

# Stephen A Mcaleavey

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,775  
citations

361413

20  
h-index

377865

34  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-wave generation using acoustic radiation force: in vivo and ex vivo results. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1715-1723.	1.5	557
2	Ultrasonic tracking of acoustic radiation force-induced displacements in homogeneous media. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1300-1313.	3.0	157
3	Shear-Modulus Estimation by Application of Spatially-Modulated Impulsive Acoustic Radiation Force. <i>Ultrasonic Imaging</i> , 2007, 29, 87-104.	2.6	112
4	Dynamic mechanical response of elastic spherical inclusions to impulsive acoustic radiation force excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 2065-2079.	3.0	100
5	Acoustic radiation force impulse imaging of myocardial radiofrequency ablation: initial in vivo results. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 631-641.	3.0	92
6	Estimates of echo correlation and measurement bias in acoustic radiation force impulse imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 631-641.	3.0	79
7	Single Tracking Location Methods Suppress Speckle Noise in Shear Wave Velocity Estimation. <i>Ultrasonic Imaging</i> , 2013, 35, 109-125.	2.6	71
8	RSNA/QIBA: Shear wave speed as a biomarker for liver fibrosis staging. , 2013, , .		52
9	Mechanical and functional validation of a perfused, robot-assisted partial nephrectomy simulation platform using a combination of 3D printing and hydrogel casting. <i>World Journal of Urology</i> , 2020, 38, 1631-1641.	2.2	49
10	Shear Modulus Imaging with Spatially-Modulated Ultrasound Radiation Force. <i>Ultrasonic Imaging</i> , 2009, 31, 217-234.	2.6	47
11	Validation of SMURF Estimation of Shear Modulus in Hydrogels. <i>Ultrasonic Imaging</i> , 2009, 31, 131-150.	2.6	36
12	Shear Wave Speed Measurements Using Crawling Wave Sonoelastography and Single Tracking Location Shear Wave Elasticity Imaging for Tissue Characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 1351-1360.	3.0	29
13	Doppler ultrasound imaging of magnetically vibrated brachytherapy seeds. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 252-255.	4.2	28
14	Adaptive imaging on a diagnostic ultrasound scanner at quasi real-time rates. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1832-1843.	3.0	28
15	Single tracking location acoustic radiation force impulse viscoelasticity estimation (STL-VE): A method for measuring tissue viscoelastic parameters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1225-1244.	3.0	26
16	Validation of SMURF Estimation of Shear Modulus in Hydrogels. <i>Ultrasonic Imaging</i> , 2009, 31, 131-150.	2.6	25
17	Radiological Society of North America/Quantitative Imaging Biomarker Alliance Shear Wave Speed Bias Quantification in Elastic and Viscoelastic Phantoms. <i>Journal of Ultrasound in Medicine</i> , 2021, 40, 569-581.	1.7	25
18	Shear Wave Elastography in the Living, Perfused, Post-Delivery Placenta. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1282-1288.	1.5	23

#	ARTICLE	IF	CITATIONS
19	Shear wave arrival time estimates correlate with local speckle pattern. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2054-2067.	3.0	21
20	Scholte wave generation during single tracking location shear wave elasticity imaging of engineered tissues. Journal of the Acoustical Society of America, 2015, 138, EL138-EL144.	1.1	20
21	Shear Induced Non-Linear Elasticity Imaging: Elastography for Compound Deformations. IEEE Transactions on Medical Imaging, 2020, 39, 3559-3570.	8.9	20
22	Nonlinear Shear Modulus Estimation With Bi-Axial Motion Registered Local Strain. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1292-1303.	3.0	18
23	Plane-Wave Imaging Improves Single-Track Location Shear Wave Elasticity Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1402-1414.	3.0	17
24	A pilot investigation of an iOS-based app for toilet training children with autism spectrum disorder. Autism, 2019, 23, 359-370.	4.1	14
25	Hybrid Force/Velocity Control With Compliance Estimation via Strain Elastography for Robot Assisted Ultrasound Screening. , 2018, , .		13
26	Intraocular Pressure-dependent Corneal Elasticity Measurement Using High-frequency Ultrasound. Ultrasonic Imaging, 2019, 41, 251-270.	2.6	11
27	Deformation Independent Non-linearity Estimation: Studies and Implementation in Ultrasound Shear Wave Elastography. , 2019, , .		11
28	Shear Wave Elasticity Imaging Using Nondiffractive Bessel Apodized Acoustic Radiation Force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3528-3539.	3.0	9
29	Comparison of two methods for the generation of spatially modulated ultrasound radiation force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1344-1354.	3.0	6
30	Measurement of Liver Stiffness Using Shear Wave Elastography in a Rat Model: Factors Impacting Stiffness Measurement with Multiple- and Single-Tracking-Location Techniques. Ultrasound in Medicine and Biology, 2017, 43, 2629-2639.	1.5	6
31	Investigating ARFI Geometry effects on Shearwave Viscoelasticity Reconstructions. , 2021, , .		6
32	Imaging the Local Nonlinear Viscoelastic Properties of Soft Tissues: Initial Validation and Expected Benefits. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 975-987.	3.0	6
33	Real-time acoustic radiation force impulse imaging. , 2005, , .		5
34	A Novel Enuresis Alarm for Toilet Training Students With Intellectual Disability. Journal of Special Education Technology, 2016, 31, 217-227.	2.2	5
35	Evaluating the Feasibility of Nondiffractive Bessel Beams for Shear Wave Elasticity Imaging: A Simulation Study. , 2020, , .		5
36	Ultrasonic backscatter imaging by shear-wave-induced echo phase encoding of target locations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 102-111.	3.0	4

#	ARTICLE	IF	CITATIONS
37	Real-time single track location ultrasound elasticity imaging using graphic processing units. , 2014, , .		4
38	Enabling quantitative robot-assisted compressional elastography via the extended Kalman filter. Physics in Medicine and Biology, 2021, 66, 225014.	3.0	4
39	Local Spectral Nonlinear Elasticity Imaging: Contrast Enhancement in Heterogeneous Elastograms based on Viscoelastic Nonlinear Characterizations. , 2020, , .		4
40	<title>Doppler technique for the detection and localization of modified brachytherapy seeds</title>. , 2002, 4687, 190.		3
41	Arterial stiffness measurements with acoustic radiation force impulse imaging. , 2003, , .		3
42	Shear wave arrival time estimates correlate with local speckle pattern. , 2014, , .		3
43	Non-diffractive Acoustic Radiation Force Push Sequence for Shear Wave Viscoelastography. , 2021, , .		3
44	<title>Effect of decorrelation on butterfly search velocity estimator performance</title>. , 2001, , .		2
45	Image reconstruction with acoustic radiation force induced shear waves. , 2003, 5035, 223.		2
46	Shear modulus imaging by Spatially Modulated Ultrasound Radiation Force. , 2009, , .		2
47	Design and validation of two optical beacons for guidewire localization in breast-conserving surgery. Applied Optics, 2013, 52, 4024.	1.8	2
48	Quantitative nonlinear shear modulus mapping using freehand scanning. , 2020, , .		2
49	Minimization of Displacement Estimation Bias Due to High Amplitude-Reflections Using Envelope-Weighted Normalization. Ultrasonic Imaging, 2010, 32, 65-80.	2.6	1
50	Source effects in SWIPE: Shear-wave-assisted ultrasound imaging. , 2012, 2012, 2314-7.		1
51	Single track location viscosity estimation by maximum likelihood estimation. , 2014, , .		1
52	Analysis and measurement of the modulation transfer function of harmonic shear wave induced phase encoding imaging. Journal of the Acoustical Society of America, 2014, 135, 2836-2846.	1.1	1
53	Influence of transmit beamforming parameters on image quality in quantitative elastography. , 2017, , .		1
54	Characterization and Evaluation of a Hydrogel-PVC Aberrator Phantom. , 2020, , .		1

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55	A comparison between 1D and 1.5D arrays for the formation of Spatially Modulated Ultrasound Radiation Force beams. , 2009, , .		0
56	Effects of correlation window length and reflection amplitude on axial displacement measurements using cone phantoms. , 2009, , .		0
57	Image reconstruction from shear wave modulated ultrasound echo data. , 2009, , .		0
58	Shear Wave Induced Phase Encoding Imaging with Enhanced Resolution. , 2011, , .		0
59	Notice of Removal: A novel tracking strategy for single tracking location shear wave elasticity imaging. , 2017, , .		0
60	Influence of transmit beamforming parameters on image quality in quantitative elastography. , 2017, , .		0
61	Shear Wave Speed Ratio for evaluation of nonlinearity of soft tissues. , 2021, , .		0