The 1st Workshop of Reaction Infography (R-ing) Unit



11th June, 2019

Noyori Materials Science Laboratory, 2F Lecture Room

The World Research Unit (B-1) at Nagoya University "Reaction Infography (*R-ing*)" has been started since April 2019. The *R-ing* unit aims to prepare the new concept of reaction infography by collaborative researches on reaction imaging, informatics, and materials science. In this workshop, the concept of reaction infography and the frontiers of reaction imaging, materials informatics, and materials science are discussed.

Program		
Session 1: Re	eaction Infography from the <i>R-ing</i> unit	
10:00-10:30	Opening Remarks	Mizuki Tada (Nagoya Univ)
	Reaction Infography for Materials Science	
10:30-11:00	Molecular Recognition and Trapping in the Nanospace of Metal-Organic Frameworks	
		Ryotaro Matsuda (Nagoya Univ.)
11:00-11:30	Laser Reaction Microscope: Real-time Imaging of Ultrafast	Chemistry
		Akiyoshi Hishikawa (Nagoya Univ.)
11:30-12:00	Looking for the Bridge between Photo-organic Synthesis and	d Surface Catalysis Science
		Susumu Saito (Nagoya Univ.)
	[Photo · Lunch]	
Session 2: Fr	ontiers of Materials Science	
13:00-13:30	30 XAS- and DFT-based Mechanistic Study on Iron Catalysis in Organic Chemistry	
		Hikaru Takaya (Kyoto Univ.)
13:30-14:00	Operando Electrochemistry of Coordination Polymers: Discovery of New Species and Mechanism	
		Zhongyue Zhang (Nagoya Univ.)
14:00-14:30	Investigation of the Origin of Reaction Distribution in All-solid-state Lithium Ion Battery Cathode	
	by Using CT-XAFS	Yuta Kimura (Tohoku Univ.)
14:30-15:00	30-15:00 Finding New Polymorphs of Layered Transition Metal Dichalcogenides	
		Shintaro Ishiwatari (Osaka Univ.)
Session 3: M	ethodology of Reaction Imaging and Informatics for Materials	s Science
15:30-16:00	Tracking Chemical Reactions in Solution with Ultrashort X-ray Pulses	
		Shin-ichi Adachi (KEK)
16:00-16:30	Soft X-ray Core-level Spectroscopy Measurements for Catal	lytic Surface Reactions
		Hiroshi Kondoh (Keio Univ.)
16:30-17:00	Knowledge Discovery from Materials Data	Dam Hieu Chi (JAIST)
17:00-17:30	Machine Learning and DFT Simulation for XAFS/EELS	Teruyasu Mizoguchi (Univ. Tokyo)
17:30-17:40	Concluding Remarks	Kunio Awaga (Nagoya Univ.)
18:00~	Banquet @ Hanano-ki	