

OGURA LAB.

Frontiers for Elements Circulation Society


 Research Center for Sustainable Materials Energy Integration
 Department of Materials and Environmental Science

Catalyst/Catalysis

Department of Chemical System Engineering, Graduate School of Engineering

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Planetary Boundary: Big Society, Small Earth

For Reactive Nitrogen Circulation



Nitrogen Flow

For Carbon Neutrality



DACCUS

Organic Syn.

MTO+BTX

FTS

Methanation

Biodiesel Production

Phosphorous Balance

Ozone Hall

Climate Change

Bio Diversity

Aero Sol

Ocean Acidification

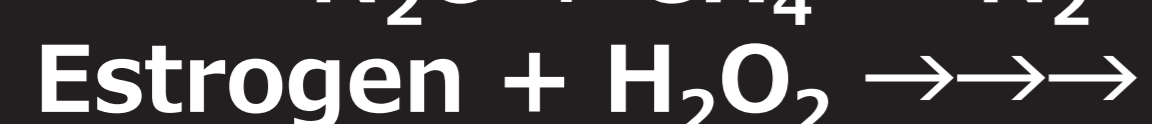
Fresh Water

Novel Substances

Biosphere Conservation

Land Use

For Environmental Protection



Direct Decomposition

Selective Reduction by Ammonia

Selective Reduction by Hydrocarbons

Elimination of Environmental Hormones

Catalyst as
the Key Material