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Postdoctoral Researcher at Aristotle University of Thessaloniki (Physics Department) - Magnetic Nanostructure Characterization Technology & Applications (Magna Charta) lab.

Academic teaching experience includes instructing a physics course in the Department of Environmental Engineering's first semester (22-23). (Thessaloniki).

About myself: Antonios Makridis is a physicist who received his Ph.D. in magnetic nanoparticles and their biological and industrial applications from Aristotle University of Thessaloniki's Physics Department in 2019. Following that, he was awarded a State Scholarships Foundation (Y) scholarship for a postdoctoral position at the Center for Interdisciplinary Research and Innovation (CIRI-AUTH) until 2021. He has worked as a material science and physics researcher on the synthesis of iron-based magnetic nanostructures and on their use as agents in biological applications. A research fellowship enabled him to work at Aristotle University's Departments of Physics and Chemistry on Fundamental Research in the Magnetic Particle Hyperthermia field, with a focus on the development of a standardized magnetic hyperthermia protocol. During that time, he studied a wide range of nanoparticle systems, including metal oxides and monometallic and bimetallic structures, as well as their synthetic properties, structural and magnetic characterization, and applicability and use as magnetoelectric systems. He worked as a school ambassador in a Twinning | Horizon 2020 research institutional networking program of nanohybrids from 2013 to mid-2021, with a role to train young researchers in robust structural and magnetic characterization. He has also taken part in several short-term scientific missions, which allowed him to collaborate with various European Institutes. His primary focus was on iron magnetic nanoparticles and their potential applications in magnetic hyperthermia. Dr. Makridis' research interests include the chemical synthesis and characterization of various types of nanoparticles, either for specific applications or out of pure scientific curiosity. He is also an expert in standardizing and developing new experimental protocols for modern nanoparticle applications. Finally, he discusses current and relevant issues in modern applied magnetism research, specifically the creation of novel magnetic structures and devices using 3D printing technology. He has published 24 manuscripts in peer-reviewed journals and received 821 citations from 723 documents (Scopus 01/2023, h-index 12) while also serving as a reviewer in several international scientific journals.