

## Xavier Marie



### Presentation title

Excitons in 2D Materials based on Transition Metal Dichalcogenides

Xavier Marie is Professor at the National Institute of Applied Sciences (University of Toulouse). His research focuses on electronic properties and optical spectroscopy of low dimensional semiconductor structures (quantum wells, quantum dots, 2D materials). Current topics include optical, valley and spin coherence in semiconductor nanostructures and band structure engineering of semiconductors for optical telecommunication devices and solar cells.

He has joined the Institut Universitaire de France in 2005 as a Junior member and in 2015 as a Senior member. He is currently in charge of the Laboratory of Excellence NEXT (Nano, EXtreme measurements and Theory).