

Division of Frontier Engineering	Research field	Chemical and Process Engineering	Lab. ID FE11
Laboratory web site	https://ridb.kanazawa-u.ac.jp/public/detail.php?id=4582		
Research subjects			
Chemical and process engineering researches from basic study to application are carried out in our laboratory. Main subjects: Development of supercritical CO ₂ process towards green and sustainable society, Development of multi-scale kinetics, and Hydrothermal synthesis of cathode materials for lithium-ion battery and simulation of lithium intercalation electrodes, Study on bacterial diversity analysis of KOSA bioaerosols, DNA analysis of bioaerosols over the Antarctic, and Analysis of the curing process of UV cured resin, Development of the expert system of polymer production process			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
Master course students decide practical subject for master thesis with teachers. It is desirable for students to attend scientific society by graduation. The laboratory is managed by a weekly meeting which must be attended by staffs and students, where analysis and experimental support for research are discussed and determined.			
Daily life in the laboratory, etc.			
Our laboratory's students of undergraduate, master, doctor share the room, and everyday free discussion on chemical engineering or related topics. Many laboratory activities are organized like, welcome party for new students, summer workshop, a year-end party, etc.			
Message or comments by the laboratory faculty staffs			
Our Lab. is recruiting graduate and research students. We always welcome enrollment by students and ad hoc visits by young researchers. Those with interest in the development of supercritical fluid technology or on related fundamental studies are invited to contact us in Japanese or English.			
Laboratory mail address	Hirohisa Uchida < uchida@se.kanazawa-u.ac.jp >		