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His research bridges chemistry and physics, focusing on novel nanomaterials and techniques for energy conversion and sustainability. He has published over 150 scientific articles, one book, co-founded two spin-offs and holds four patents in these areas.
Emiliano studied chemistry at the National University of La Plata (UNLP), Argentina. He has received multiple European Commission awards, including a Marie Skłodowska-Curie Fellowship at Imperial College London and ERC Grants for his CATALIGHT and SURFLIGHT projects at LMU. In 2021, he was named Emerging Investigator in Materials Science by the Royal Society of Chemistry, and since 2022, he has ranked among the top 2% most cited researchers worldwide.
Emiliano is Principal Investigator in the German excellence cluster e-conversion and co-coordinator of its graduate program. He serves on the scientific board of the Center for NanoScience (CeNS) since 2020, is a member of the Bavarian initiative for Solar Technologies (SolTech), the Young Academy of Europe (YAE) and the American Chemical Society (ACS). In 2024, he was elected the first external Associate Researcher at TUM's Catalysis Research Center (CRC-TUM), and in 2025, he joined the Solar Batteries Center (TUM-MPI). Emiliano currently serves as CSO of INSyT Tech., a spin-off from his group specializing in advanced microscopy for energy research.
He co-edited the first book on Plasmonic Catalysis (Wiley, 2021) and serves on the editorial boards of ACS Nano, ACS Energy Letters, Advanced Photonics Nexus, and eScience. He has also guest-edited special issues in ACS Photonics and Communications Chemistry.