





Division of Material Chemistry	Research field	Molecular Design Chemistry	Lab. ID MC16
Laboratory web site	http://kohka.ch.t.kanazawa-u.ac.jp/lab7/index-e.html		
Research subjects			
<p>Our research group is focused on the design, synthesis, and characterization of advanced organic materials. We utilize the tools of organic chemistry to create small molecules and macromolecules with interesting properties and functions. A major goal of ours is to elucidate the intra and intermolecular interactions in biomimetic systems in order to design and develop functionalized organic molecules and macromolecules. In particular, polymorphism of organic crystals, substrate and stereo specificities of enzyme reactions, and design of molecular imprinting polymers are current research topics.</p>			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
<p>On successful completion of studies in our laboratory, students should be able to:</p> <ul style="list-style-type: none"> ·acquire a sufficient grounding in chemistry and understand principle and gain skills of hands-on operation of analytical equipment, and then learn practical scientific sophistication and enhance communication ability as a chemist. ·cultivate problem-solving skills through active discussion on individual research thesis with members of our laboratory. ·improve presentation and English skills through a graduate seminar regarding individual research thesis. ·accumulate significant experience by presentation of research developments in various meetings and symposia. 			
Daily life in the laboratory, etc.			
<p>In an easygoing and uninhibited atmosphere of our laboratory, students can develop a fine creative potential and a sense of balance necessary in society. In a place like here, however, we need to behave spontaneously with a strong sense of responsibility.</p>			
Message or comments by the laboratory faculty staffs			
<p>Students must be mature enough to live in today's society. We are expecting students to enter our research group and grow as a human and chemist.</p>			
Recent Master theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Synthesis and application of 3-silylthiophenes possessing perfluoroalkyl groups		
2016.3	Novel Synthesis of Fluorous Ionic Liquids		
2016.3	Stereoselective Synthesis of 1,2,3-Triol Derivatives from 2,3- <i>anti</i> -Dihydroxyacylsilanes		
2016.3	Radical Scavenging Activity and Synergetic Effect of Caffeic Acid Derivatives		
2015.3	Photochemical reactions of hydroxycinnamic acid derivatives		
2015.3	Synthesis of caffeoylphenetyl esters using Novozym 435 as a catalyst		
2015.3	Synthesis and utilization of α,β -unsaturated acylsilanes		
2015.3	Synthesis of 1-alkyl substituted cyclopropyl silyl ketones		
2014.3	Inclusion behavior of caffeoylquinic acids with cyclodextrins		
2014.3	Stereoselective synthesis of allyl ether derivatives from α,β -unsaturated acylsilanes		
2014.3	Synthesis of Homoallylic Alcohol Derivatives from Acylsilanes		
2013.3	Hydrogen bonding networks of chiral hydantoin derivatives		
2013.3	Structure and function of proanthocyanidins originated from Kaki-shibu		
2013.3	Synthesis of fullerene derivatives having a silyl group in the side chain		
2013.3	Stereoselective synthesis of 1,2,3-triol derivatives from α,β -unsaturated acylsilanes		
2012.9	Preparation and adsorption behavior of persimmon tannin gel		
Recent Doctoral theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
2016.9	Efficient synthesis of chlorogenic acid and its regioisomers		
2015.3	Study on adsorption properties of persimmon tannin-based gels for acidic and basic compounds		

Laboratory mail address

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