

Division of Material Chemistry	Research field	Polymer Chemistry	Lab. ID MC13
Laboratory web site	http://kohka.ch.t.kanazawa-u.ac.jp/lab3/lab3.html		
Research subjects			
<p>Our laboratory studies the synthesis and functionalization of polymers and supramolecular materials to develop high-performance functional materials. Materials from fundamental researches become advanced materials through various chemical modifications. The main research topics are as follows.</p> <p>1. Synthesis and Functionalization for Improvement of Phenolic Materials Various phenolic compounds are used as monomers to synthesize novolac and resol resins with a high density of aromatic rings under highly reactive conditions.</p> <p>2. Synthesis and Functionalization of Cyclic Phenolic Compounds Functional materials are developed using cyclic phenolic oligomers. (1) Construction of polymer and supramolecular structures using calixarenes (2) Synthesis and functionalization of Pillararenes</p> <p>3. Synthesis of Organic-Inorganic Hybrid Materials To improve the performance of polymer materials, we study the synthesis of hybrid materials containing organic, inorganic, or metal components. (1) Synthesis of hybrid materials using natural resources (2) Synthesis of hybrid materials containing dispersed inorganic compounds</p>			
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<p>In the laboratory, master course students take required lectures in the first semester and then focus on the research. Doctor course students discuss their thesis with staffs in the first semester. Submission of original paper in international journals is necessary to get a degree of doctor. Master and/or doctor course students are preferred to attend research meetings.</p>			
Daily life in the laboratory, etc.			
<p>In the laboratory staffs prefer students to research from 9 A.M. to 9 P.M. Students avoid researching alone. Students discuss the results of research with staffs and the friends of the laboratory at regular intervals.</p>			
Message or comments by the laboratory faculty staffs			
<p>In the laboratory, it is usual for students to act independently. Students should have the ability to distinguish the official and private matters and the self-administration ability that are required as a member of society. It is a purpose for students to raise the ability through the education and research in the laboratory, and staffs want students to improve the ability with the friends of the laboratory.</p>			
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