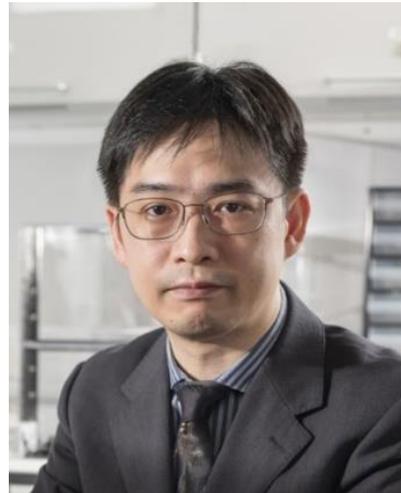


Professor Jensen Li
Professor, Department of Physics
The Hong Kong University of Science and Technology

Biography

Professor Jensen Li is a professor in the Department of Physics at the Hong Kong University of Science and Technology. He is currently the director of the Center for Metamaterials Research, working on optical metasurfaces, non-Hermitian systems, transformation optics and acoustic metamaterials. He has published more than one hundred peer-reviewed articles. His research group in Hong Kong and previously in UK has been supported by research grants from Hong Kong RGC and EU. He has led a collaborative research project on “Non-Hermitian Systems in Optics and Acoustics” across several local universities in Hong Kong. Professor Li is an elected member of Hong Kong Young Academy of Sciences and received Croucher Senior Research Fellow in 2022.



Professor Li's research revolves around various extraordinary optical phenomena given by metamaterials, with prominent examples such as invisibility cloaking and super-resolution imaging. His current interests are in transformation optics, metasurfaces, non-Hermitian optics and complex media. Apart from electromagnetic waves, he is keen on extending the concepts of metamaterials to acoustic and elastic waves. Metamaterials promise to provide exotic material properties based on tailor-made resonating micro-structures to provide material parameters that do not exist in conventional approaches. With the Croucher Senior Research Fellowship, he will explore new dimensions in constructing and applying metamaterials using non-Hermiticity from material gain and loss, time-varying capability of material parameters, currently known as time-varying metamaterials and applications of metamaterials in the quantum optical regime.