



第251回 OPERA研究交流セミナー  
第242回 ISIT有機光エレクトロニクス研究特別室セミナー  
第309回 未来化学創造センターセミナー



日時: 2024年11月7日(木) 11:00~  
場所: ISI棟2階 大会議室



## 「Development of Photonic and Electronic Materials using Binaphthyl Derivatives」

Dr. Fathy Hassan

Okinawa Institute of Science and Technology Graduate University

The development of new functional materials for organic photonics and electronics contributes to the next generation of lightweight, flexible, and cost-effective devices. In this talk, I will present my recent research on the design, synthesis, and characterization of photonic materials for light-driven molecular switches, alongside novel semiconducting materials for optoelectronics. This presentation will span interdisciplinary studies, beginning with an introduction of the binaphthyl moiety as a key structure in my research, followed by the synthesis of photo-responsive chiral polymers that tune circular polarized reflection in liquid crystals, and concluding with the one-pot synthesis of 7H-dibenzo[c,g]carbazole for the development of new semiconducting and hole-transporting materials.

主催：九州大学 最先端有機光エレクトロニクス研究センター  
：財団法人九州先端科学技術研究所（ISIT）  
共催：九州大学 未来化学創造センター