



第254回 OPERA研究交流セミナー  
第245回 ISIT有機光エレクトロニクス研究特別室セミナー  
第312回 未来化学創造センターセミナー



日時:2024年11月21日(木) 17:00~  
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## 「Looking Back on 20 Years of Organic Semiconductor Research」

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In the past 20 years, the author has been involved in developing organic semiconductors, mainly small molecule-based materials, for organic field-effect transistor applications. Organic semiconductors, in other words, molecular solids consisting of pi-conjugated molecules, have several different molecular aspects, such as molecular structure, crystal packing, stability, and redox properties, which are closely related to semiconducting properties, such as carrier mobility, type of carrier, ease of carrier injection and so on. As organic molecules are arbitrarily designed and synthesized, the performances as organic semiconductors are thus supposed to be tunable. Following this idea, the author and his research group have been engaged in the synthesis and characterization of organic semiconductors, and several key aspects of organic semiconductors are now being recognized. By looking back at 20 years of research activities, the author will share his ideas and viewpoint for developing high-mobility organic semiconductors.

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