



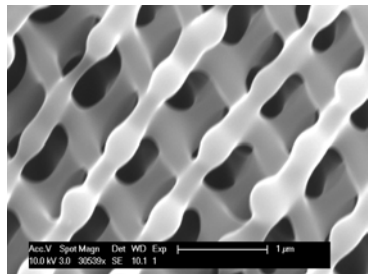
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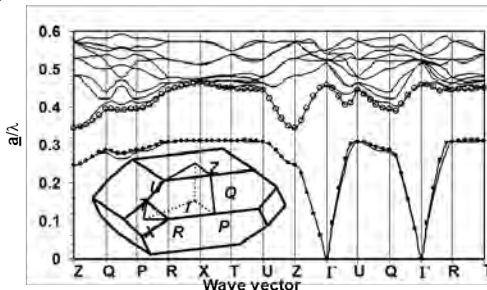
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Research: Nano-photonics; Photonic integrated circuit (photonic chip), 2D Semiconductor

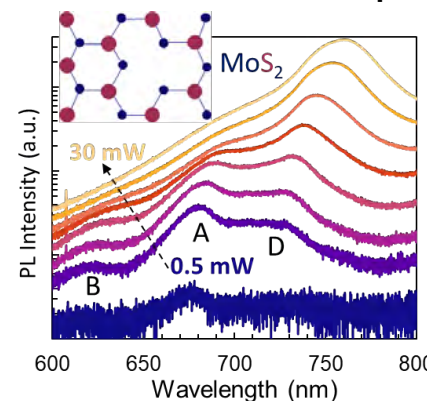
- Photonic crystal devices
 - Holographic micro-/nano-fabrication
 - E-beam lithography
 - Photonic crystal for photonic integration & photonic chip
 - Photonic band-gap simulation
 - Graded photonic super-crystal
 - Twistoptics
- 2D quantum and semiconductor materials and devices
 - LEDs, Solar cells, Sensors
 - Perovskites
 - 2D semiconductor dichalcogenides
 - Light-matter interaction
 - Quantum photonics
 - Neuromorphic photonics



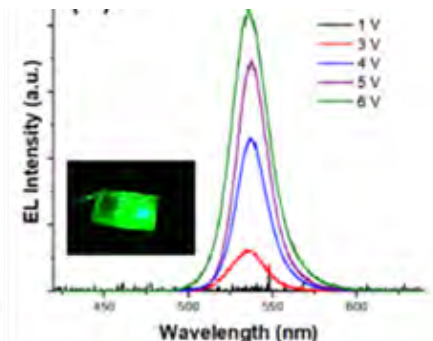
Photonic crystal



Photonic band structure



Stimulated emission



OLED

Projects funded by:

