

Development of Functional Materials from Naturally Abundant Resources

Professor Bungo OCHIAI

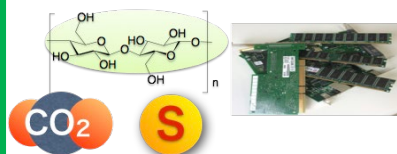
Research Goal

Contribution to

Environment
Life Nature

by development of practically applicable materials & technologies

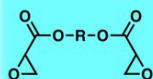
Effective Use of Resources



Recycling of Rare Metals

Green Materials

Shape-memory
Ductile
Origami polymer



Biodegradable & High strength



Development of unique & novel materials

by facile/inexpensive methods using abundant/cheap materials

Content:

Our definition of Engineering is *the study on technologies providing society with happiness*.

The most efficient embodiment for happiness will be the technologies practically used in society. Our goal to realize this embodiment is to fabricate high-value technologies and materials with consideration on costs, synthetic processes, prospects of them used in societies, and social systems.

Our goal is not focused on specific fields. Our laboratory studies various researches like development of materials for resource-saving, rare-metal recycle, optics, electronics, toughness, energy, health, environmental problems and so on. Sometimes, we also pursue researches without clear goals if interested, with keeping in mind that the researches are waiting to be matched with any roles in society.

Appealing point:

Our lab can deal with wide ranges of materials and technologies. The PI has a sufficient experience on industry-academic collaborations.

Yamagata University, Graduate School of Science and Engineering
Research Interest: Organic/Polymer Synthesis, Functional Materials

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