

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>In the laboratory, the purpose of research is the development of both high-functional and high-performance materials by the synthesis and functional analysis of polymeric and supramolecular materials as followed subjects.</p> <ol style="list-style-type: none"> 1. Preparation and functional analysis of high-performance phenolic polymers 2. Synthesis and functional analysis of high-performance cyclic oligomers 3. Preparation and functional analysis of organic/inorganic hybrid materials 			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
<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>			
Recent Master theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Control of Catalysis of TiO ₂ by Complex with Amphiphilic Cyclic Compound		
2017.3	Formation of Pseudopolyrotaxane between Pillar[n]arene and Poly(ethylene glycol) in Bulk State		
2017.3	Supramolecular Formation Using Pillar[5]arene Containing One Benzoquinone Unit		
2017.3	Synthesis of Phenolic Resin with Ladder-like Network Structure		
2017.3	Alkane-Shape and -Length Sorting using Activated Pillar[5]arene Crystals		
2017.3	Formation of Pillar[n]arene Multi-Layer Films with Micropores Using Layer-by-Layer Assembly		
2017.3	Preparation of Hybrid Materials from Phenolic Polymer		
2017.3	Formation of Supramolecular Gels from Amphiphilic Cyclic Compound		
2016.3	Selective extraction of metal ions by calixarene derivatives		
2016.3	Synthesis of phenolic polymers having controlled structure		
2016.3	Synthesis and Complexation Behavior of Cyclodextrin Derivative with Ethylene Glycol Units		
2016.3	Aggregation of phenolic cyclic compound and its inclusion behavior		
2016.3	Shape Selective Molecular Sorting by Crystal State Pillar[6]arene		
2016.3	Solvent-dependent planar-chiral inversion of pillar[n]arenes with chiral side chains		
2016.3	Supramolecular Formation Using Liquid Cyclic Molecules		
2016.3	Preparation and properties of organic-inorganic hybrid materials using cellulose derivatives		
2016.3	Supramolecular formation that can be followed in real time		
2015.3	Preparation of network polymers with phenolic resin structure		
2015.3	Preparation and function of co-condensed polymers with cyclic structure in the chain		
2015.3	Interaction between cyclic compounds and inorganic particles		
2015.3	Supramolecular formation of bi-functionalizing Pillar[5]arene		
2015.3	Construction of molecular shuttles based on Pillar[n]arenes		
2015.3	Supramolecular formation by oxidation of Pillar[n]arene units		
2014.3	Preparation of organic/inorganic hybrid materials with chirality		
2014.3	Preparation of phenolic polymers with regular structure		
2014.3	Preparation of linear polymers from two functional calixarene and its interaction with polysaccharides		
2014.3	Gelation behavior of amphiphilic calixarene and the application		

2014.3	Liquid-crystalline properties of cyclodextrin derivatives
2014.3	Supramolecular formation constructed from Pillar[n]arenes by Click reaction
2014.3	Molecular tubes by Self-assembly of Pillar[n]arenes
2014.3	Synthesis of Pillar[n]arene using template effects
2014.3	Pillar[n]arene-based polymers with characteristic structures
2013.3	Preparation of network polymers by two kinds of polymerization methods
2013.3	Photoreversible switching of the lower critical solution temperature in a photoresponsive host-guest system of Pillar[6]arene
2013.3	Melting behavior of <i>p</i> -phenylphenol polymers
2013.3	Supramolecular formation using liquid Pillar[5]arenes
2013.3	Supramolecular formation based on mono-functionalizing Pillar[5]arenes
2013.3	Graft copolymers consisting of poly(3,4-ethylenedioxythiophene) and poly(styrenesulfonate)
2013.3	Static and dynamic planar chirality of Pillar[n]arenes
2013.3	Planar chiral rotaxanes based on Pillar[n]arenes
Recent Doctoral theses in these 3 years (+ more if appropriate)	
year.month	Thesis title (including English translation of Japanese thesis title)
2014.3	Effect of substituents on supramolecular formation of Pillar[5]arenes
2014.3	Conformational structures of <i>para</i> -bridged macrocyclic hosts Pillar[5]arenes
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