

Motivations Giulia Galli

For pioneering and innovative first-principles approaches to describe and understand the structural, chemical, electronic, and optical properties of liquids, solid/liquid interfaces, and heterogeneous nanomaterials. Giulia Galli has shown how the electronic structure of matter at the nanoscale can be tuned to tailor and engineer devices relevant to solar energy conversion, water resources, and quantum information technologies.

Motivations Alexander Szameit

For his pioneering work in the field of topological photonics by innovative and impactful experiments. Prof. Alexander Szameit demonstrated theoretically and experimentally the existence of topological wave phenomena in optical systems. These findings turned advanced mathematical concepts into applied science for new photonic technologies.