OCTOBER 16-18, 2016 SHANGHAI, CHINA

CONFERENCE PROGRAM

Organized by:

Donghua University (State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, Research Institute of Functional Materials), China

Sponsored by:

National Institute for Materials Science, Japan Shanghai Institute of Ceramics, CAS, China University of Tsukuba, Japan Shanghai University, China Guangdong University of Technology, China



Acknowledgements





(合作交流—NSFC-9SPS(中日1)

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- -Design and advanced processing of strong Zr(Hf)B₂-based ultra high temperature ceramics and MAX phase ceramics
- -高强 Zr(Hf)B2 基超高温陶瓷和 MAX 相材料的设计与先进制备工艺研究

Workshop on Advanced Inorganic Materials

October 16-18, 2016 | Liston Hotel | Songjiang District, Shanghai, China

Advanced inorganic materials are gaining much more attentions due to their unique property combinations of structural behaviors and abundant functionalities for applications in the fields of energy, environment, aerospace, electronics, health, medicine, and many others. With the successful experience of the first Workshop on Advanced Inorganic Materials (WAIM 2015, Shanghai), we cordially invite you to attend the WAIM 2016.

This workshop promotes the information exchange between the scholars, scientists and engineers from different research backgrounds. Young researchers are especially welcome to participate. The topics cover all aspects related to advanced inorganic materials including: Innovative processing and synthesis; Microstructure and interface tailoring; New functionalities and performance improvement; Mechanical properties and reliability prediction; Basic science, modeling and simulations; Industrial applications.

Organizers:

Zhang, Guo-Jun (Donghua University, China)

Sakka, Yoshio (NIMS, Japan)

Wang, Wenzhong (SICCAS, China)

Suzuki, Yoshikazu (University of Tsukuba, Japan)

Lin, Hua-Tay (Guangdong Univ. of Tech., China)

Tohru S. Suzuki (NIMS, Japan)

Jiang, Wan (Donghua University, China)

Ohji, Tatsuki (AIST, Japan)

Gu, Hui (Shanghai University, China)

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Sponsors:

National Institute for Materials Science (Research Center for Functional Materials), Japan

Shanghai Institute of Ceramics (State Key Laboratory of High Performance Ceramics and Superfine Microstructure), CAS, China

University of Tsukuba (Graduate School of Pure and Applied Sciences), Japan Shanghai University (School of Materials Science and Engineering), China Guangdong University of Technology (School of Electromechanical Engineering), China

Venue: Liston Hotel

Address: Sanxin North Road, 900 Lane, No. 610, Songjiang New Town (Thames town), Shanghai



Program for Oct. 17, 2016

	8:30-8:40	Opening Remarks	Chair: Guo-Jun Zhang			
		Session 1	Chair: Guo-Jun Zhang			
I-1 (8:40-9:10)	Sakka, Yoshio	National Institute for Materials Science, Japan	Development of electric current activated/ assisted sintering (ECAS) (Invited)			
I-2 (9:10-9:40)	Lin, Hua-Tay	Guangdong University of Technology, China	Innovative Manufacturing of advanced silicon nitride ceramics (Invited)			
I-3 (9:40-10:10)	Suzuki, Yoshikazu	University of Tsukuba, Japan	Self-organized formation of spherical porous granules only by one-step heat-treatment (Invited)			
I-4 (10:10-10:40)	Gao, Yanfeng	Shanghai University, China	VO ₂ Flexible Foils for Thermochromic Smart Window Applications (Invited)			
	10:40-11:00 Group photo & Tea break					
		Session 2	Chair: Hua-Tay Lin			
I-5 (11:00-11:30)	Wang, Hongzhi	Donghua University, China	Inorganic materials used for smart electrochromic films / fibers: old materials embrace a new spring (Invited)			
O-1 (11:30-11:45)	Uchida, Yuichi	Tokyo University of Science, Japan	Fabrication and mechanical properties of textured Ti ₃ SiC ₂ MAX phase systems			
O-2 (11:45-12:00)	Zhou, Beiying	Donghua University, China	Silica-based luminescent glass prepared by spark plasma sintering			
O-3 (12:00-12:15)	Kobayashi, Mariko	University of Tsukuba, Japan	Synthesis of SrTiO3 nanoparticles by solution-derived			
			processes			
O-4 (12:15-12:30	Ni, De-Wei	Shanghai Institute of Ceramics, China	processes A novel fabrication method for Cf/SiC-ZrC-ZrB ₂ and its properties			
	,	Ceramics, China 2:30-14:00 Lunch	A novel fabrication method for Cf/SiC-ZrC-ZrB ₂ and its properties			

Program for Oct. 18, 2016

		Session 3	Chair: Yoshikazu Suzuki			
I-6	Suzuki, Tohru	National Institute for	Microstructure control in			
(8:30-9:00)	S.	Materials Science,	bulk ceramics by colloidal			
,		Japan	processing in a magnetic			
		•	field (Invited)			
I-7	Mehdi Estili	National Institute for	Water-dispersible Carbon			
(9:00-9:30)		Materials Science,	Nanostructures to Fabricate			
		Japan	Advanced Composite			
			Materials (Invited)			
I-8	Xu, Fangfang	Shanghai Institute of	Structure-property			
(9:30-10:00)		Ceramics, China	relationships in SiAlON			
			phosphors (Invited)			
I-9	Fan, Yuchi	Donghua University,	Graphene/metal oxide			
(10:00-10:30)		China	composites (Invited)			
10:30-10:50 Tea break						
		Session 4	Chair: Yoshio Sakka			
O-5	Shih, Hsin-Yu	University of	Preparation and efficiency			
(10:50-11:05)		Tsukuba, Japan	enhancement of lead-free			
0.6		G1 1.11 1.	perovskite solar cells			
0-6	Liu, Hu-Lin	Shaanxi University	Synergetic roles of ZrC and			
(11:35-11:50)		of Science &	SiC on tailoring of			
		Technology, China	microstructures and			
			mechanical properties in			
			ternary ZrB ₂ -SiC-ZrC ceramic			
O-7	Kawamahi	University of	Preparation and			
(11:20-11:35)	Kawaguchi, Kanako	Tsukuba, Japan	microstructure control of			
(11.20-11.33)	IXaliakU	18ukuva, Japan	magnetoplumbite-type			
			LaMgAl ₁₁ O ₁₉			
O-8	Ma, Haibin	Shanghai Institute of	Effect of WC or ZrC			
(11:05-11:20)		Ceramics, China	addition on thermal			
			residual stresses in			
			ZrB ₂ -SiC ceramics			
I-10	Wang,	Shanghai Institute of	Photo/thermo- synergistic			
(11:50-12:20)	Wenzhong	Ceramics, China	catalysts towards solar energy conversion with			
			high efficiency (Invited)			
i e	12:20-14:00 Lunch					
	12	2:20-14:00 Lunch				

Posters

	Presenter	Affiliation	Presentation
P-1	Wu, Wen-Wen	Shaanxi Normal	Microstructure and
		University, China	high-temperature strength of
			textured and non-textured
			ZrB ₂ ceramics
P-2	Liu, Ji-Xuan	Shanghai Institute of	High temperature strength of
		Ceramics, China	HfB ₂ -SiC ceramics
P-3	Zhao, Tao	Donghua University,	Monodisperse mesoporous TiO ₂
		China	microspheres for dye sensitized
			solar cells
P-4	Gu, Yifeng	Shanghai Institute of	Pressureless sintering of
		Ceramics, China	titanium carbide doped with
D 5	Wang Vin Cana	Chanabai Institute of	boron or boron carbide
P-5	Wang, Xin-Gang	Shanghai Institute of	Defects, Microstructures
		Ceramics, China	Tailoring and Properties of
			ZrC Ceramics for Harsh
D. (I : E-:	Classic Institute of	Environment Applications
P-6	Li, Fei	Shanghai Institute of	Preparation of zirconium
		Ceramics, China	carbide based cellular
			ceramics with open/closed cell
			structures via direct Foaming
D 7	I. Vicefera	Donahua Hairranitu	methods Draw and in a f
P-7	Lu, Xiaofang	Donghua University,	Preparation of
		China	AgNWs(AgNPs)/Bi ₂ Te ₃
			nanocomposites with enhanced thermoelectric
D 0	Des Viers	Claration In all In additions of	properties Commercial and Time AIC and
P-8	Du, Yina	Shanghai Institute of	Corrosion of Ti ₃ AlC ₂ and
		Ceramics, China	Ti ₂ AlC in 500°C supercritical
D 0	Dog Waishes	Chanahai Iratituta af	water Modification of accident
P-9	Bao, Weichao	Shanghai Institute of	
		Ceramics, China	tolerant zircaloy surface with
			ceramics