

“Unveiling the Potential: Exploring Two-Dimensional Materials and its Interaction with Light and Other Materials”

Two-dimensional materials have revolutionized modern research, offering many unique properties and promising applications across different fields. Likewise, it is equally interesting to discover the interactions of these remarkable materials with light and other materials. Exploring light and two-dimensional materials interaction may introduce new properties with profound implications for next-generation electronics and photonics. In my talk, I will share our studies on the interactions of two-dimensional transition metal dichalcogenides, such as MoS_2 and WS_2 , and structured light. I will also briefly discuss the possible mechanisms of the interaction and possible applications.