Division of Material Chemistry	Research field	Coordination Chemistry	Lab. ID MC02
Laboratory web site	http://chem.s.kanazawa-u.ac.jp/coord/index_e.html		

Research subjects

One of the important features of metal complexes is reversibility of metal-ligand coordination bonds. This enables the spontaneous formation of supramolecular structures and the dynamic conversions in response to external stimuli. In order to make and convert large-sized supramolecular structures in a desired fashion, it is important to place appropriate metal ions and organic ligand moieties in a suitable arrangement. Therefore, we need to select suitable metal ions and need to finely design organic molecules with appropriate ligating moieties. Our group aims to develop novel dynamic functional metal complexes and responsive supramolecules by utilizing dynamic feature of metal ions and fine design of organic frameworks.

Master/Doctor course: Education policy, curriculum, typical activity in the laboratory

Research interests of our group are to develop various kinds of responsive supramolecules and functional metal complexes that enable unprecedented molecular motions and chemical conversions based on unique ideas. The research plans are determined through discussions among professors and students, and the students do their researches under supervision of the professors. Our group has weekly seminars in which the students report their research plans and results and introduce recent topics reported in top journals. Also, many students attend domestic and international symposiums to present their researches achievements.

Daily life in the laboratory, etc.

You will enjoy your research activities in the lab on the basis of your own ideas and through discussions with professors or senior students, although the lab life is sometimes busy preparing for experimental works, seminar reports, etc. Many students feel so comfortable to spend a lot of time in our lab that they sometime remain in the lab to do their work. We have a relatively large student room, in which we have discussions about our researches with colleagues or just take a coffee or tea break. Beside the research activities, we fully enjoy drinking parties and BBQ parties which are held occasionally.

Message or comments by the laboratory faculty staffs

Our group aims to develop novel molecular systems with new ideas and designs, which enable unprecedented dynamic motions and novel functions. In researches on developing new molecular systems, it is important to generate new ideas, to make a creative effort to realize them, and to think logically the experimental results with an open mind. During researches, you will achieve the development of target molecular systems and sometimes you will find new ideas from serendipitous results. Such experiences will make you feel exciting. Let's make new molecules based on your new ideas and concepts!

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