

# GOLDEN ACADEMY

## Message from the organizers

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Dear Colleagues and Friends,

2016 International Conference for Top and Emerging Materials Scientists (IC-TEMS 2016) will be held in Zhuhai, China during July 15-18 2016.

IC-TEMS 2016 is aimed at providing an international platform for the exchange and networking between top scientists, emerging young researchers, and students across a wide spectrum of materials science and engineering from US, Canada, UK, EU countries, and Asia Pacific areas including Japan, Korea, India, Singapore, Taiwan, Hong Kong and China.

We would like to invite you to participate in IC-TEMS 2016. Your active participation is the key to the success of this conference.



Yours Sincerely,

IC-TEMS 2016 Committee

Asia Pacific Society for Materials Science (APSMR)

[www.apsmr.org](http://www.apsmr.org)



# GOLDEN ACADEMY

## **Conference organizing committee**

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### **CONFERENCE CHAIRS**

**Prof. Jiehua LIU (HeFei University of Technology, China)**

**Prof. Hyung-Ho PARK (Yonsei University, Korea)**

**Prof. Li REN (South China University of Technology, China)**

**Prof. Wen-Yong LAI (Nanjing University of Posts & Telecommunications, China)**

### **CONFERENCE PROGRAM DIRECTOR**

**Dr. Yingxue SONG (APSMR)**

### **CONFERENCE SECRETARIAT**

**Ms. Yangjun HU (APSMR)**



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## Conference topics

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**Structure materials and Functional Coatings (metals, ceramics, and composites): No. 8-12**

**Materials for Energy (saving, conversion, transfer, storage) and Environment plus Electrochemistry: No. 6, 13-15, 18-21**

**Optics and Photonic Materials: No. 16, 17**

**Electronics, Magnetics and Nanomaterials: No. 5**

**Organic Materials and Biomaterials: No. 1-4**

**Theory, Characterization and Computational Modeling of Materials: No. 7**

	FRI, 07/15	SAT, 07/16	SUN, 07/17	MON, 07/18
9:30 – 10:30	Staff Meeting	Oral Presentation		Conference Excursion
10:30 – 10:40		Coffee & Tea Break		
10:40 – 12:30		Oral Presentation		
12:30 – 13:30	Lunch Break			
13:30 – 15:00		Oral Presentation	Oral Presentation	
15:00 – 15:15	Conference Registration	Coffee & Tea Break	Coffee & Tea Break	
15:15 – 17:45		Oral Presentation	Oral Presentation	
17:45 – 18:00		Break		
18:00 – 18:30		Poster Session		
18:30 – 20:30		Conference Banquet		
20:30 – 22:00	Conference Reception			

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## Presentation List

	FRI, 07/15	SAT, 07/16	SUN, 07/17	MON, 07/18
9:30 -	Staff Meeting	1. X.Z. YANG	13. W.B. LI	Conference Excursion
10:30		2. Y.J. ZHANG	14. H.H. PARK	
10:30 -		Coffee & Tea Break		
10:40	3. Y.C. WANG 4. M. GAO 5. Q.H. WU 6. R. WU	15. J.W. KIM 16. P. LU 17. G.H. XIE 18. R. VIRTUDAZO		
10:40 -				
12:30				
12:30 -			Lunch Break	
13:30		7. Z.H. JIA	19. J.H. LIU	
13:30 -		8. H.J. JI	20. J. YAN	
15:00		9. N.G. WANG	21. R.T. LV	
15:00 -	Conference Registration	Coffee & Tea Break	Coffee & Tea Break	
15:15		10. W. WANG		
15:15 -		11. S.H. WEN		
17:45		12. P. YUWEN		
17:45 -		Break		
18:00		Poster Session		
18:00 -	Conference Banquet (Approx. 2 hrs)			
18:30				
18:30 -	Reception			
20:30				
20:30 -				
22:00				

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## Presentations for IC-TEMS 2016

### SATURDAY 07/16

1. Tumor Microenvironment-Activated Polymeric Micelles for Targeted Drug Delivery in Cancer Therapy (X.Z. YANG, Hefei University of Technology)
2. Tuning Autophagy-inducing Activity and NLRP3 Inflammasome Activation for Lanthanide Nanocrystals Through Specific Surface-coating Peptide (Y.J. ZHANG, University of Science and Technology of China)
3. A Holistic Approach to Optimal Nanomedicine Delivery by Surface Charge Modulation (Y.C. WANG, University of Science and Technology of China)
4. Aggregation-Induced Emission Based Biosensors (M. GAO, South China University of Technology)
5. Applications of Iron Oxide Nanostructures in Lithium-Ion Batteries (Q.H. WU, Quanzhou Normal University)
6. Factors Controlling the Performance of Thermal Insulation Materials and Heat Barrier Coatings (R. WU, National Institute for Materials Science)
7. Transformation of Precipitates in Al-Mg-Si-Cu Alloys (Z.H. JIA, Chongqing University)
8. ~~Ultrasonic Assisted Soldering by Sn Based Solder for Die Attachment in High Power Device Packaging (H.J. JI, Harbin Institute of Technology Shenzhen Graduate School)~~ **Cancelled**

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9. Experimental Testing and FEM Calculation of Impedance Spectra of Thermal Barrier Coatings: Effect of Measuring Conditions (N.G. WANG, Xiangtan University)
10. Improved Hot Corrosion Resistance of Dy-Co-Modified Aluminide Coating by Pack Cementation Process on Nickel Base Superalloys (W. WANG, Beihang University)
11. Improvement of Oxidation Resistance of a Mo-67Si-5B Alloy at 1250°C Via In-situ Pre-Formed SiO<sub>2</sub> Fabricated by Ball Milling and Subsequent Sintering Plasma Sintering (SPS) (S.H. WEN, Beihang University)
12. Improved Hot Corrosion Resistance of Dy-Co-Modified Aluminide Coating by Pack Cementation Process on Nickel Base Superalloys (P. YUWEN, Beihang University)

## **POSTER SESSION**

- P1. Study of Functionally Graded WC-Co/WC-Fe-Ni Double Layer Cemented Carbides (Y. GAO, Central South University)
- P2. Synthesis of Barium-Strontium Ratio Controlled Barium-Strontium Titanate Nanoparticles at Low Temperature (W.J. HAN, Yonsei University)

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P3. The Properties of Cl-doped ZnO Transparent Conducting Oxides Thin Films Formed by Atomic Layer Deposition (K.M. KANG, Yonsei University)

P4. Thermoelectric Properties of Au Nanoparticles Incorporated Mesoporous ZnO Thin Films by Using Reverse Micelle Structure (M.H. HONG, Yonsei University)

P5. A Study for Flexibility of Silica Aerogel Using Defective Bonding Structure (H.N. JUNG, Yonsei University)

P6. A Study on Comparison of Feature Analysis of Polymer Aerogels Using 2-Ethylhexyl Acrylate And 2-Ethylhexyl Methacrylate (K.Y. LEE, Yonsei University)

P7. Effect of Ag and Cu Additions on Natural Aging and Precipitation Hardening Behavior in Al-Mg-Si Alloys (Y.Y. WENG, Chongqing University)

P8. The Structure Stability of Al<sub>3</sub>Zr Precipitates in Al-Cu-Zr Alloy (M.Q. ZHAO, Chongqing University)

P9. Reserved

P10. Reserved

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## SUNDAY 07/17

13. Catalytic Combustion of Toluene on Manganese-Containing Mixed Oxides (W.B. LI, Graduate School at Shenzhen, Tsinghua University)
14. Control of Thermoelectric Properties in Mesoporous Structured Materials (H.H. PARK, Yonsei University)
15. Advanced Display Applications Using Colloidal Cd-Free Quantum Dots (J.W. KIM, Kyonggi University)
16. Efficient Deep Blue Electroluminescence Based on Phenanthroimidazole (P. LU, Jilin University)
17. High Performance Dendrimers for Organic Light-emitting Diodes Featuring Thermally Activated Delayed Fluorescence (G.H. XIE, Wuhan University)
18. Simple Preparation of Amine-Functionalized Porous Hollow Silicate Microparticles as CO<sub>2</sub> Sorbent-Fillers (Supports) for Thermal Energy Saving Applications (R. VIRTUZZO, National Institute for Materials Science)
19. Novel 2D and 3D Nanoarchitectures for Ultrafast-Charging Lithium Ion Batteries (J.H. LIU, Hefei University of Technology)
20. All Solid Supercapacitors Based on Solid Polymer Electrolytes (J. YAN, Hefei University of Technology)



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21. Controllable Growth and Efficient Molecular Sensing of Large-Area Doped Graphene (R.T. LV, Tsinghua University)