Seminar : Antoine GOUJON

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Salle Barriol (7ème étage FST)

Light-Driven Synthesis of Electron-Deficient Organic Semiconductors

Designing new organic semiconducting materials requires the development of conceptually new synthetic methodologies. Creating large conjugated molecular scaffolds often requires many synthetic steps, precious metals and intense synthetic efforts. We are developing a synthetic methodology that combines the best features of dynamic covalent chemistry and conventional covalent synthesis, to design new underrepresented electron-poor organic semiconductors, studied for applications in Organic Light Emitting Diodes (OLEDs), Organic Solar Cells (OSCs) or Organic Field Effect Transistors (OFETs), photodetectors, organic batteries and more. We are particularly interested into the preparation of heteroatom-doped imide-decorated nanographenes to study their self-assembly and optoelectronic properties and the development of new conjugated polymers prepared under thermodynamic control.

Séminaire organisé dans le cadre du projet de programme interdisciplinaire MAT-PULSE