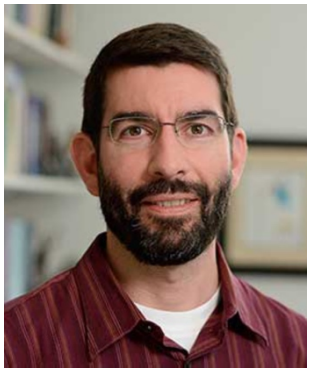
Frontier Chemistry Center
フロンティア化学教育研究センター
講演会

演 題：**Repurposing aromaticity for organic electronics: making, breaking and stacking pi-circuits**



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日 時：2019 年 2 月 4 日（月）~~16:30～18:00~~
より **15:00～16:30** へ時間変更

場 所：フロンティア応用科学研究棟 1 階セミナー室 1

要 旨 ： Several emerging energy technologies require flexible and solution-processable organic-based electronic materials capable of specific degrees of energy transport in order to achieve desired functions. This lecture will highlight two fundamental structural considerations relevant to the design of materials that can foster or otherwise regulate efficient energy/charge migration. One aspect involves the use of unusual aromatic building blocks with relatively low degrees of resonance stabilization that can encourage intramolecular electronic delocalization. Another aspect involves the control of intermolecular electronic delocalization through the use of water-soluble oligopeptides attached to pi-conjugated oligomers that self-assemble into fibrillar bioelectronic nanostructures containing internal pi-stacked electronic conduits. In both aspects, the making, breaking and stacking of aromatic rings plays a critical role to define the physical properties of the materials and the possible arenas where they may be employed.

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総合化学特別研究第二（博士後期課程選択科目）』の一部として認定されています。

連絡先：工学研究院応用化学部門　伊藤　肇（内線：6561）

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