

“Functional Organic Nanostructured Materials”

日時:2019年6月12日(水) 17:00-18:30

場所:10号館4階 1042

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Our research interests involve the molecular design, synthesis, and characterization of novel functional organic/polymeric materials directed towards electro-optic, photonic and biological applications. Efforts are targeted towards developing versatile synthetic strategies, which enable the control of nano-functionality, hence their structure and properties. Our current research focus is in four major areas: design, synthesis and directed self-assembly of polymeric materials to create dense periodic structures in sub-10 nm length scale, development of scalable strategies using polymer brushes for interfacial modification, addressing problems in sorting, assembling and device fabrication in carbon nanotube electronics by developing new organic inks, and development of chemically defined polymeric coatings for cell biology. I will highlight examples from each one of these research areas to emphasize our expertise and interests. We are a highly interdisciplinary group where we interface and collaborate with researchers in the hard materials world, to solve real world problems in energy and biology.



主催: 大阪工業大学応用化学科

共催: 大阪工業大学地域産業支援プラットフォーム(OIT-P)

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