

Short CV

Name	Maria Katsikini
Personal web	people.auth.gr/katsiki
Position	Professor, School of Physics, AUTH
Studies	• PhD in Physics, School of Physics, AUTH in collaboration with the Hahn Meitner Institut Berlin (2000) • BSc in Physics, School of Physics, AUTH (1995)
Scientific Expertise	• Professor, School of Physics, AUTH, 2022-today • Associate Professor, School of Physics, AUTH, 2016-2022 • Assistant Professor, School of Physics, AUTH, 2010-2016 • Lecturer, School of Physics, AUTH, 2004-2010 • Post Doctoral Fellow (Greek Scholarship Foundation-IKY), School of Physics, AUTH (11/2001-12/2002).
Teaching	• 2 postgraduate courses • 8 undergraduate courses
Research Activities	• 2 book chapters (Springer) • 103 publications in international peer-reviewed journals (1422 citations, h-index=20) • 21 publications in conference proceedings of international conferences • Editor of Summer School Proceedings (1) • Project leader of 22 research programs (1 Post Doctoral research program funded by IKY, 20 projects in Synchrotron Radiation Facilities, 1 IKYDA project). • Participation in 12 research programs • Member of the Organizing Committee of 5 conferences, 2 Summer Schools (chair, secretary or member) and 2 workshops (member) • Referee in 26 international scientific journals, of proposals submitted to Synchrotron Radiation Facilities and Italian and Swiss research projects • Supervision of 3 PhD Theses (1 is in progress). Member of Advisory Committees in 3 PhD These (1 is in progress). Supervisor of 34 MSc and BSc Theses • 20 invited talks • Presentations in 66 international (personal participation in 24) & and 27 local (personal participation in 18) conferences • L'Oreal – UNESCO award for "Women in Science" (greek program, 2007), 2 best-poster awards (in 1 local and 1 international conference), 1st award "Greece Innovates!" (responsible Assoc. Prof. of Chem. Eng. M. Mitrakas). • President of the Hellenic Society for the Science and technology of Condensed Matter (since 2020) and member of the Executive Board of European Synchrotron Radiation and FEL Users Organization

	(2026). Research Interests: Study of materials using Synchrotron Radiation mainly with X-ray absorption (XAFS), Fluorescence (XRF) and Photoelectron (XPS) spectroscopies, Small Angle X-ray scattering (SAXS) and Raman spectroscopy. Types of materials: semiconductors, glass and glass – ceramics, solid biological samples, oxides for toxic element removal, palaeontological findings, hard and soft tissues, biomolecules, biomineralization, nano-magnetic materials. Scopus ID: 7004175625, ORCID ID: 0000-0002-8059-5539
Five most important publications	1. "Experimental determination of the N-p-partial density of states in the conduction band of GaN: Determination of the polytype fractions in mixed phase samples", M. Katsikini, E. C. Paloura, T. D. Moustakas, Journal of Applied Physics 83, 1437 (1998) 2. "Raman study of Mg, Si, O, and N implanted GaN", M. Katsikini, K. Papagelis, E. C. Paloura, S. Ves, Journal of Applied Physics 94, 4389 (2003) 3. "Tetravalent manganese feroxyhyte: A novel nanoadsorbent equally selective for As(III) and As(V) removal from drinking water", S. Tresintsi, K. Simeonidis, S. Estradé, C. Martinez-Boubeta, G. Vourlias, F. Pinakidou, M. Katsikini, E. C. Paloura, G. Stavropoulos, M. Mitrakas, Environmental Science and Technology, 47, 9699 (2013). 4. "Fe distribution and speciation in human nails", M. Katsikini, F. Pinakidou, E. Mavromati, E. C. Paloura, D. Gioulekas, D. Grolimund, Nuclear Instruments and Methods B 268, 420 (2010). Scopus 5. "Spatial distribution and stability of Gd_{0.6}Eu_{0.4}VO₄ nanoparticles injected in mouse ear pinnae" E. Proiou, F. Pinakidou, E.C. Paloura, N. Pétri, T. Gacoin, C. Laplace-Builhé, G. Schuck, A. Alexandrou, M. Katsikini, Trends in Analytical Chemistry, 182, art. no. 118049 (2025).