

# Francesco Conversano

## List of Publications by Year in descending order

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89  
papers

1,863  
citations

331259

21  
h-index

276539

41  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Major osteoporotic fragility fractures: Risk factor updates and societal impact. World Journal of Orthopedics, 2016, 7, 171.	0.8	344
2	Screening and early diagnosis of osteoporosis through X-ray and ultrasound based techniques. World Journal of Radiology, 2013, 5, 398.	0.5	128
3	Cellulose Derivative~Hyaluronic Acid-Based Microporous Hydrogels Cross-Linked through Divinyl Sulfone (DVS) To Modulate Equilibrium Sorption Capacity and Network Stability. Biomacromolecules, 2004, 5, 92-96.	2.6	106
4	Optimal Enhancement Configuration of Silica Nanoparticles for Ultrasound Imaging and Automatic Detection at Conventional Diagnostic Frequencies. Investigative Radiology, 2010, 45, 715-724.	3.5	82
5	Magnetic/Silica Nanocomposites as Dual~Mode Contrast Agents for Combined Magnetic Resonance Imaging and Ultrasonography. Advanced Functional Materials, 2011, 21, 2548-2555.	7.8	82
6	A Novel Ultrasound Methodology for Estimating Spine Mineral Density. Ultrasound in Medicine and Biology, 2015, 41, 281-300.	0.7	79
7	Entropy Index in Quantitative EEG Measurement for Diagnosis Accuracy. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1440-1450.	2.4	70
8	Hepatic Vessel Segmentation for 3D Planning of Liver Surgery. Academic Radiology, 2011, 18, 461-470.	1.3	57
9	Radiofrequency echographic multispectrometry compared with dual X-ray absorptiometry for osteoporosis diagnosis on lumbar spine and femoral neck. Osteoporosis International, 2019, 30, 391-402.	1.3	56
10	Fully Automatic Segmentations of Liver and Hepatic Tumors From 3-D Computed Tomography Abdominal Images: Comparative Evaluation of Two Automatic Methods. IEEE Sensors Journal, 2012, 12, 464-473.	2.4	47
11	Hydrogel based tissue mimicking phantom for <i>in vitro</i> ultrasound contrast agents studies. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 338-345.	1.6	42
12	Harmonic Ultrasound Imaging of Nanosized Contrast Agents for Multimodal Molecular Diagnoses. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1848-1856.	2.4	41
13	Low-frequency detection in ECG signals and joint EEG-Ergospirometric measurements for precautionary diagnosis. Measurement: Journal of the International Measurement Confederation, 2013, 46, 97-107.	2.5	37
14	In Vitro Evaluation and Theoretical Modeling of the Dissolution Behavior of a Microbubble Contrast Agent for Ultrasound Imaging. IEEE Sensors Journal, 2012, 12, 496-503.	2.4	35
15	An Advanced Quantitative Echosound Methodology for Femoral Neck Densitometry. Ultrasound in Medicine and Biology, 2016, 42, 1337-1356.	0.7	33
16	Full experimental modelling of a liver tissue mimicking phantom for medical ultrasound studies employing different hydrogels. Journal of Materials Science: Materials in Medicine, 2009, 20, 983-989.	1.7	32
17	Mutidimensional analysis of EEG features using advanced spectral estimates for diagnosis accuracy. , 2013, , .		32
18	Experimental Investigations of Nonlinearities and Destruction Mechanisms of an Experimental Phospholipid-Based Ultrasound Contrast Agent. Investigative Radiology, 2007, 42, 95-104.	3.5	29

#	ARTICLE	IF	CITATIONS
19	A quantitative and automatic echographic method for real-time localization of endovascular devices. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2107-2117.	1.7	29
20	Sonographic markers for early diagnosis of fetal malformations. World Journal of Radiology, 2013, 5, 356.	0.5	25
21	A quantitative ultrasound approach to estimate bone fragility: A first comparison with dual X-ray absorptiometry. Measurement: Journal of the International Measurement Confederation, 2017, 101, 243-249.	2.5	23
22	Epithelial cell biocompatibility of silica nanospheres for contrast-enhanced ultrasound molecular imaging. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	21
23	Ultrasound Fragility Score: An innovative approach for the assessment of bone fragility. Measurement: Journal of the International Measurement Confederation, 2017, 101, 236-242.	2.5	21
24	Echographic detectability of optoacoustic signals from low-concentration PEG-coated gold nanorods. International Journal of Nanomedicine, 2012, 7, 4373.	3.3	20
25	Multiparametric Evaluation of the Acoustic Behavior of Halloysite Nanotubes for Medical Echographic Image Enhancement. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1423-1430.	2.4	20
26	Experimental investigation and theoretical modelling of the nonlinear acoustical behaviour of a liver tissue and comparison with a tissue mimicking hydrogel. Journal of Materials Science: Materials in Medicine, 2008, 19, 899-906.	1.7	19
27	New perspectives in echographic diagnosis of osteoporosis on hip and spine. Clinical Cases in Mineral and Bone Metabolism, 2015, 12, 142-50.	1.0	17
28	Advanced spectral analyses for real-time automatic echographic tissue-typing of simulated tumor masses at different compression stages. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 2692-701.	1.7	16
29	Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. IEEE Sensors Journal, 2013, 13, 2305-2312.	2.4	16
30	Surface Coating Highly Improves Cytocompatibility of Halloysite Nanotubes: A Metabolic and Ultrastructural Study. IEEE Nanotechnology Magazine, 2016, 15, 770-774.	1.1	16
31	Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. IEEE Sensors Journal, 2013, 13, 2341-2347.	2.4	15
32	Human Hepatocarcinoma Cell Targeting by Glypican-3 Ligand Peptide Functionalized Silica Nanoparticles: Implications for Ultrasound Molecular Imaging. Langmuir, 2017, 33, 4490-4499.	1.6	15
33	Multispectrum Approach in Quantitative EEG: Accuracy and Physical Effort. IEEE Sensors Journal, 2013, 13, 3331-3340.	2.4	14
34	Magnetically-coated silica nanospheres for dual-mode imaging at low ultrasound frequency. World Journal of Radiology, 2013, 5, 411.	0.5	14
35	Echographic imaging of tumoral cells through novel nanosystems for image diagnosis. World Journal of Radiology, 2014, 6, 459.	0.5	13
36	Automatic ultrasound technique to measure angle of progression during labor. Ultrasound in Obstetrics and Gynecology, 2017, 50, 766-775.	0.9	12

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37	A new automatic phase mask filter for high-resolution brain venography at 3 T: theoretical background and experimental validation. Magnetic Resonance Imaging, 2010, 28, 511-519.	1.0	11
38	Assessment of the enhancement potential of Halloysite Nanotubes for echographic imaging. , 2013, , .		11
39	An Innovative Ultrasound Signal Processing Technique to Selectively Detect Nanosized Contrast Agents in Echographic Images. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2136-2145.	2.4	11
40	Estimation of femoral neck bone mineral density by ultrasound scanning: Preliminary results and feasibility. Measurement: Journal of the International Measurement Confederation, 2016, 94, 480-486.	2.5	11
41	Polymeric meshes for internal sutures with differentiated adhesion on the two sides. Journal of Materials Science: Materials in Medicine, 2005, 16, 289-296.	1.7	10
42	A new approach for measuring the trabecular bone density through the echosound backscattering: An ex vivo validation on human femoral heads. Measurement: Journal of the International Measurement Confederation, 2016, 87, 51-61.	2.5	10
43	Measuring Lung Abnormalities In Images-Based Ct. International Journal on Smart Sensing and Intelligent Systems, 2016, 9, 1156-1176.	0.4	10
44	Improving automatic segmentation of tissue-targeted nanoparticles on echographic images. , 2011, , .		9
45	Cytotoxicity measurements of Halloysite Nanotubes for nanomedicine applications. , 2014, , .		9
46	EEG signal processing and acquisition for detecting abnormalities via bio-implantable devices. , 2016, , .		9
47	Novel artificial intelligence approach for automatic differentiation of fetal occiput anterior and non-occiput anterior positions during labor. Ultrasound in Obstetrics and Gynecology, 2022, 59, 93-99.	0.9	9
48	Automatic Evaluation of Progression Angle and Fetal Head Station through Intrapartum Echographic Monitoring. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	0.7	8
49	New technique for automatic sonographic measurement of change in head-perineum distance and angle of progression during active phase of second stage of labor. Ultrasound in Obstetrics and Gynecology, 2020, 56, 597-602.	0.9	8
50	Thermal image processing for accurate realtime decision making in surgery. , 2014, , .		7
51	Automatic Echographic Detection of Halloysite Clay Nanotubes in a Low Concentration Range. Nanomaterials, 2016, 6, 66.	1.9	6
52	In-vitro study of human proximal femur microstructure: analysis of the relationship between micro-computed tomography data and quantitative ultrasound parameters. IET Science, Measurement and Technology, 2016, 10, 193-199.	0.9	6
53	Validation of an automatic segmentation method to detect vertebral interfaces in ultrasound images. IET Science, Measurement and Technology, 2016, 10, 18-27.	0.9	6
54	Innovative ultrasound approach to estimate spinal mineral density: diagnostic assessment on overweight and obese women. IET Science, Measurement and Technology, 2016, 10, 1-9.	0.9	5

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55	A novel dual-frequency method for selective ultrasound imaging of targeted nanoparticles. , 2011, , .		4
56	Nanocomposites for multimodal molecular imaging. , 2011, , .		4
57	Automatic image detection of Halloysite clay Nanotubes as a future ultrasound theranostic agent for tumoral cell targeting and treatment. , 2014, , .		4
58	Fully automatic 3D segmentation measurements of human liver vessels from contrast-enhanced CT. , 2014, , .		3
59	Automatic measurement of head-perineum distance during intrapartum ultrasound: description of the technique and preliminary results. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 2759-2764.	0.7	3
60	MODELING AND DESIGNING A FULL BEAMFORMER FOR ACOUSTIC SENSING AND MEASUREMENT. International Journal on Smart Sensing and Intelligent Systems, 2017, 10, 718-734.	0.4	3
61	Ultrasound detection of nanoparticle contrast agents for multimodal molecular imaging. , 2011, , .		2
62	A new ultrasonic method for lumbar spine densitometry. , 2013, , .		2
63	Multi-frequency differential image enhancement of nanosized ultrasound contrast agents. , 2014, , .		2
64	Automatic method for vertebral morphometry measurements. IET Science, Measurement and Technology, 2016, 10, 327-334.	0.9	2
65	Simulated Measurements of the Magnetic Behavior of New Dual-Mode Nanosized Contrast Agents. IEEE Nanotechnology Magazine, 2017, 16, 842-850.	1.1	2
66	Ultrasound harmonic behaviour of artificial tissues. , 0, , .		1
67	Advanced spectral analysis for automatic echographic monitoring of an evolving tumour mass. , 2011, , .		1
68	Experimental assessment of gold nanorods for optoacoustic imaging in a tissue-mimicking phantom. , 2011, , .		1
69	Quantitative and automatic echographic monitoring of labor progression. , 2012, , .		1
70	Laser fluence and exposure time effects on optoacoustic signal from gold nanorods for enhanced medical imaging. , 2014, , .		1
71	Effective Targeting of Hepatocellular Carcinoma through Glypican-3 Ligand Peptide Functionalization of Silica Nanoparticles. , 2015, , .		1
72	Highly Improved Cytocompatibility of Halloysite Nanotubes through Polymeric Surface Modification. , 2015, , .		1

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73	Nanocircuits for a Bio-Implantable System in EEG Signal Acquisitions. , 2015, , .		1
74	Ultrasound Signal Enhancement of Halloysite Clay Nanotubes at Medical Diagnostic Frequencies. , 2015, , .		1
75	Microsensors and energy harvesting for thermotherapy: Design and characterization. , 2015, , .		1
76	A new ultrasound parameter for osteoporosis diagnosis: Clinical validation on normal- and under-weight women. , 2015, , .		1
77	Determining Shapes and Sizes Using TEM Images: Functionalized Nanoparticles. , 2016, , .		1
78	Pulse-Echo Measurements of Bone Tissues. Techniques and Clinical Results at the Spine and Femur. Advances in Experimental Medicine and Biology, 2022, 1364, 145-162.	0.8	1
79	Low microbubble concentrations signal enhancement varying echograph electrical power. , 2005, , .		0
80	Low-frequency ultrasound contrast enhancement behavior of a new nano-system for dual-mode imaging. , 2011, , .		0
81	Characterization of iron oxide-gold core-shell multifunctional nanoparticles in biomedical imaging. , 2011, , .		0
82	Gold nanorod coating influence on effectiveness and safety in photoacoustic applications. , 2012, , .		0
83	SAT0491â€¦Accuracy of A New Ultrasonic Method for Osteoporosis Diagnosis on Lumbar Spine. Annals of the Rheumatic Diseases, 2014, 73, 770.3-771.	0.5	0
84	SAT0468â€¦An Innovative Ultrasound-Based Method for the Estimation of Osteoporotic Fracture Risk. Annals of the Rheumatic Diseases, 2014, 73, 763.1-763.	0.5	0
85	A Dual Frequency Ultrasound Technique for the Improved Detection of Bimodal Nanosized Contrast Agents. , 2015, , .		0
86	Comparative Assessment of the MRI Enhancement Power of Novel Nanosystems Through Theoretical Simulations. , 2015, , .		0
87	Ultrasound Osteoporosis Score: A novel parameter for the estimation of spine mineral density. , 2015, , .		0
88	Ex-vivo measurements of quantitative ultrasound and micro-CT parameters on intact human femoral heads. , 2015, , .		0
89	Model simulations and comparative evaluations of susceptibility-based and gadolinium contrast enhancement for high-resolution brain venography. , 2016, , .		0