

HUDA AKKAYA Nationality: Turkish Contact details: <u>huda.akkaya@issmc.cnr.it</u>

About me	I'm a physics engineer with experience in the field of in materials science, semiconductor physics, and sol-gel coating techniques, Secondary ion mass spectrometry, Chemical gas sensor. Throughout my studies, I have worked in the production of different kind of materials in a clean room, usually using the
	sol-gel system.
Work experience	February 2024 – Present
	Ph.D. students, i adata
	As part of the project "Synthesis, Characterization, and Modelling of Thin Multifunctional Ceramic Coatings for Industrial Applications," my main tasks include modifying the chemical and physical properties of material surfaces to control wetting behavior, designing and developing advanced coatings and deposition techniques for hierarchically structured micro/nanostructures, and developing suitable
	Development of multilayer thermochromic coatings on different kind of glass substrates.
	August 2023 - October 2023
	Institute of Materials for Electronics and Magnetism (IMEM), Parma, Italy
	Erasmus Ph.D. student Numeric tools is to surplus the size $M_{2}C_{2}$ the dimensional metaric lucing Chemical Varian Departies (CVD)
	technique to understand its mechanical and electronic properties.
	October 2019 – February 2024
	Photonics Application and Research Center, Ankara, Turkey
	Project Engineer
	As main responsibility, I have performed Secondary Ion Mass Spectrometry (SIMS) measurements for
	inversive years. Performing optical analysis of the materials developed within the scope of the project,
	analyzing the crystals to be developed and performing the tasks assigned in other R&D activities carried
	L took an active role in the microfabrication and characterization of hydrogen gas sensors
	In this project "Production of Porous Glass by Leaching Process Lising HE and H-SO. Acids " Letched
	alass using acid mixtures to achieve the optimal pore size suitable for optical filter applications
	2024 – Present
Education	Doctor of Philosophy – Ph.D. in Material Science and Technology
	(XXiX Cvcle 2024-2027)
	<u>2019-2022</u>
	Graduation M.Sc. degree in Physics, Ankara, Turkey
	Applied Solid State Physics
	Gazi University
	Thesis title: "Production of Nb ₂ O ₅ thin films in different thicknesses by sol-gel coating method and their
	H2 sensor applications.
	Also, within the scope of the thesis; I produced thin films of different thicknesses (1,2 and 3 layers) and investigated the effect of thickness on the sensing mechanism of the sensor.
	I also investigated the effect of rotational speeds on the thickness of thin films.
	Investigation of optical and morphological properties of MgZnO thin films produced by sputtering at
	different annealing temperatures.
	Main Courses: Sol-gel coating system, Crystal Upsizing Techniques, Advanced Solid-State Physics,
	Advanced Solid-State Physics
	2012-2017
	Graduation – B.Sc. degree in Engineering Physics
	Hacettepe University
	Main Courses: Physics and Technology of Semiconductor Materials Science. Thin Film Techniques
	and Applications. Optics and applications Advanced Solid-State Physics
Publications	DOI: 10.1007/s10854-023-10339-4
Languages	Turkish: mother tongue; English: C1; Italian: A1
	Microsoft Office and all main digital tools
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Skills	Origin Sigma plot
Skills	Origin, Sigma plot Microfabrication, SIMS, Data analysis, CVD, Sol-gel coating