平成 29 年度第 6 回 VBL セミナー

6th VBL Seminar, 2018

日時：平成 30 年 3 月 19 日（月）15 時 30 分～17 時 00 分

場所：工学研究科 1 号館 4 階 144 講義室

講師：Stefan Hecht 教授（Humboldt-Universität zu Berlin（ドイツ））
（VBL 客員教授）

題目: Controlling and Driving Molecular Processes with Light

要旨: Controlling molecular building blocks and their organization into nanostructured materials with specific functions constitutes the basis of modern bottom-up materials science. Using an external light stimulus to control such advanced materials in a dynamic fashion with superior spatial and temporal resolution offer tremendous opportunities and is at the heart of our group's research program. This presentation will highlight some recent examples from our laboratory in which carefully designed photoswitches with improved performance have been exploited to remote-control materials, specifically, some of our recent efforts to optimize various photoswitches, such as azobenzenes, diarylethenes, acylhydrazones, and indigos with regard to their switching characteristics and the use of these optimized photochromic building blocks to control dynamic polymeric materials as well as charge transport in optoelectronic devices and to drive optomechanical transduction.

References

Nat. Chem. **2012**, *4*, 675; *Nat. Commun.* **2015**, *6*, 6330; *Nat. Nanotech.* **2016**, *11*, 769; *Nat. Commun.* **2016**, *7*, 11975.

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