

Schedule of 5th Japan–Korea Joint Symposium on Hydrogen in Materials

Date: November 6-8, 2019

Place: Tokyo Tech, Ookayama Campus

Co-organizer: Hydrogenomics

Wednesday, 6th 19:00~21:00				Welcome Reception			
Thursday, 7th 10:00-17:40				Oral Session 1 @ West Bldg. 8E, 10th floor, #1001			
10:00	10:05			Opening Remarks			
10:05	10:50	#01	Shin-ichi Orimo	Complex Hydrides for Energy Device Research			[Chair] Taro Hitosugi
10:50	11:20	#02	Sungho Yoon	Heterogenized molecular Ru catalyst on covalent triazine framework continuously catalyzing CO ₂ hydrogenation to formate with trickle-bed reactor			
11:20	11:50	#03	Shohei Ogura	Controlling hydrogen transport across Pd-Au surfacees by surface modifications			
11:50	13:10			Lunch & Org. Committee Meeting			
13:10	13:40	#04	Ryota Shimizu	Epitaxial Growth of Metal Hydride Thin Films and Their Unique Physical Properties			[Chair] Yong Nam Choi
13:40	14:10	#05	Eun Seon Cho	Nanoscale metal/graphene interfaces in solid-state hydrogen storage			
14:10	14:40	#06	Yoshitaka Aoki	Enhanced grain boundary transport of hydride ions in nanocrystalline metal nitride membranes			
14:40	15:10	#07	Minyoung Yoon	Microporous metal-formate frameworks: Unusual proton conduction behavior and gas sorption properties			
15:10	15:40			Break			
15:40	16:10	#08	Soshi Iimura	Characteristic fast H ⁻ ion conduction in oxygen-substituted lanthanum hydride			[Chair] Teppei Yamada
16:10	16:40	#09	Junwoo Son	Hydrogen-induced reversible phase transition in correlated materials			
16:40	17:10	#10	Masayuki Ochi	Effective Coulomb interaction in strontium vanadium oxyhydrides evaluated by the constrained random-phase approximation			
17:10	17:40	#11	Yong Nam Choi	Hydrogen spin conversion by magnetic MOFs			
Thursday, 7th 18:00-19:30				Dinner & Poster Session (P1~P7)			
Friday, 8th 9:30-17:35				Oral Session 2 @ West Bldg. 8E, 10th floor, #1001			
9:30	10:00	#12	Mio Kondo	Development of molecule-based artificial catalysts for water splitting			[Chair] Kyungmin Choi
10:00	10:30	#13	Wonyoung Choe	Atomically precise metamaterials from metal-organic frameworks			
10:30	11:00	#14	Teppei Yamada	Combination of proton-coupled electron transfer reaction and LCST phase transition of PNIPAM for waste heat harvesting			
11:00	11:30	#15	Jinhee Park	MOFs for adsorption and catalysis			
11:30	13:00			Lunch			
13:00	13:30	#16	Kyungmin Choi	Design of metal-organic frameworks and polyhedral for photocatalytic CO ₂ conversion			[Chair] Miho Yamauchi
13:30	14:00	#17	Masaki Saruyama	Nanoparticle approach toward efficient hydrogen evolution from water splitting			
14:00	14:30	#18	Hack-Keun Lee	High performance iron-carbide/graphene nanocatalysts for harsh CO hydrogenation reactions			
14:30	15:00	#19	Chang Yeon Lee	CoP/carbon nanofiber (CNF) composite for efficient hydrogen evolution reaction catalyst			
15:00	15:30			Break			
15:30	16:00	#20	Takane Imaoka	Atom-precise metal clusters as heterogeneous catalysts			[Chair] Sang Hoon Joo
16:00	16:30	#21	Youngjune Park	Trapping hydrogen clusters in clathrate of water molecules for potential application to hydrogen separation and storage			
16:30	17:00	#22	Takanori Shima	Multinuclear hydride clusters: Activation and transformation of small molecules			
17:00	17:30	#23	Jeong Young Park	CO ₂ hydrogenation reaction on Pt-based model catalysts from nanoparticles to single crystals			
17:30	17:35			Closing			
Friday, 8th 18:00-20:00				Banquet			