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Functional nanostructures and energy-driven water splitting

Recent advances in precise control over the shape and size of various nanoparticles have enabled the systematic engineering of their promising properties. To incorporate new functionalities, the different types of nanoparticles are also being coupled to form hybrid nanostructures (e.g. composite, core-shell and Janus) with combined optical, electronic and magnetic properties. In this talk, we will present our recent research on functional nanostructures and energy-driven water splitting.

Biography

Ming-Yong Han completed his PhD in Chemistry at Jilin University. He was at IBM and Indiana University before his current joint appointment as Senior Scientist at Institute of Materials Research and Engineering, Singapore. His research addresses problems at the interfaces of nanoscience, nanotechnology, and optoelectronics/biotechnology. His papers have been cited for ~15,000 times. His research has been highlighted for more than 300 times. He has more than 30 granted patents or pending applications.

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