

# A-2 Symposium Program

	(min)	Presentation	Name	Title	Chair Person	
12/11 (Wed)	16:30-18:30	120	Cluster A Keynote Talks (3) : Teruyasu MIZOGUCHI (The University of Tokyo), Truls NORBY (University of Oslo), Kenji OHYAMA (Ibaraki University)			Shin-ichi ORIMO
12/12 (Thu)	09:30-10:15	45	Symposium Keynote-1	<b>1-1 Rana MOHTADI</b>	Enabling Energy Technologies Using Hydride Materials	Hiroshi KAGEYAMA
	10:15-10:45	30	Invited-1	<b>1-2 Shin-ichi ORIMO</b>	Complex Hydrides for Energy Device Research	
	10:45-11:05	20	Oral-1	<b>1-3 Kartik SAU</b>	Molecular Dynamics Study of Fast Li <sup>+</sup> Ion Transport in closo-Boranes	
	11:05-11:15	10	Break			
	11:15-11:45	30	Invited-2	<b>2-1 Truls NORBY</b>	Hydride ion conduction	Tom AUTREY
	11:45-12:15	30	Invited-3	<b>2-2 Hiroshi KAGEYAMA</b>	Size Flexibility of Hydride Anion: Structure and Property Control	
	12:15-14:00		Break			
	14:00-14:20	20	Oral-2	<b>2-3 Genki KOBAYASHI</b>	H-Conduction in the Rock-Salt Layer of K <sub>2</sub> NiF <sub>4</sub> -Type Oxyhydrides	Anderson JANOTTI
	14:20-14:40	20	Oral-3	<b>2-4 Soshi IIMURA</b>	Characteristic H <sup>-</sup> Ion Conduction in Oxygen-Substituted Lanthanum Trihydride	
	14:40-15:00	20	Oral-4	<b>2-5 Tomofumi TADA</b>	Fast Hydride Ionic Conduction of Lanthanum Oxyhydride from First Principles Molecular Dynamics Simulation	
	15:00-15:10	10	Break			
	15:10-15:40	30	Invited-4	<b>3-1 Tom AUTREY</b>	Catalytic Properties of Hydrides in Aqueous Media	Truls NORBY
	15:40-16:10	30	Invited-5	<b>3-2 Miho YAMAUCHI</b>	Inorganic Nanomaterials to Achieve Efficient Electrochemical Hydrogenation for Energy Storage and Materials Conversions	
	16:10-16:30	20	Oral-5	<b>3-3 Hiroshi MIZOGUCHI</b>	Hydrogen storage behaviors and application for ammonia synthesis of LnNiSi (Ln = La-Nd)	
	19:00-21:00	120	MRM2019 Banquet			
12/13 (Fri)	09:30-10:15	45	Symposium Keynote-2	<b>4-1 Naoki OHASHI</b>	Investigation on Defect Structures in Oxides with Hydrogen Impurity	Miho YAMAUCHI
	10:15-10:45	30	Invited-6	<b>4-2 Anderson JANOTTI</b>	The hydrogen impurity in wide-band-gap oxides	
	10:45-11:05	20	Oral-6	<b>4-3 Keisuke IDE</b>	Hydrogen Doping in Ultra-widegap Amorphous Oxide Semiconductor, Amorphous Ga-O	
	11:05-11:25	20	Oral-7	<b>4-4 Toshio KAMIYA</b>	Structures and Electronic States of Hydrogen in Inorganic Semiconductors with Different Anions	
	11:25-11:45	20	Oral-8	<b>4-5 Kazuhiro GOTOH</b>	Activation energy of hydrogen effusion of high performance TiO <sub>x</sub> /SiO <sub>x</sub> /c-Si heterocontacts	
	11:45-14:00		Break			
	14:00-14:20	20	Oral-9	<b>5-1 Shohei OGURA</b>	Kinetic Enhancement of Hydrogen Absorption by Pd through Surface Modification with Au	Genki KOBAYASHI
	14:20-14:40	20	Oral-10	<b>5-2 Nobutaka MAEDA</b>	Caught in the Act: Hydrogen Bond at Work in Asymmetric Synthesis Monitored by Modulation-Excitation Infrared Spectroscopy	
	14:40-15:00	20	Oral-11	<b>5-3 Shigeyuki TAKAGI</b>	Hydride Complexes with High Hydrogen Coordination and Their Novel Functionalities	
	15:00-15:20	20	Oral-12	<b>5-4 Hiroyuki SAITOH</b>	High-pressure and high-temperature synthesis of novel hydrides	
	15:20-15:40	20	Oral-13	<b>5-5 Satoru MATSUIISHI</b>	Magnetic structure of heavily hydrogen-substituted 1111-type LaMnPO <sub>1-x</sub> H <sub>x</sub>	
	15:40-16:30		Break			
	16:30-16:50	20	Oral-14	<b>6-1 Yoshiyuki YAMAMOTO</b>	First-principles calculations of hydrogen-related reactions in polymer electrolyte fuel cell	Hiroyuki SAITOH
	16:50-17:10	20	Oral-15	<b>6-2 Ryuhei SATO</b>	Proton conduction on hydrated oxide surface for "electrolyte" of metal/oxide catalysts	
	17:10-17:30	20	Oral-16	<b>6-3 Zhi LONG</b>	Sulfonated Poly(arylene perfluoroalkylene) Terpolymers as Proton Exchange Membranes	
	19:00-21:00		Poster			