The 34th Nanotechnology Seminar

水素製造のためのグラフェン,TMDCを利用した光触媒

Graphene and transition metal dichalcogenides-based photocatalysts for hydrogen generation

聴講自由

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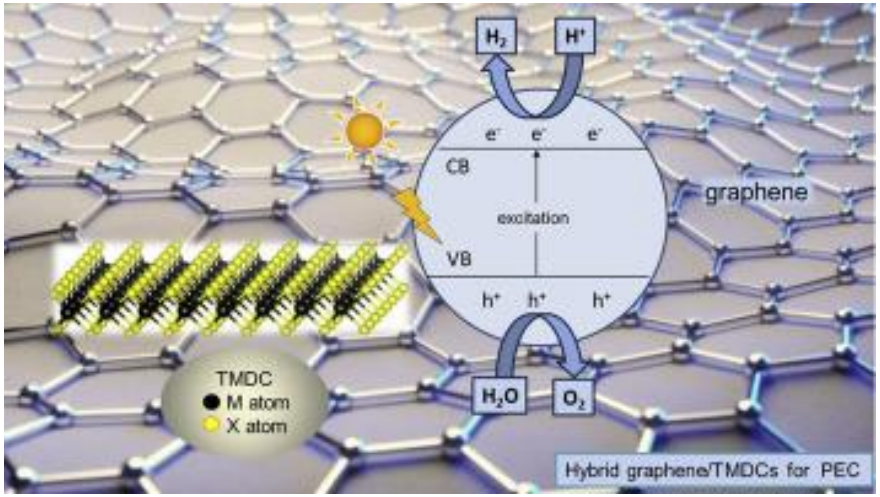
Oct. 18 (Thu) 11:00-12:00 3rd Floor of Global Innovation Center

Hydrogen production through photoelectrochemical (PEC) water-splitting process has drawn significant research attention because it is a promising clean source of energy for improving earth climate in the future. Two-dimensional (2D) graphene and transition metal dichalcogenides (TMDCs), as the core of the system, have become versatile materials for the development of photocatalyst due to their distinct optical, electrical, thermal and mechanical properties. In this talk, I will discuss our recent efforts to synthesize MoS_2 and graphene using hydrothermal and Chemical Vapor Deposition method for PEC hydrogen generation.



International of Hydrogen Energy, 10.1016/j.ijhydene.2018.08.126 (2018).

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