## **Development of Functional Organic Materials:** solution-processable semiconducting materials

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## Content :

 Development of organic electronic materials : Development of new electronic materials having aromatic chemical structure such as thiofen and benzene is carried out. One of the most important subjects, in Japan with no natural resources, is development of thin film semiconducting materials, which can convert from solar energy to electric energy. Synthesis and evaluation of aromatic compounds, which are promising as field effect transistor (FET), is carried out.
Synthesis and evaluation of organic compounds having recognition ability for molecules : New organic metal catalysts having ligand, which has new ring structure, are synthesized and development of its functionality is performed. The purpose of this development is synthesis of chiral materials having high efficiency.
Synthesis of new organic compounds having erasable functionality of active oxygen and its evaluation : Development of medicine having ability to erase active oxygen, which is considered

as origin of aging, Alzheimer's disease, Parkinson's disease, cancer, etc. becomes important as applied research toward medical science.

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Research Interest : Chemistry (organic synthesis, electric materials, active oxygen)

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