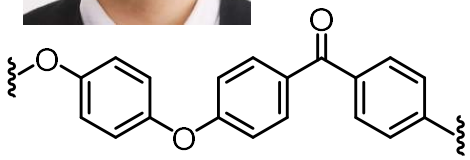
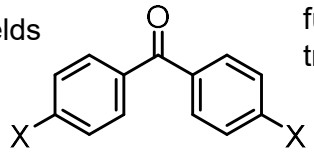
Organic Reaction Laboratory_ Cooperative Graduate School
Dr. MINAMI, Yasunori@AIST

Development of organic reactions for efficient use of organic resources

Focus on Hard-to-Use Resource

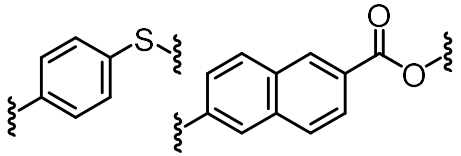
Exploring New Reaction Fields
→ Stable bond cleavage





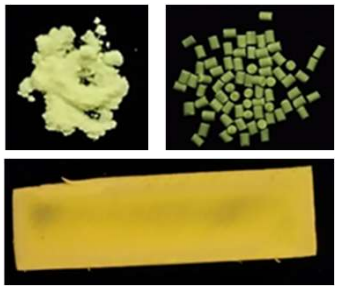
recovered molecules
(X = S, O, N)

Developing further transformation



Stable resins
&
Stable organic molecules

Functionalization on resins



Surface-functionalized resins with luminescent and catalytic properties

Development of new molecular transformation reactions to use robust chemicals

Exp.
Stable bond transformation（C–O, C–S, C–N）
Use of water as solvent or reactants
Surface functionalization of insoluble materials
Development of new reaction fields

Organic synthesis instrument

Analysis equipment

✓ **Collaboration with various researchers**

✓ **Financial supports are available**

E mail: yasu-minami@aist.go.jp