

Publications

- A. Cannatà, S. Di Meo, S. Morganti, G. Matrone, M. Pasian, "Gelatin-Based Tissue-Mimicking Materials for Breast Phantoms: Dielectric and Mechanical Characterization," in International Union of Radio-Science URSI GASS, Rome, 2021.
- S. Di Meo, A. Cannatà, C. Macchello, S. Morganti, M. Pasian, G. Matrone "Bi-modal tissue-mimicking breast phantoms: comparison between performances of agar- and gelatin-based phantoms," in International Union of Radio-Science URSI AT-AP-RASC, Gran Canaria, 2022.
- S. Di Meo, A. Cannatà, S. Morganti, G. Matrone, M. Pasian, "On the dielectric and Mechanical characterization of tissue-mimicking breast phantoms," in Physics in Medicine and Biology (IOP Publishing), Vol. 67, 155018, 2022.
- A. Cannatà, S. Di Meo, S. Morganti, M. Pasian, G. Matrone, "Dielectric And Mechanical Characterization Of Gelatin- And Agar-Based Breast Phantoms: Comparison Between Gelatin- And Agar-Based Phantom Performances", XXIV Riunione Nazionale di Elettromagnetismo (XXIV RiNEm), Catania, September 2022.
- A. Cannatà, S. Di Meo, S. Morganti, M. Pasian, G. Matrone, "Dielectric, Mechanical and Acoustic Characterization of Multi-Modal Tissue-Mimicking Breast Phantoms," in IEEE International Ultrasound Symposium (IUS) 2022, Venice, October 2022.
- A. Cannatà, S. Di Meo, G. Matrone, S. Morganti, M. Pasian, "Multimodal tissue-mimicking breast phantoms for mm-wave and ultrasound imaging," in European Conference on Antennas and Propagation (EuCAP), Firenze, March 2023.
- S. Di Meo, A. Cannatà, C.B. Angulo, G. Matrone, J.M.S. Navarro, R.G. Mazon, H.G. Martinez, E.A. Navarro, M. Pasian, "Development of Multi-Layer Tissue-Mimicking Breast Phantoms for Microwaves and Millimeter-Waves Imaging", in International Microwave Biomedical Conference (IMBIOC) 2023, Leuven, September 2023.
- A. Cannatà, A. Shahzad, M. O'Halloran, A. Elahi, M. Pasian, S. Di Meo, G. Matrone, B. Amin, "Numerical Assessment of Microwave Bone Imaging: Reconstruction of Realistic Phantoms for Diagnosing Different Bone Diseases", in International Conference on Applied Electromagnetics and Communications (ICECOM) 2023, Dubrovnik, September 2023.
- A. Cannatà, A. Elahi, M. O'Halloran, M. Pasian, S. Di Meo, G. Matrone, B. Amin, 17-22 March 2024, "Microwave Tomography Bone Imaging: Analysing the Impact of Skin Thickness on the Reconstruction of Numerical Bone Phantoms," in European Conference on Antennas and Propagation (EuCAP), Glasgow, March 2024.
- S. Di Meo, A. Cannatà, C.B. Angulo, G. Matrone, A. Martinez-Lozano, J. Arias-Rodriguez, J.M. Sabater Navarro, H.G. Martinez, E.A. Navarro, M. Pasian, "Multi-Layer Tissue-Mimicking Breast Phantoms for Microwave-Based Imaging Systems," in IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2024.
- A. Cannatà, M. O'Halloran, A. Elahi, M. Pasian, S. Di Meo, G. Matrone, B. Amin, "Microwave Bone Imaging: Reconstruction of Anthropomorphic Numerical Calcaneus Phantoms for Bone Diseases Diagnosis", IEEE Access, 2024.
- A. Cannatà, A. Elahi, M. O'Halloran, M. Pasian, S. Di Meo, G. Matrone, B. Amin, "Exploring Microwave Bone Imaging: Preliminary Reconstructions of Realistic Calcaneus Phantoms in Experimental Settings for Bone Health Monitoring," in Annual International Conference of the IEEE Medicine and Biology Society (EMBC), Orlando, July 2024.

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- A. Cannatà, A. Elahi, M. O'Halloran, M. Pasian, S. Di Meo, G. Matrone, B. Amin, "Preliminary experimental reconstructions of calcaneus phantoms for bone health monitoring via microwave imaging," XXV Riunione Nazionale di Elettromagnetismo (XXV RiNEm), Viareggio, September 2024.