

# 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	Ultrasound elastography: Principles and techniques. Diagnostic and Interventional Imaging, 2013, 94, 487-495.	1.8	706
2	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
3	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
4	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
5	Breast Lesions: Quantitative Elastography with Supersonic Shear Imaging—Preliminary Results. Radiology, 2010, 256, 297-303.	3.6	469
6	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
7	Quantitative Viscoelasticity Mapping of Human Liver Using Supersonic Shear Imaging: Preliminary In Vivo Feasibility Study. Ultrasound in Medicine and Biology, 2009, 35, 219-229.	0.7	369
8	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
9	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
10	In vivo breast tumor detection using transient elastography. Ultrasound in Medicine and Biology, 2003, 29, 1387-1396.	0.7	314
11	3D ultrafast ultrasound imaging in vivo. Physics in Medicine and Biology, 2014, 59, L1-L13.	1.6	290
12	Mechanical induction of the tumorigenic $\beta$ -catenin pathway by tumour growth pressure. Nature, 2015, 523, 92-95.	13.7	288
13	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
14	Elastography for Muscle Biomechanics. Exercise and Sport Sciences Reviews, 2015, 43, 125-133.	1.6	233
15	Supersonic Shear Wave Elastography of In Vivo Pig Kidney: Influence of Blood Pressure, Urinary Pressure and Tissue Anisotropy. Ultrasound in Medicine and Biology, 2012, 38, 1559-1567.	0.7	214
16	High-Resolution Quantitative Imaging of Cornea Elasticity Using Supersonic Shear Imaging. IEEE Transactions on Medical Imaging, 2009, 28, 1881-1893.	5.4	198
17	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
18	Real-time visualization of muscle stiffness distribution with ultrasound shear wave imaging during muscle contraction. Muscle and Nerve, 2010, 42, 438-441.	1.0	191

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Human muscle hardness assessment during incremental isometric contraction using transient elastography. Journal of Biomechanics, 2005, 38, 1543-1550.	0.9	160
23	<i>In vivo</i> evaluation 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
24	EEG and functional ultrasound imaging in mobile rats. Nature Methods, 2015, 12, 831-834.	9.0	133
25	On the elasticity of transverse isotropic soft tissues (L). Journal of the Acoustical Society of America, 2011, 129, 2757-2760.	0.5	124
26	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
27	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. Physics in Medicine and Biology, 2010, 55, 1701-1718.	1.6	117
28	Robust sound speed estimation for ultrasound-based hepatic steatosis assessment. Physics in Medicine and Biology, 2017, 62, 3582-3598.	1.6	117
29	Quantitative elastography of renal transplants using supersonic shear imaging: a pilot study. European Radiology, 2012, 22, 2138-2146.	2.3	113
30	Renal ultrasound elastography. Diagnostic and Interventional Imaging, 2013, 94, 545-550.	1.8	108
31	4D microvascular imaging based on ultrafast Doppler tomography. NeuroImage, 2016, 127, 472-483.	2.1	104
32	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
33	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
34	Intraoperative Functional Ultrasound Imaging of Human Brain Activity. Scientific Reports, 2017, 7, 7304.	1.6	102
35	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
36	Observation of Shock Transverse Waves in Elastic Media. Physical Review Letters, 2003, 91, 164301.	2.9	94

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37	In Vivo Measurement of Brain Tumor Elasticity Using Intraoperative Shear Wave Elastography. <i>Ultraschall in Der Medizin</i> , 2016, 37, 584-590.	0.8	94
38	Measurement of elastic nonlinearity of soft solid with transient elastography. <i>Journal of the Acoustical Society of America</i> , 2003, 114, 3087-3091.	0.5	93
39	Characterization of muscle belly elastic properties during passive stretching using transient elastography. <i>Journal of Biomechanics</i> , 2008, 41, 2305-2311.	0.9	92
40	Transcranial Functional Ultrasound Imaging in Freely Moving Awake Mice and Anesthetized Young Rats without Contrast Agent. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1679-1689.	0.7	87
41	Assessment of the mechanical properties of the musculoskeletal system using 2-D and 3-D very high frame rate ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008, 55, 2177-2190.	1.7	85
42	4-D ultrafast shear-wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1059-1065.	1.7	83
43	3D functional ultrasound imaging of the cerebral visual system in rodents. <i>NeuroImage</i> , 2017, 149, 267-274.	2.1	82
44	Assessment by transient elastography of the viscoelastic properties of blood during clotting. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1529-1537.	0.7	76
45	Shear wave elastography of tumour growth in a human breast cancer model with pathological correlation. <i>European Radiology</i> , 2013, 23, 2079-2086.	2.3	73
46	Assessment of the Cervix in Pregnant Women Using Shear Wave Elastography: A Feasibility Study. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 2789-2797.	0.7	68
47	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue: a multimodality characterization. <i>Physics in Medicine and Biology</i> , 2014, 59, 6923-6940.	1.6	66
48	Tumor Stiffening, a Key Determinant of Tumor Progression, is Reversed by Nanomaterial-Induced Photothermal Therapy. <i>Theranostics</i> , 2017, 7, 329-343.	4.6	66
49	The variance of quantitative estimates in shear wave imaging: Theory and experiments. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 2390-410.	1.7	65
50	<i>In vivo</i> quantification of the shear modulus of the human Achilles tendon during passive loading using shear wave dispersion analysis. <i>Physics in Medicine and Biology</i> , 2016, 61, 2485-2496.	1.6	64
51	Ultrasound-based imaging methods of the kidney—recent developments. <i>Kidney International</i> , 2016, 90, 1199-1210.	2.6	63
52	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
53	Imaging the dynamics of cardiac fiber orientation in vivo using 3D Ultrasound Backscatter Tensor Imaging. <i>Scientific Reports</i> , 2017, 7, 830.	1.6	57
54	Quantitative imaging of nonlinear shear modulus by combining static elastography and shear wave elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 833-839.	1.7	55

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55	RSNA/QIBA: Shear wave speed as a biomarker for liver fibrosis staging. , 2013, , .		52
56	Ultrafast imaging of in vivo muscle contraction using ultrasound. Applied Physics Letters, 2006, 89, 184107.	1.5	51
57	Supersonic Shear Wave Elastography for the In Vivo Evaluation of Transepithelial Corneal Collagen Cross-Linking. , 2014, 55, 1976.		51
58	Detection of intrarenal microstructural changes with supersonic shear wave elastography in rats. European Radiology, 2012, 22, 243-250.	2.3	49
59	<i>In Vivo</i> 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
60	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
61	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
62	Artifacts and Technical Restrictions in 2D Shear Wave Elastography. Ultraschall in Der Medizin, 2020, 41, 267-277.	0.8	44
63	Nonlinear shear wave interaction in soft solids. Journal of the Acoustical Society of America, 2007, 122, 1917-1926.	0.5	39
64	Application of DENSE-MRE elastography to the human heart. Magnetic Resonance in Medicine, 2009, 62, 1155-1163.	1.9	39
65	Non-invasive biomechanical characterization of intervertebral discs by shear wave ultrasound elastography: a feasibility study. European Radiology, 2014, 24, 3210-3216.	2.3	39
66	Ultrasonic fat fraction quantification using <i>in vivo</i> adaptive sound speed estimation. Physics in Medicine and Biology, 2018, 63, 215013.	1.6	38
67	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
68	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
69	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
70	Lumbar annulus fibrosus biomechanical characterization in healthy children by ultrasound shear wave elastography. European Radiology, 2016, 26, 1213-1217.	2.3	29
71	Changes in the Viscoelastic Properties of the Vastus Lateralis Muscle With Fatigue. Frontiers in Physiology, 2020, 11, 307.	1.3	29
72	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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73	Modelling the impulse diffraction field of shear waves in transverse isotropic viscoelastic medium. <i>Physics in Medicine and Biology</i> , 2015, 60, 3639-3654.	1.6	28
74	Feasibility of Imaging and Treatment Monitoring of Breast Lesions with Three-Dimensional Shear Wave Elastography. <i>Ultraschall in Der Medizin</i> , 2017, 38, 51-59.	0.8	26
75	Shear Wave Elastography Quantification of Blood Elasticity During Clotting. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 2218-2228.	0.7	25
76	Fourth-order shear elastic constant assessment in quasi-incompressible soft solids. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	24
77	Correlation between Classical Rheometry and Supersonic Shear Wave Imaging in Blood Clots. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 2123-2136.	0.7	23
78	Poor Correlation between Diaphragm Thickening Fraction and Transdiaphragmatic Pressure in Mechanically Ventilated Patients and Healthy Subjects. <i>Anesthesiology</i> , 2021, , .	1.3	23
79	Quantification of elasticity changes in the myometrium during labor using Supersonic Shear Imaging: A feasibility study. <i>Ultrasonics</i> , 2015, 56, 183-188.	2.1	21
80	Intervertebral disc characterization by shear wave elastography: An in vitro preliminary study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 607-615.	1.0	20
81	Ultra high speed imaging of elasticity. , 0, , .		19
82	ShearWave&#x2122; Elastography A new real time imaging mode for assessing quantitatively soft tissue viscoelasticity. , 2008, , .		19
83	Application of 1-d transient elastography for the shear modulus assessment of thin-layered soft tissue: comparison with supersonic shear imaging technique. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 703-714.	1.7	19
84	Evaluation of Nonradiative Clinical Imaging Techniques for the Longitudinal Assessment of Tumour Growth in Murine CT26 Colon Carcinoma. <i>International Journal of Molecular Imaging</i> , 2013, 2013, 1-13.	1.3	19
85	Adaptive motion estimation of shear shock waves in soft solids and tissue with ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 1489-1503.	1.7	19
86	Nonlinear reflection of shock shear waves in soft elastic media. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 683-691.	0.5	18
87	Shear Wave Measurements for Evaluation of Tendon Diseases. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1906-1921.	1.7	18
88	Supersonic Shear Wave Elastography of Response to Anti-cancer Therapy in a Xenograft Tumor Model. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 924-930.	0.7	18
89	Ultrasound shear wave elastography for assessing diaphragm function in mechanically ventilated patients: a breath-by-breath analysis. <i>Critical Care</i> , 2020, 24, 669.	2.5	18
90	Acousto-elasticity of transversely isotropic incompressible soft tissues: characterization of skeletal striated muscle. <i>Physics in Medicine and Biology</i> , 2021, 66, 145009.	1.6	18

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91	Effects of storage temperature on the mechanical properties of porcine kidney estimated using shear wave elastography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 86-93.	1.5	17
92	Characterization of Testicular Masses in Adults: Performance of Combined Quantitative Shear Wave Elastography and Conventional Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 720-731.	0.7	17
93	Placental elastography in a murine intrauterine growth restriction model. <i>Prenatal Diagnosis</i> , 2015, 35, 1106-1111.	1.1	15
94	Functional ultrasound imaging of the human brain activity: An intraoperative pilot study for cortical functional mapping. , 2016, , .		15
95	3-D Longitudinal Imaging of Tumor Angiogenesis in Mice in Vivo Using Ultrafast Doppler Tomography. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1284-1296.	0.7	15
96	In Vivo Multiparametric Ultrasound Imaging of Structural and Functional Tumor Modifications during Therapy. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 2000-2012.	0.7	14
97	Effects of pressure on the shear modulus, mass and thickness of the perfused porcine kidney. <i>Journal of Biomechanics</i> , 2015, 48, 30-37.	0.9	13
98	Ultrafast acousto-optic imaging with ultrasonic plane waves. <i>Optics Express</i> , 2016, 24, 3774.	1.7	13
99	Diagnostic Accuracy of Four Levels of Manual Compression Applied in Supersonic Shear Wave Elastography of the Breast. <i>Academic Radiology</i> , 2021, 28, 481-486.	1.3	13
100	Structured ultrasound-modulated optical tomography. <i>Applied Optics</i> , 2019, 58, 1933.	0.9	13
101	Posture-related stiffness mapping of paraspinal muscles. <i>Journal of Anatomy</i> , 2019, 234, 787-799.	0.9	12
102	Tumor Solid Stress: Assessment with MR Elastography under Compression of Patient-Derived Hepatocellular Carcinomas and Cholangiocarcinomas Xenografted in Mice. <i>Cancers</i> , 2021, 13, 1891.	1.7	12
103	Rheology over five orders of magnitude in model hydrogels: agreement between strain-controlled rheometry, transient elastography, and supersonic shear wave imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 946-954.	1.7	10
104	Multi-modal acousto-optic/ultrasound imaging of ex vivo liver tumors at 790 nm using a Sn 2 P 2 S 6 wavefront adaptive holographic setup. <i>Journal of Biophotonics</i> , 2015, 8, 429-436.	1.1	10
105	Evaluation of Antivascular Combretastatin A4 P Efficacy Using Supersonic Shear Imaging Technique of Ectopic Colon Carcinoma. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 2352-2361.	0.7	10
106	Challenges and Perspectives of the Hybridization of PET with Functional MRI or Ultrasound for Neuroimaging. <i>Neuroscience</i> , 2021, 474, 80-93.	1.1	10
107	Ultrasound Elastography of the Kidney. <i>Ultrasound Clinics</i> , 2013, 8, 551-564.	0.2	9
108	Acoustoelasticity in transversely isotropic soft tissues: Quantification of muscle nonlinear elasticity. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 4489-4500.	0.5	9



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109	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
110	Observation of the internal response of the kidney during compressive loading using ultrafast ultrasonography. Journal of Biomechanics, 2015, 48, 1852-1859.	0.9	7
111	Testicular ultrasensitive Doppler preliminary experience: a feasibility study. Acta Radiologica, 2018, 59, 346-354.	0.5	7
112	Drastic slowdown of the Rayleigh-like wave in unjammed granular suspensions. Physical Review E, 2019, 99, 042902.	0.8	7
113	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
114	Reconstruction of bi-dimensional images in Fourier-transform acousto-optic imaging. Optics Letters, 2020, 45, 4855.	1.7	7
115	Measurement of Shear Elastic Moduli in Quasi-Incompressible Soft Solids. AIP Conference Proceedings, 2008, , .	0.3	6
116	Use of shear wave elastography for monitoring enzymatic milk coagulation. Journal of Food Engineering, 2014, 136, 73-79.	2.7	6
117	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
118	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
119	Analysis of blood clot formation with transient elastography: similarity with sol-gel transition in agar-gelatin phantoms.. , 0, , .		5
120	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
121	Real time quantitative elastography using Supersonic Shear wave Imaging. , 2010, , .		5
122	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
123	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
124	7B-2 Nonlinear Shear Elastic Moduli in Quasi-Incompressible Soft Solids. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	4
125	Intervertebral disc characterisation by elastography: a preliminary study. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 275-277.	0.9	4
126	Intraoperative quantitative measurement of brain tumor stiffness and intracranial pressure assessment using ultrasound shear wave elastography. , 2014, , .		4



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127	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
128	Quantification of red blood cell aggregation using an ultrasound clinical imaging system. , 0, , .		3
129	Shear wave elastography in obstetrics: Quantification of cervix elasticity and uterine contraction. , 2011, , .		3
130	Anisotropic polyvinyl alcohol hydrogel phantom for shear wave elastography in fibrous biological soft tissue. , 2014, , .		3
131	Two-color interpolation of the absorption response for quantitative acousto-optic imaging. Optics Letters, 2018, 43, 399.	1.7	3
132	Controlled mechanical vibration and impacts on skin biology. Skin Research and Technology, 2019, 25, 881-889.	0.8	3
133	Acoustoelasticity in transverse isotropic soft tissues: quantification of muscles' nonlinear elasticity. , 2020, , .		3
134	Nonlinearity studies in soft tissues with the supersonic shear imaging system. , 0, , .		2
135	2J-5 Ultrafast Ultrasonic Imaging of In Vivo Muscle Contraction. , 2006, , .		2
136	L'elastographie par ultrasons ou l'échographie magnétique: de nouveaux outils de diagnostic en cancérologie. Medecine Nucleaire, 2007, 31, 132-141.	0.2	2
137	Measurement of pulsatile motion with millisecond resolution by MRI. Magnetic Resonance in Medicine, 2012, 67, 1787-1793.	1.9	2
138	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
139	Comparison of tumor microvasculature assessment via Ultrafast Doppler Tomography and Dynamic Contrast Enhanced Ultrasound. , 2014, , .		2
140	Recovering shear wave velocity in boundary sensitive media with two-dimensional motion tracking. , 2014, , .		2
141	Muscle parameters estimation based on biplanar radiography. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1592-1598.	0.9	2
142	Ultrafast Ultrasound Imaging Grants Alternate Methods for Assessing Diaphragm Function. , 2018, , .		2
143	Non-invasive vascular elastography based on a new 2-D strain estimator : simulation and in vitro results. , 0, , .		1
144	A new method to assess the kinetics of rouleaux formation in human subcutaneous veins using high frequency parametric imaging: preliminary results. , 0, , .		1

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145	4J-5 A 3D Elastography System Based on the Concept of Ultrasound-Computed Tomography for In Vivo Breast Examination. , 2006, , .		1
146	3D in vivo brain elasticity mapping in small animals using ultrasound. , 2009, , .		1
147	Nonlinear and von neumann reflection of elastic shock waves in soft solids. , 2009, , .		1
148	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
149	High frequency rheology of hybrid hydrogels using ultrasound transient elastography. , 2012, , .		1
150	Internal kidney's behaviour during compressive loading using ultrafast echography. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 200-201.	0.9	1
151	Complementarity of shear wave elastography and dynamic contrast-enhanced ultrasound to discriminate tumor modifications during antiangiogenic and cytotoxic therapy. , 2014, , .		1
152	In vivocervical intervertebral disc characterisation by elastography. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 120-121.	0.9	1
153	Analysis of Rayleigh-Lamb Modes in Soft-solids with Application to Surface Wave Elastography. Physics Procedia, 2015, 70, 175-178.	1.2	1
154	Spatiotemporal response of rat visual cortex during moving stimuli using Functional Ultrasound (fUS) imaging. , 2016, , .		1
155	Development of ultrasensitive Doppler imaging method for the surgical management of open-brain tumors. , 2019, , .		1
156	Ultrasound shear wave elastography for assessing diaphragm function within the intensive care unit. , 2019, , .		1
157	Diaphragm thickening fraction versus transdiaphragmatic pressure in healthy subjects and ventilated patients: a breath-by-breath analysis. , 2020, , .		1
158	Adaptive compensation of TGC effects in contrast-free ultrasensitive ultrasound Doppler imaging for improved resistivity index map visualization. , 2021, , .		1
159	Direct in plane elastic anisotropy factor quantification with inclined push beams in muscles. , 2021, , .		1
160	8C-4 Active and Passive Muscle Properties Assessed by Ultrasound Techniques. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
161	Temperature dependence of the shear modulus of soft tissues assessed by ultrasound. , 2009, , .		0
162	Comparison between 1D transient elastography and Supersonic Shear Imaging technique: Application to the arterial wall elasticity assessment. , 2010, , .		0

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163	Adaptive ultrasonic displacement estimation for elastic shock waves in soft solids. , 2012, , .		0
164	In vivo achilles tendon elasticity assessment using supersonic shear imaging: A feasibility study. , 2013, , .		0
165	Cross validation of Supersonic Shear Wave Imaging (SSI) with classical rheometry during blood coagulation over a very large bandwidth. , 2013, , .		0
166	Assessment of the cervical stiffness in pregnant women using Shear Wave Elastography: A feasibility study. , 2013, , .		0
167	Shear wave dispersion for fibrosis, steatosis and activity staging. , 2013, , .		0
168	Pulsatile flow dynamics in stenotic aortic models using ultrasonic and optical particle imaging velocimetry. , 2016, , .		0
169	Mapping of storage $G'$ and loss $G''$ moduli of blood during coagulation using supersonic shear imaging. , 2016, , .		0
170	Notice of Removal: Shear wave attenuation quantification in viscoelastic transverse isotropic soft tissue using shear wave elastography. , 2017, , .		0
171	Notice of Removal: Functional ultrasound (fUS) allows measurements of cerebral blood volume response delays. , 2017, , .		0
172	Elastography of the Kidney. , 2021, , 227-238.		0
173	Reply to "Letter to the editor: is maximal diaphragm tissue velocity suited for the assessment of diaphragm contractility?" <sup>TM</sup> . Journal of Physiology, 2021, 599, 2343-2344.	1.3	0
174	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
175	Acousto-optic imaging using plane waves (Conference Presentation). , 2018, , .		0
176	Changes in diaphragm stiffness assessed with ultrasound shear wave elastography reflect changes in transdiaphragmatic pressure. , 2018, , .		0
177	Ultrasound shear wave elastography for non-invasive assessment of diaphragm activity in mechanically ventilated patients.. , 2020, , .		0
178	Refinement of the Acoustoelastic Theory in TI Quasi-Incompressible Media for Robust Muscle Nonlinear Elasticity Quantification. , 2021, , .		0
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