

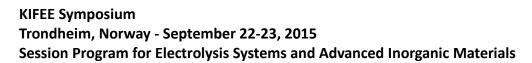


Tuesday September 22 - Nanovrimle					
Joint Session	Joint Session I				
Chairs: Koji Amezawa and Mari-Ann Einarsrud					
9:00 - 9:20	Toshiyuki Nohira, Kyoto University				
	"A New Electrodeposition Process of Cryst	calline Silicon Film Using Water-soluble			
	KF-KCl Molten Salt"				
9:20 – 9:40	Olena Zavorotynska, Institute for Energy Technology				
	"Hydrogen storage materials				
9:40 – 10:00	Tetsuo Sakka, Kyoto University,				
	"Electrodeposition of thin metal film at an oil-water interface: Behavior of				
	microspherical particles dispersed at the interface"				
10:00 - 10:20	Sverre Magnus Selbach, Department of Materials Science and Engineering, NTNU				
	"DFT electronic structure simulations of new oxide materials for energy				
	technology"				
10:20 - 10:40	Coffee break				
Joint Session	on II				
Chairs: Tet	suo Sakka and Ann Mari Svenssor	1			
10:40 - 11:00	Signe Kjelstrup, Department of Chemistry	, NTNU			
	"Thermoelectric cells with molten carbonate electrolytes"				
11:00 – 11:20	Hiroshi Inoue, Osaka Prefecture Universit	ty,			
	"Development of Highly Active Electrocatalysts for Glycerol Oxidation Rea				
11:20 - 11:40	Steffen Møller-Holst, SINTEF Materials a	nd Chemistry			
	"Large scale export of hydrogen from Nor	way to Japan - Results from a recent			
	feasibility study"				
11:40 - 12:00	Hiroshi Ito, AIST				
	"System evaluation of unitized reversible	fuel cells"			
12:00-12:50	Lunch				
	Parallel sessio	ns			
	Electrolysis Systems I	Advanced Inorganic Materials I			
	Chairs:	Chairs:			
	Hiroshi Inoue and Frode Seland	Yasushige Mori and Kjell Wiik			
12:50 – 13:10	Tommy Mokkelbost, SINTEF Materials	Hilde Lea Lein, Department of			
	and Chemistry,	Materials Science and Engineering,			
	"Aluminium electrolysis by using	NTNU			
	methane gas anode"	"Coatings for anti-icing applications"			

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13:10 - 13:30	Kouji Yasuda, Kyoto University	Yuta Kimura, Tohoku University
	"Electrolytic Reduction of SiO2 on Liquid	"What determines the reaction
	Zn Cathode in Molten Salt toward Solar-	distribution in LiCoO2 composite
	grade Silicon Production"	cathode for Li ion batteries? Answers
		from operando 2D-XAS measurements "
13:30 - 13:50	Junli Xu, Department of Materials	Mali H. Rosnes, Department of
	Science and Engineering, NTNU	Chemistry, University of Bergen
	"Electrodepositon of Mg-based alloys at	"Inorganic-organic nanoporous
	low temperature"	materials for application in gas
		processes"
13:50 - 14:10	Naoya Nishi, Kyoto University	Ryohei Yagi, The University of Tokyo
	"Electrochemical formation of gold	"Development of New Recovery Process
	nanofibers at ionic liquid water	for Rhenium from Nickel-based
	interface"	Superalloy Scraps"
14:10 – 14:30	Gurvinder Singh, Department of	Carlos Bernuy-Lopez, Department of
	Materials Science and Engineering,	Materials Science and Engineering,
	NTNU	NTNU
	"Design of Nanoporous Catalytic	"Ordering effects at operating
	Nanoparticles and Their Electrochemical	temperatures of LaBaCo2O5+δ, a
	Activity"	promising SOFC cathode"
14:30 – 14:50	Coffee break	
	Electrolysis Systems II	Advanced Inorganic Materials II
	Chair: Espen Sandnes	Chair: Naoya Nishi and Fride Vullum-
		Bruer
14:50 – 15:10	Thomas Holm, NTNU	Xinchi Chen, Department of Materials
	"FEM modelling of diffusional	Science and Engineering, NTNU
	electrochemical impedance	"Novel cathode materials for Mg-ion
	spectroscopy at a channel electrode"	batteries"
15:10 – 15:30	Taiki Morishige, Kansai University	Muhammad Hasanuzzaman,
	"Effect of overpotential on metal fog	Department of Materials Science and
	formation during Li electrolysis in the	Engineering, NTNU
	eutectic LiCl-KCl melt"	"New silica based anodes combined
		with alginate binders for Li-ion
		batteries"
15:30 - 15:40	Break	



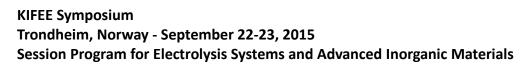


Joint Sessi	Joint Session II			
Chairs: Toshiyuki Nohira and Geir Martin Haarberg				
15:40 – 16:30 Short		presentations for posters (2 min each)		
	P1	Belma Talic, Department of Materials Science and Engineering, NTNU		
		"Protective coatings for solid oxide fuel cell interconnects - influence of coating		
		density"		
	P2	Susanne Linn Skjærvø, Department of Materials Science and Engineering, NTNU		
		"In situ studies of phase developments during synthesis of alkali niobates"		
	Р3	Yuta Kimura, Tohoku University		
		"The influence of ferroelastic domain reorientation on mechanical properties of		
		La0.6Sr0.4Co0.2Fe0.8O3-δ"		
	P4	Temesgen Debelo Desissa, University of Oslo,		
		"Interface properties at n/p junction of oxide thermoelectric materials"		
	P5	Katie Inzani, Department of Materials Science and Engineering, NTNU		
		MoO3 as intermediate band material in solar cells		
	P6	Nikola Kanas, Department of Materials Science and Engineering, NTNU		
		"Ceramics processing of all-oxide thermoelectric device"		
	P7	Sathya Singh, Department of Materials Science and Engineering, NTNU		
		"Development of oxide n-conductors for thermoelectric devices"		
	P8	Geofrey Sahini Mtabazi, Department of Materials Science and Engineering,		
		NTNU		
		"Self-healing of dense oxygen permeable membranes"		
	P9	Mads Christensen, Department of Materials Science and Engineering, NTNU		
		"Lead-free piezoelectric thin films by wet chemical deposition"		
	P9	Antoine Dalod, Department of Materials Science and Engineering, NTNU		
		"Synthesis of in situ surface functionalized TiO2 nanoparticles with silane coupling		
	P10	Ayumu Matsumoto, Kyoto University		
		"Underwater Laser-Induced Breakdown Spectroscopy Combined with		
		Electrodeposition for Sensitive and Quantitative Elemental Analysis of Dissolved		
		Metal Ions"		
	P11	Thomas Holm, Department of Materials Science and Engineering, NTNU		
		"Electrochemical impedance spectroscopy at a downstream electrode: Spiral		
		impedance"		
	P12	Ingrid Roten Mattson, Department of Materials Science and Engineering, NTNU		
		"MnO2-carbon composite electrodes for supercapacitors"		

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	P13	Wojciech Gebarowski, Department of Materials Science and Engineering, NTNU
	113	"Electrochemically active area in relation to surface morphology of anodes in
		aluminium cells"
	D1.4	
	P14	Sigrid Lædre, Department of Materials Science and Engineering, NTNU
		"Bipolar plate for PEM systems"
	P15	Babak Khalaghi, Department of Materials Science and Engineering, NTNU
		"Supplying of Methane through Porous Carbon Anodes during Aluminium
		Electrolysis"
	P16	Peng Cui, Department of Materials Science and Engineering, NTNU
		"Current efficiency of aluminium electrolysis in a KF-AIF3 based electrolyte in
		laboratory cell"
	P17	Wenting Xu, Department of Materials Science and Engineering, NTNU
		"DSA for oxygen evolution during copper electrowinning"
	P18	Henrik Åsheim, Department of Materials Science and Engineering, NTNU
		"Partial anode effects during aluminium electrolysis"
	P19	Seiji Katakura, Kyoto University
		"Electrode potential effect on the interfacial structures of a quaternary ammonium
		based ionic liquid: a molecular dynamics study"
	P20	Akifumi Ido, Kyoto University
		"Impurity Segregation during Precipitation of Silicon from Liquid Si-Zn Alloy in
		Molten CaCl2"
	P21	Kazumi Saeki, Kyoto University
		" Effects of Temperature on the Optimization of Electrodeposition of Crystalline
		Silicon Films in Water-soluble KF-KCl Molten Salt"
	P22	R. Bock, NTNU and Sør Trøndelag University College
		"Thermal conductivities for PEMFC materials"
	P23	F. Richter, NTNU
		"Li-ion secondary batteries and temperature management"
	P24	O. S. Burheim, NTNU and Sør Trøndelag University College
		"Tsuper Capacitor Thermal Conductivity"
	P25	B. Volseth, NTNU and Sør Trøndelag University College
		"Impact of Flow Patterns in Reverse Electrodialysis - RED"
	P26	A. Zlotorowicz, NTNU and Sør Trøndelag University College
		"Determination of Water transference number in Reverse Electridialysis – RED"
16:30 – 18:00	Poster	Session
17:00	Co-chair meeting	
17:00	Co-chail meeting	





	Wednesday September 23 - Nanovrimle				
Joint Session	Joint Session III				
Chairs: Hire	Chairs: Hiroshi Inoue and Ana Maria Martinez				
9:00 - 9:20	Jonathan Pontus, SINTEF Materials and Chemistry				
	"First-principles studies of ceramic interfaces in energy conversion devices"				
9:20 - 9:40	Yasuhiro Fukunaka, Waseda University				
	"Electrochemical Nucleation & Growth"				
9:40 - 10:00	Ann Mari Svensson, NTNU				
	"Effect of a Boron Based Anion Receptor on Graphite Anode in Li-ion Batteries"				
10:00 - 10:20	Ana Maria Martinez, SINTEF Materials and Chemistry				
	"High Temperature Electrolysis Processes and Relevance for Rare Earth's Recycling"				
10:20 - 10:40	Kjell Wiik, Department of Materials Science and Engineering, NTNU				
	"Oxide thermoelectric materials"				
10:40 - 11:00	Coffee break				
Joint session	on IV				
Chair: Sign	e Kjelstrup				
11:00 – 11:20	Frode Seland, Department of Materials Science and Engineering, NTNU				
	"Low temperature fuel cells – where are we going?"				
11:20 - 11:40	Koji Amezawa, Tohoku University				
	"Experimental evaluation of reaction distribution in solid oxide fuel cell cathode"				
11:40	Lunch				