POROUS MATERIALS Fe-205

OGURA LAB.

[Molecule-sized Nano Space and Catalysis]

Institute of Industrial Science, Department of Materials and Environmental Science

Environmental Catalysis, Materials Chemistry

Department of Chemical System Engineering

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Nano Space and Catalysis

Our research group tackles on the environmental, and resources and energy problems using nano porous materials.







Nano-sized space allows us to...

- e.g.,)
- Store and concentrate materials and energy
- Capture harmful chemicals
- Select or sieve molecules by their size and chemical properties
- Anchor the catalytic site in the nano space
 Catalyze space-selective reactions

Unique Adsorbent

Unique Catalyst

Create The Truly Useful Catalysts via A Design of Nano Space Reaction

Approaches in Ogura Lab Resources New catalysts C1 conversion Hetero-atom Environment New suggestions · Olefins production · Base catalytic site · Automobile catalyst Nitrogen-cycle · CO₂ conversion · Hierarchical material Academic²-industry² Partial oxidation · Exhaust gas purification deNOx cooperation · Jet fuel Energy Concentration of 資源転換 Thermal energy storage toxic substance · Heat release-store C1 Conversion · Soot combustion