

# Raffaella Righetti

## List of Publications by Year in descending order

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51  
papers

1,536  
citations

430754

18  
h-index

315616

38  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1051  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasound estimation of strain time constant and vascular permeability in tumors using a CEEMDAN and linear regression-based method. <i>Computers in Biology and Medicine</i> , 2022, 148, 105707.	3.9	1
2	Non-Invasive Assessment of the Spatial and Temporal Distributions of Interstitial Fluid Pressure, Fluid Velocity and Fluid Flow in Cancers <i>In Vivo</i> . <i>IEEE Access</i> , 2021, 9, 89222-89233.	2.6	15
3	A CNN-based method to reconstruct 3-D spine surfaces from US images in vivo. <i>Medical Image Analysis</i> , 2021, 74, 102221.	7.0	11
4	Estimation of Vascular Permeability in Irregularly Shaped Cancers Using Ultrasound Poroelastography. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1083-1096.	2.5	15
5	Modeling and Analysis of Ultrasound Elastographic Axial Strains for Spine Fracture Identification. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 898-909.	1.7	3
6	Identification of ultrasound imaging markers to quantify long bone regeneration in a segmental tibial defect sheep model in vivo. <i>Scientific Reports</i> , 2020, 10, 13646.	1.6	10
7	A Spline Interpolation-based Data Reconstruction Technique for Estimation of Strain Time Constant in Ultrasound Poroelastography. <i>Ultrasonic Imaging</i> , 2020, 42, 5-14.	1.4	1
8	Non-invasive imaging of Young's modulus and Poisson's ratio in cancers in vivo. <i>Scientific Reports</i> , 2020, 10, 7266.	1.6	43
9	An Analytical Poroelastic Model of a Nonhomogeneous Medium Under Creep Compression for Ultrasound Poroelastography Applications Part I. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	6
10	Estimation of mechanical parameters in cancers by empirical orthogonal function analysis of poroelastography data. <i>Computers in Biology and Medicine</i> , 2019, 111, 103343.	3.9	5
11	Non-Invasive Imaging of Normalized Solid Stress in Cancers in Vivo. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2019, 7, 1-9.	2.2	12
12	A New Poroelastography Method to Assess the Solid Stress Distribution in Cancers. <i>IEEE Access</i> , 2019, 7, 103404-103415.	2.6	8
13	An analytical poroelastic model of a spherical tumor embedded in normal tissue under creep compression. <i>Journal of Biomechanics</i> , 2019, 89, 48-56.	0.9	18
14	A Robust Method to Estimate the Time Constant of Elastographic Parameters. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1358-1370.	5.4	5
15	An Analysis of the Error Associated to Single and Double Exponential Approximations of Theoretical Poroelastic Models. <i>Ultrasonic Imaging</i> , 2019, 41, 94-114.	1.4	3
16	Ultrasound shear wave elastography effectively predicts integrity of ventral hernia repair using acellular dermal matrix augmented with platelet-rich plasma (PRP). <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2019, 33, 2802-2811.	1.3	5
17	An Analytical Poroelastic Model of a Nonhomogeneous Medium Under Creep Compression for Ultrasound Poroelastography Applications Part II. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	5
18	Assessment of the long bone inter-fragmentary gap size in ultrasound strain elastograms. <i>Physics in Medicine and Biology</i> , 2019, 64, 025014.	1.6	4

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19	An analytical poroelastic model for ultrasound elastography imaging of tumors. <i>Physics in Medicine and Biology</i> , 2018, 63, 025031.	1.6	14
20	Bone surface enhancement in ultrasound images using a new Doppler-based acquisition/processing method. <i>Physics in Medicine and Biology</i> , 2018, 63, 025035.	1.6	3
21	A New Method for Estimating the Effective Poisson's Ratio in Ultrasound Poroelastography. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1178-1191.	5.4	35
22	A model-based approach to investigate the effect of elevated interstitial fluid pressure on strain elastography. <i>Physics in Medicine and Biology</i> , 2018, 63, 215011.	1.6	10
23	A Model-Based Approach to Investigate the Effect of a Long Bone Fracture on Ultrasound Strain Elastography. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2704-2717.	5.4	10
24	A novel filter for accurate estimation of fluid pressure and fluid velocity using poroelastography. <i>Computers in Biology and Medicine</i> , 2018, 101, 90-99.	3.9	6
25	Characterization of ventral incisional hernia and repair using shear wave elastography. <i>Journal of Surgical Research</i> , 2017, 210, 244-252.	0.8	6
26	Effect of bone-soft tissue friction on ultrasound axial shear strain elastography. <i>Physics in Medicine and Biology</i> , 2017, 62, 6074-6091.	1.6	11
27	Spine surface detection from local phase-symmetry enhanced ridges in ultrasound images. <i>Medical Physics</i> , 2017, 44, 5755-5767.	1.6	10
28	Effect of Interstitial Fluid Pressure on Ultrasound Axial Strain and Axial Shear Strain Elastography. <i>Ultrasonic Imaging</i> , 2017, 39, 137-146.	1.4	12
29	A New Class of Phantom Materials for Poroelastography Imaging Techniques. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1230-1238.	0.7	9
30	Ultrasound elastography assessment of bone/soft tissue interface. <i>Physics in Medicine and Biology</i> , 2016, 61, 131-150.	1.6	14
31	Effect of Temporal Acquisition Parameters on Image Quality of Strain Time Constant Elastography. <i>Ultrasonic Imaging</i> , 2015, 37, 87-100.	1.4	6
32	Platelet-Rich Plasma Enhances Mechanical Properties of Non-Crosslinked Acellular Dermal Matrices in Rat Model of Ventral Hernia Repair. <i>Journal of the American College of Surgeons</i> , 2015, 221, S76.	0.2	1
33	Effect of Permeability on the Performance of Elastographic Imaging Techniques. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 189-199.	5.4	12
34	A hybrid CPU-GPGPU approach for real-time elastography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2631-2645.	1.7	16
35	Performance Analysis of a New Real-Time Elastographic Time Constant Estimator. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 497-511.	5.4	22
36	Fundamental image quality parameters of poroelastography. , 2011, , .		1

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37	Elastography: A Decade of Progress (2000-2010). <i>Current Medical Imaging</i> , 2011, 7, 292-312.	0.4	25
38	Elastography Using Harmonic Ultrasonic Imaging: A Feasibility Study. <i>Ultrasonic Imaging</i> , 2010, 32, 103-117.	1.4	21
39	Characterization of controlled bone defects using 2D and 3D ultrasound imaging techniques. <i>Physics in Medicine and Biology</i> , 2010, 55, 4839-4859.	1.6	22
40	The feasibility of estimating and imaging the mechanical behavior of poroelastic materials using axial strain elastography. <i>Physics in Medicine and Biology</i> , 2007, 52, 3241-3259.	1.6	38
41	The feasibility of using poroelastographic techniques for distinguishing between normal and lymphedematous tissues <i>in vivo</i> . <i>Physics in Medicine and Biology</i> , 2007, 52, 6525-6541.	1.6	62
42	Assessing image quality in effective Poisson's ratio elastography and poroelastography: I. <i>Physics in Medicine and Biology</i> , 2007, 52, 1303-1320.	1.6	26
43	Resolution of axial shear strain elastography. <i>Physics in Medicine and Biology</i> , 2006, 51, 5245-5257.	1.6	25
44	A New Method for Generating Poroelastograms in Noisy Environments. <i>Ultrasonic Imaging</i> , 2005, 27, 201-220.	1.4	22
45	A method for generating permeability elastograms and Poisson's ratio time-constant elastograms. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 803-816.	0.7	46
46	The feasibility of using elastography for imaging the Poisson's ratio in porous media. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 215-228.	0.7	109
47	Lateral resolution in elastography. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 695-704.	0.7	68
48	Elastography: Imaging the elastic properties of soft tissues with ultrasound. <i>Journal of Medical Ultrasonics</i> (2001), 2002, 29, 155-171.	0.6	286
49	Axial resolution in elastography. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 101-113.	0.7	115
50	The feasibility of elastographic visualization of HIFU-induced thermal lesions in soft tissues. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 641-647.	0.7	118
51	Elastographic characterization of HIFU-induced lesions in canine livers. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 1099-1113.	0.7	185