Georgios Charalambidis

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Georgios Charalambidis is an Associate Researcher at the Theoretical and Physical Chemistry Institute of the National Hellenic Research Foundation (NHRF). He holds a B.Sc., M.Sc., and Ph.D. in Chemistry from the University of Crete, where he specialized in inorganic and bioinorganic chemistry and initiated his long-standing engagement with artificial photosynthesis and functional chromophore–catalyst systems. Over the past years, he has developed an extensive research portfolio spanning photocatalytic hydrogen production, CO_2 reduction, dye-sensitized photocatalytic systems (DSPs), porphyrin-based nanostructures, and supramolecular self-assembly.

He has served as Principal Investigator of an HFRI-funded project on bio-inspired photocatalytic systems and has collaborated with leading laboratories across Europe in areas ranging from photoelectrochemistry to advanced photophysical studies. Dr. Charalambidis has authored more than 100 peer-reviewed publications. His current research centers on solar-driven photocatalytic processes for sustainable fuel production and carbon management, with an emphasis on molecular design, interfacial photophysics, and hybrid chromophore–semiconductor assemblies.