennisson

List of Publications by Year
in descending order

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179 papers	11,760 citations	31902 53 h-index	29081 104 g-index
218 all docs	218 docs citations	218 times ranked	8047 citing authors

#	Article	IF	Citations
1	Challenges and Perspectives of the Hybridization of PET with Functional MRI or Ultrasound for Neuroimaging. Neuroscience, 2021, 474, 80-93.	1.1	10
2	Elastography of the Kidney. , 2021, , 227-238.		0
3	Reply to â€˜Letter to the editor: is maximal diaphragm tissue velocity suited for the assessment of diaphragm contractility?â€™. Journal of Physiology, 2021, 599, 2343-2344.	1.3	0
4	Diagnostic Accuracy of Four Levels of Manual Compression Applied in Supersonic Shear Wave Elastography of the Breast. Academic Radiology, 2021, 28, 481-486.	1.3	13
5	Tumor Solid Stress: Assessment with MR Elastography under Compression of Patient-Derived Hepatocellular Carcinomas and Cholangiocarcinomas Xenografted in Mice. Cancers, 2021, 13, 1891.	1.7	12
6	Ultrasound monitoring of a deformable tongue-food gel system during uniaxial compressionâ€“an in vitro study. Innovative Food Science and Emerging Technologies, 2021, 70, 102695.	2.7	5
7	Acousto-elasticity of transversely isotropic incompressible soft tissues: characterization of skeletal striated muscle. Physics in Medicine and Biology, 2021, 66, 145009.	1.6	18
8	Refinement of the Acoustoelastic Theory in TI Quasi-Incompressible Media for Robust Muscle Nonlinear Elasticity Quantification. , 2021, , .		0
9	Adaptive compensation of TGC effects in contrast-free ultrasensitive ultrasound Doppler imaging for improved resistivity index map visualization. , 2021, , .		1
10	Direct in plane elastic anisotropy factor quantification with inclined push beams in muscles. , 2021, , .		1
11	Poor Correlation between Diaphragm Thickening Fraction and Transdiaphragmatic Pressure in Mechanically Ventilated Patients and Healthy Subjects. Anesthesiology, 2021, , .	1.3	23
12	Acoustoelasticity in transversely isotropic soft tissues: Quantification of muscle nonlinear elasticity. Journal of the Acoustical Society of America, 2021, 150, 4489-4500.	0.5	9
13	Artifacts and Technical Restrictions in 2D Shear Wave Elastography. Ultraschall in Der Medizin, 2020, 41, 267-277.	0.8	44
14	Ultrafast ultrasound coupled with cervical magnetic stimulation for nonâ€invasive and nonâ€volitional assessment of diaphragm contractility. Journal of Physiology, 2020, 598, 5627-5638.	1.3	5
15	Ultrasound shear wave elastography for assessing diaphragm function in mechanically ventilated patients: a breath-by-breath analysis. Critical Care, 2020, 24, 669.	2.5	18
16	Evaluation of capacitive micromachined ultrasonic transducers for passive monitoring of microbubble-assisted ultrasound therapies. Journal of the Acoustical Society of America, 2020, 148, 2248-2255.	0.5	4
17	Acoustoelasticity in transverse isotropic soft tissues: quantification of muscles' nonlinear elasticity. , 2020, , .		3
18	Validation of Pharmacological Protocols for Targeted Inhibition of Canalicular MRP2 Activity in Hepatocytes Using [99mTc]mebrofenin Imaging in Rats. Pharmaceutics, 2020, 12, 486.	2.0	7

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19	Changes in the Viscoelastic Properties of the Vastus Lateralis Muscle With Fatigue. Frontiers in Physiology, 2020, 11, 307.	1.3	29
20	Diaphragm thickening fraction versus transdiaphragmatic pressure in healthy subjects and ventilated patients: a breath-by-breath analysis. , 2020, , .		1
21	Reconstruction of bi-dimensional images in Fourier-transform acousto-optic imaging. Optics Letters, 2020, 45, 4855.	1.7	7
22	Ultrasound shear wave elastography for non-invasive assessment of diaphragm activity in mechanically ventilated patients.. , 2020, , .		0
23	Ultrafast Ultrasound Plane Wave Imaging As a Novel non-Invasive Technique to Assess Diaphragm Contractility in Response to Phrenic Nerve Magnetic Stimulation. , 2020, , .		0
24	Controlled mechanical vibration and impacts on skin biology. Skin Research and Technology, 2019, 25, 881-889.	0.8	3
25	Drastic slowdown of the Rayleigh-like wave in unjammed granular suspensions. Physical Review E, 2019, 99, 042902.	0.8	7
26	Postureâ€related stiffness mapping of paraspinal muscles. Journal of Anatomy, 2019, 234, 787-799.	0.9	12
27	Diaphragm shear modulus reflects transdiaphragmatic pressure during isovolumetric inspiratory efforts and ventilation against inspiratory loading. Journal of Applied Physiology, 2019, 126, 699-707.	1.2	33
28	3-D Longitudinal Imaging of Tumor Angiogenesis in Mice in Vivo Using Ultrafast Doppler Tomography. Ultrasound in Medicine and Biology, 2019, 45, 1284-1296.	0.7	15
29	Development of ultrasensitive Doppler imaging method for the surgical management of open-brain tumors. , 2019, , .		1
30	Ultrasound shear wave elastography for assessing diaphragm function within the intensive care unit. , 2019, , .		1
31	Characterization of Testicular Masses in Adults: Performance of Combined Quantitative Shear Wave Elastography and Conventional Ultrasound. Ultrasound in Medicine and Biology, 2019, 45, 720-731.	0.7	17
32	Ultrasonic Adaptive Sound Speed Estimation for the Diagnosis and Quantification of Hepatic Steatosis: A Pilot Study. Ultraschall in Der Medizin, 2019, 40, 722-733.	0.8	48
33	Ultrasensitive Doppler as a tool for the diagnosis of testicular ischemia during the Valsalva maneuver: a new way to explore varicoceles?. Acta Radiologica, 2019, 60, 1048-1056.	0.5	6
34	Structured ultrasound-modulated optical tomography. Applied Optics, 2019, 58, 1933.	0.9	13
35	Testicular ultrasensitive Doppler preliminary experience: a feasibility study. Acta Radiologica, 2018, 59, 346-354.	0.5	7
36	Ultrafast Ultrasound Imaging Grants Alternate Methods for Assessing Diaphragm Function. , 2018, , .		2

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37	Ultrasonic fat fraction quantification using in vivo adaptive sound speed estimation. Physics in Medicine and Biology, 2018, 63, 215013.	1.6	38
38	Two-color interpolation of the absorption response for quantitative acousto-optic imaging. Optics Letters, 2018, 43, 399.	1.7	3
39	Acousto-optic imaging using plane waves (Conference Presentation). , 2018, , .		0
40	Changes in diaphragm stiffness assessed with ultrasound shear wave elastography reflect changes in transdiaphragmatic pressure. , 2018, , .		0
41	Feasibility of Imaging and Treatment Monitoring of Breast Lesions with Three-Dimensional Shear Wave Elastography. Ultraschall in Der Medizin, 2017, 38, 51-59.	0.8	26
42	Testicular Shear Wave Elastography in Normal and Infertile Men: A Prospective Study on 601 Patients. Ultrasound in Medicine and Biology, 2017, 43, 782-789.	0.7	36
43	A diffraction correction for storage and loss moduli imaging using radiation force based elastography. Physics in Medicine and Biology, 2017, 62, 91-106.	1.6	45
44	Robust sound speed estimation for ultrasound-based hepatic steatosis assessment. Physics in Medicine and Biology, 2017, 62, 3582-3598.	1.6	117
45	3D functional ultrasound imaging of the cerebral visual system in rodents. NeuroImage, 2017, 149, 267-274.	2.1	82
46	Transcranial Functional Ultrasound Imaging in Freely Moving Awake Mice and Anesthetized Young Rats without Contrast Agent. Ultrasound in Medicine and Biology, 2017, 43, 1679-1689.	0.7	87
47	InÂVivo Multiparametric Ultrasound Imaging of Structural and Functional Tumor Modifications during Therapy. Ultrasound in Medicine and Biology, 2017, 43, 2000-2012.	0.7	14
48	Intraoperative Functional Ultrasound Imaging of Human Brain Activity. Scientific Reports, 2017, 7, 7304.	1.6	102
49	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. Scientific Reports, 2017, 7, 830.	1.6	57
50	Evaluation of Antivascular Combretastatin A4 P Efficacy Using Supersonic Shear Imaging Technique of Ectopic Colon CarcinomaÂCT26. Ultrasound in Medicine and Biology, 2017, 43, 2352-2361.	0.7	10
51	Notice of Removal: Shear wave attenuation quantification in viscoelastic transverse isotropic soft tissue using shear wave elastography. , 2017, , .		0
52	Notice of Removal: Functional ultrasound (fUS) allows measurements of cerebral blood volume response delays. , 2017, , .		0
53	Tumor Stiffening, a Key Determinant of Tumor Progression, is Reversed by Nanomaterial-Induced Photothermal Therapy. Theranostics, 2017, 7, 329-343.	4.6	66
54	Pulsatile flow dynamics in stenotic aortic models using ultrasonic and optical particle imaging velocimetry. , 2016, , .		0

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55	Spatiotemporal response of rat visual cortex during moving stimuli using Functional Ultrasound (fUS) imaging. , 2016, , .		1
56	Muscle parameters estimation based on biplanar radiography. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1592-1598.	0.9	2
57	Ultrasound-based imaging methods of the kidneyâ€"recent developments. Kidney International, 2016, 90, 1199-1210.	2.6	63
58	Ultrafast acousto-optic imaging with ultrasonic plane waves. Optics Express, 2016, 24, 3774.	1.7	13
59	Functional ultrasound imaging of the human brain activity: An intraoperative pilot study for cortical functional mapping. , 2016, , .		15
60	Shear Wave Measurements for Evaluation of Tendon Diseases. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1906-1921.	1.7	18
61	Mapping of storage Gâ€² and loss Gâ€³ moduli of blood during coagulation using supersonic shear imaging. , 2016, , .		0
62	A new method to assess the deformations of internal organs of the abdomen during impact. Traffic Injury Prevention, 2016, 17, 821-826.	0.6	6
63	4D microvascular imaging based on ultrafast Doppler tomography. NeuroImage, 2016, 127, 472-483.	2.1	104
64	<italic>In Vivo</italic> Quantification of the Nonlinear Shear Modulus in Breast Lesions: Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 101-109.	1.7	48
65	In vivoquantification of the shear modulus of the human Achilles tendon during passive loading using shear wave dispersion analysis. Physics in Medicine and Biology, 2016, 61, 2485-2496.	1.6	64
66	Supersonic Shear Wave Elastography of Response to Anti-cancer Therapy in a Xenograft Tumor Model. Ultrasound in Medicine and Biology, 2016, 42, 924-930.	0.7	18
67	In Vivo Measurement of Brain Tumor Elasticity Using Intraoperative Shear Wave Elastography. Ultraschall in Der Medizin, 2016, 37, 584-590.	0.8	94
68	Feasibility and Diagnostic Accuracy of Supersonic Shear-Wave Elastography for the Assessment of Liver Stiffness and Liver Fibrosis in Children: A Pilot Study of 96 Patients. Radiology, 2016, 278, 554-562.	3.6	104
69	Lumbar annulus fibrosus biomechanical characterization in healthy children by ultrasound shear wave elastography. European Radiology, 2016, 26, 1213-1217.	2.3	29
70	Multiâ€modal acoustoâ€optic/ultrasound imaging of ex vivo liver tumors at 790 nm using a Sn 2 P 2 S 6 wavefront adaptive holographic setup. Journal of Biophotonics, 2015, 8, 429-436.	1.1	10
71	Analysis of Rayleigh-Lamb Modes in Soft-solids with Application to Surface Wave Elastography. Physics Procedia, 2015, 70, 175-178.	1.2	1
72	Placental elastography in a murine intrauterine growth restriction model. Prenatal Diagnosis, 2015, 35, 1106-1111.	1.1	15

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73	Elastography for Muscle Biomechanics. Exercise and Sport Sciences Reviews, 2015, 43, 125-133.	1.6	233
74	Observation of the internal response of the kidney during compressive loading using ultrafast ultrasonography. Journal of Biomechanics, 2015, 48, 1852-1859.	0.9	7
75	Assessment of the Cervix in Pregnant Women Using Shear WaveÂElastography: A Feasibility Study. Ultrasound in Medicine and Biology, 2015, 41, 2789-2797.	0.7	68
76	3-D ultrafast doppler imaging applied to the noninvasive mapping of blood vessels in Vivo. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1467-1472.	1.7	95
77	4-D ultrafast shear-wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1059-1065.	1.7	83
78	EEG and functional ultrasound imaging in mobile rats. Nature Methods, 2015, 12, 831-834.	9.0	133
79	Modelling the impulse diffraction field of shear waves in transverse isotropic viscoelastic medium. Physics in Medicine and Biology, 2015, 60, 3639-3654.	1.6	28
80	Reliable Protocol for Shear Wave Elastography of Lower Limb Muscles at Rest and During Passive Stretching. Ultrasound in Medicine and Biology, 2015, 41, 2284-2291.	0.7	103
81	Spatiotemporal Clutter Filtering of Ultrafast Ultrasound Data Highly Increases Doppler and fUltrasound Sensitivity. IEEE Transactions on Medical Imaging, 2015, 34, 2271-2285.	5.4	661
82	Mechanical induction of the tumorigenic Î²-catenin pathway by tumour growth pressure. Nature, 2015, 523, 92-95.	13.7	288
83	Effects of pressure on the shear modulus, mass and thickness of the perfused porcine kidney. Journal of Biomechanics, 2015, 48, 30-37.	0.9	13
84	Investigating liver stiffness and viscosity for fibrosis, steatosis and activity staging using shear wave elastography. Journal of Hepatology, 2015, 62, 317-324.	1.8	193
85	Quantification of elasticity changes in the myometrium during labor using Supersonic Shear Imaging: A feasibility study. Ultrasonics, 2015, 56, 183-188.	2.1	21
86	Abstract 1497: In vivo discrimination of tumor modifications during antiangiogenic and cytotoxic therapy using ultrasonography modalities: Shear Wave Elastography (SWE), Contrast Enhanced Ultrasound (CEUS) and Quantitative Ultrasound (QUS). , 2015, , .		0
87	3D ultrafast ultrasound imagingin vivo. Physics in Medicine and Biology, 2014, 59, L1-L13.	1.6	290
88	Comparison of tumor microvasculature assessment via Ultrafast Doppler Tomography and Dynamic Contrast Enhanced Ultrasound. , 2014, , .		2
89	Complementarity of shear wave elastography and dynamic contrast-enhanced ultrasound to discriminate tumor modifications during antiangiogenic and cytotoxic therapy. , 2014, , .		1
90	Intervertebral disc characterization by shear wave elastography: An in vitro preliminary study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 607-615.	1.0	20

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91	Intraoperative quantitative measurement of brain tumor stiffness and intracranial pressure assessment using ultrasound shear wave elastography. , 2014, , .		4
92	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue: a multimodality characterization. Physics in Medicine and Biology, 2014, 59, 6923-6940.	1.6	66
93	Supersonic Shear Wave Elastography for the In Vivo Evaluation of Transepithelial Corneal Collagen Cross-Linking. , 2014, 55, 1976.		51
94	Use of shear wave elastography for monitoring enzymatic milk coagulation. Journal of Food Engineering, 2014, 136, 73-79.	2.7	6
95	In vivoevaluation of the elastic anisotropy of the human Achilles tendon using shear wave dispersion analysis. Physics in Medicine and Biology, 2014, 59, 505-523.	1.6	158
96	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue. , 2014, , .		3
97	Rheology over five orders of magnitude in model hydrogels: agreement between strain-controlled rheometry, transient elastography, and supersonic shear wave imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 946-954.	1.7	10
98	Non-invasive biomechanical characterization of intervertebral discs by shear wave ultrasound elastography: a feasibility study. European Radiology, 2014, 24, 3210-3216.	2.3	39
99	Recovering shear wave velocity in boundary sensitive media with two-dimensional motion tracking. , 2014, , .		2
100	In vivocervical intervertebral disc characterisation by elastography. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 120-121.	0.9	1
101	Adaptive motion estimation of shear shock waves in soft solids and tissue with ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1489-1503.	1.7	19
102	Correlation between Classical Rheometry and Supersonic Shear Wave Imaging in Blood Clots. Ultrasound in Medicine and Biology, 2013, 39, 2123-2136.	0.7	23
103	Shear wave elastography of tumour growth in a human breast cancer model with pathological correlation. European Radiology, 2013, 23, 2079-2086.	2.3	73
104	Ultrasound elastography: Principles and techniques. Diagnostic and Interventional Imaging, 2013, 94, 487-495.	1.8	706
105	Renal ultrasound elastography. Diagnostic and Interventional Imaging, 2013, 94, 545-550.	1.8	108
106	In vivo achilles tendon elasticity assessment using supersonic shear imaging: A feasibility study. , 2013, , .		0
107	A new method to assess the deformations of internal organs of the abdomen during impact. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 202-203.	0.9	2
108	Effects of storage temperature on the mechanical properties of porcine kidney estimated using shear wave elastography. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 86-93.	1.5	17

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109	Intervertebral disc characterisation by elastography: a preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 275-277.	0.9	4
110	Ultrasound Elastography of the Kidney. Ultrasound Clinics, 2013, 8, 551-564.	0.2	9
111	RSNA/QIBA: Shear wave speed as a biomarker for liver fibrosis staging. , 2013, , .		52
112	Internal kidney's behaviour during compressive loading using ultrafast echography. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 200-201.	0.9	1
113	Evaluation of Nonradiative Clinical Imaging Techniques for the Longitudinal Assessment of Tumour Growth in Murine CT26 Colon Carcinoma. International Journal of Molecular Imaging, 2013, 2013, 1-13.	1.3	19
114	Cross validation of Supersonic Shear Wave Imaging (SSI) with classical rheometry during blood coagulation over a very large bandwidth. , 2013, , .		0
115	Assessment of the cervical stiffness in pregnant women using Shear Wave Elastography: A feasibility study. , 2013, , .		0
116	Shear wave dispersion for fibrosis, steatosis and activity staging. , 2013, , .		0
117	High frequency rheology of hybrid hydrogels using ultrasound transient elastography. , 2012, , .		1
118	Adaptive ultrasonic displacement estimation for elastic shock waves in soft solids. , 2012, , .		0
119	Monitoring of Cornea Elastic Properties Changes during UV-A/Riboflavin-Induced Corneal Collagen Cross-Linking using Supersonic Shear Wave Imaging: A Pilot Study. , 2012, 53, 5948.		57
120	The variance of quantitative estimates in shear wave imaging: Theory and experiments. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2390-410.	1.7	65
121	Detection of intrarenal microstructural changes with supersonic shear wave elastography in rats. European Radiology, 2012, 22, 243-250.	2.3	49
122	Quantitative elastography of renal transplants using supersonic shear imaging: a pilot study. European Radiology, 2012, 22, 2138-2146.	2.3	113
123	Supersonic Shear Wave Elastography of InÂVivo Pig Kidney: Influence of Blood Pressure, Urinary Pressure and Tissue Anisotropy. Ultrasound in Medicine and Biology, 2012, 38, 1559-1567.	0.7	214
124	Shear Wave Elastography Quantification of Blood Elasticity During Clotting. Ultrasound in Medicine and Biology, 2012, 38, 2218-2228.	0.7	25
125	Quantitative imaging of nonlinear shear modulus by combining static elastography and shear wave elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 833-839.	1.7	55
126	Measurement of pulsatile motion with millisecond resolution by MRI. Magnetic Resonance in Medicine, 2012, 67, 1787-1793.	1.9	2

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127	Application of 1-d transient elastography for the shear modulus assessment of thin-layered soft tissue: comparison with supersonic shear imaging technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 703-714.	1.7	19
128	On the effects of reflected waves in transient shear wave elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2032-2035.	1.7	176
129	On the elasticity of transverse isotropic soft tissues (L). Journal of the Acoustical Society of America, 2011, 129, 2757-2760.	0.5	124
130	Noninvasive In Vivo Liver Fibrosis Evaluation Using Supersonic Shear Imaging: A Clinical Study on 113 Hepatitis C Virus Patients. Ultrasound in Medicine and Biology, 2011, 37, 1361-1373.	0.7	382
131	Shear wave elastography in obstetrics: Quantification of cervix elasticity and uterine contraction. , 2011, , .		3
132	Realâ€time visualization of muscle stiffness distribution with ultrasound shear wave imaging during muscle contraction. Muscle and Nerve, 2010, 42, 438-441.	1.0	191
133	Viscoelastic and Anisotropic Mechanical Properties of in vivo Muscle Tissue Assessed by Supersonic Shear Imaging. Ultrasound in Medicine and Biology, 2010, 36, 789-801.	0.7	577
134	Shear wave propagation in complex sub wavelength tissue geometries: Theoretical and experimental implications in the framework of cornea and skin shear wave imaging. , 2010, , .		1
135	Nonlinear reflection of shock shear waves in soft elastic media. Journal of the Acoustical Society of America, 2010, 127, 683-691.	0.5	18
136	Real time quantitative elastography using Supersonic Shear wave Imaging. , 2010, , .		5
137	Comparison between 1D transient elastography and Supersonic Shear Imaging technique: Application to the arterial wall elasticity assessment. , 2010, , .		0
138	Multiwave technology introducing shear wave elastography of the kidney: Pre-clinical study on a kidney fibrosis model and clinical feasibility study on 49 human renal transplants. , 2010, , .		8
139	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. Physics in Medicine and Biology, 2010, 55, 1701-1718.	1.6	117
140	Breast Lesions: Quantitative Elastography with Supersonic Shear Imagingâ€"Preliminary Results. Radiology, 2010, 256, 297-303.	3.6	469
141	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. , 2009, , .		0
142	3D in vivo brain elasticity mapping in small animals using ultrasound. , 2009, , .		1
143	High-Resolution Quantitative Imaging of Cornea Elasticity Using Supersonic Shear Imaging. IEEE Transactions on Medical Imaging, 2009, 28, 1881-1893.	5.4	198
144	Application of DENSEâ€MRâ€elastography to the human heart. Magnetic Resonance in Medicine, 2009, 62, 1155-1163.	1.9	39

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145	Quantitative Viscoelasticity Mapping of Human Liver Using Supersonic Shear Imaging: Preliminary In Vivo Feasability Study. Ultrasound in Medicine and Biology, 2009, 35, 219-229.	0.7	369
146	Nonlinear and von neumann reflection of elastic shock waves in soft solids. , 2009, , .		1
147	Characterization of muscle belly elastic properties during passive stretching using transient elastography. Journal of Biomechanics, 2008, 41, 2305-2311.	0.9	92
148	Quantitative Assessment of Breast Lesion Viscoelasticity: Initial Clinical Results Using Supersonic Shear Imaging. Ultrasound in Medicine and Biology, 2008, 34, 1373-1386.	0.7	654
149	Assessment of the mechanical properties of the musculoskeletal system using 2-D and 3-D very high frame rate ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2177-2190.	1.7	85
150	ShearWave™ Elastography A new real time imaging mode for assessing quantitatively soft tissue viscoelasticity. , 2008, , .		19
151	Measurement of Shear Elastic Moduli in Quasi-Incompressible Soft Solids. AIP Conference Proceedings, 2008, , .	0.3	6
152	Fourth-order shear elastic constant assessment in quasi-incompressible soft solids. Applied Physics Letters, 2008, 93, .	1.5	24
153	Nonlinear shear wave interaction in soft solids. Journal of the Acoustical Society of America, 2007, 122, 1917-1926.	0.5	39
154	8C-5 Full 3D Inversion of the Viscoelasticity Wave Propagation Problem for 3D Ultrasound Elastography in Breast Cancer Diagnosis. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	5
155	Lâ€™Ã©lastographie par ultrasons ou rÃ©sonance magnÃ©tiqueÂ: de nouveaux outils de diagnostic en cancÃ©rologie. Medecine Nucleaire, 2007, 31, 132-141.	0.2	2
156	Estimation of polyvinyl alcohol cryogel mechanical properties with four ultrasound elastography methods and comparison with gold standard testings. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 498-509.	1.7	171
157	Acoustoelasticity in soft solids: Assessment of the nonlinear shear modulus with the acoustic radiation force. Journal of the Acoustical Society of America, 2007, 122, 3211-3219.	0.5	165
158	7B-2 Nonlinear Shear Elastic Moduli in Quasi-Incompressible Soft Solids. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	4
159	8C-4 Active and Passive Muscle Properties Assessed by Ultrasound Techniques. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
160	Sol-gel transition in agar-gelatin mixtures studied with transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 716-723.	1.7	35
161	Assessment by transient elastography of the viscoelastic properties of blood during clotting. Ultrasound in Medicine and Biology, 2006, 32, 1529-1537.	0.7	76
162	Nonlinear viscoelastic properties of tissue assessed by ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2009-2018.	1.7	28

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163	2J-5 Ultrafast Ultrasonic Imaging of In Vivo Muscle Contraction. , 2006, , .		2
164	Ultrafast imaging of in vivo muscle contraction using ultrasound. Applied Physics Letters, 2006, 89, 184107.	1.5	51
165	4J-5 A 3D Elastography System Based on the Concept of Ultrasound-Computed Tomography for In Vivo Breast Examination. , 2006, , .		1
166	Human muscle hardness assessment during incremental isometric contraction using transient elastography. Journal of Biomechanics, 2005, 38, 1543-1550.	0.9	160
167	Measurement of viscoelastic properties of homogeneous soft solid using transient elastography: An inverse problem approach. Journal of the Acoustical Society of America, 2004, 116, 3734-3741.	0.5	329
168	Assessment of elastic parameters of human skin using dynamic elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 980-989.	1.7	121
169	In vivo breast tumor detection using transient elastography. Ultrasound in Medicine and Biology, 2003, 29, 1387-1396.	0.7	314
170	Measurement of elastic nonlinearity of soft solid with transient elastography. Journal of the Acoustical Society of America, 2003, 114, 3087-3091.	0.5	93
171	Transient elastography in anisotropic medium: Application to the measurement of slow and fast shear wave speeds in muscles. Journal of the Acoustical Society of America, 2003, 114, 536-541.	0.5	236
172	Observation of Shock Transverse Waves in Elastic Media. Physical Review Letters, 2003, 91, 164301.	2.9	94
173	Shear elasticity probe for soft tissues with 1-D transient elastography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 436-446.	1.7	352
174	Quantification of red blood cell aggregation using an ultrasound clinical imaging system. , 0, , .		3
175	Ultra high speed imaging of elasticity. , 0, , .		19
176	Nonlinearity studies in soft tissues with the supersonic shear imaging system. , 0, , .		2
177	Analysis of blood clot formation with transient elastography: similarity with sol-gel transition in agar-gelatin phantoms.. , 0, , .		5
178	Non-invasive vascular elastography based on a new 2-D strain estimator : simulation and in vitro results. , 0, , .		1
179	A new method to assess the kinetics of rouleaux formation in human subcutaneous veins using high frequency parametric imaging: preliminary results. , 0, , .		1