

GOLDEN ACADEMY

Message from the organizers

Dear Colleagues and Friends,

2017 International Conference for Leading and Young Materials Scientists (IC-LYMS 2017) will be held in Haikou, China, during December 24-27 2017.

IC-LYMS is being held every year and intends to provide a platform for the exchange and networking between top scientists, emerging young researchers, and students across a wide spectrum of materials science and engineering.

We would like to invite you to participate in IC-LYMS 2017. Your active participation is the key to the success of this conference.



Yours Sincerely,

IC-LYMS 2017 Committee

Asia Pacific Society for Materials Science (APSMR)

www.apsmr.org



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Conference organizing committee

CONFERENCE CHAIRS

Prof. Junjiang ZHU (South-central University For Nationalities)

Prof. Louzhen FAN (Beijing Normal University)

Prof. Bianying WEN (Beijing Technology and Business University)

Prof. Shen-Kung LIAO (Feng Chia University)

Prof. Yen-Ho CHU (National Chung Cheng University)

CONFERENCE PROGRAM DIRECTORS

Dr. Yingxue SONG (APSMR)

CONFERENCE SECRETARIAT

Ms. Yaru WU (APSMR)

Ms. Yangjun HU (APSMR)



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Conference topics

1. **Structure materials and Functional Coatings (metals, ceramics, and composites)**
2. **Materials for energy (saving, conversion, transfer, storage) and environment plus electrochemistry**
 - 2.1. **Photovoltaics**
 - 2.2. **Batteries and Fuel Cells**
 - 2.3. **Materials for Thermal Management and Thermal Energy Utilization**
 - 2.4. **Materials for Energy and Environmental Applications**
3. **Optics and Photonic Materials**
4. **Electronic, Magnetic and Nanomaterials**
5. **Polymer Science and Molecular Chemistry**
6. **Organic Materials and Bio-materials**
7. **Materials Characterization and Computational Modeling**

	SUN, 12/24	MON, 12/25	TUE, 12/26	WED, 12/27
9:00 – 10:20	Pre-session technical and discussion forums	Plenary Presentation		
10:20 – 10:30		Coffee & Tea Break		
10:30 – 12:00		Oral Presentation		
12:10 – 13:00		Lunch Break		Conference Excursion
13:10 – 14:40		Oral Presentation		
14:40 – 14:50		Coffee & Tea Break		
14:50 – 16:30		Oral Presentation		
17:00 – 18:30	Conference Registration		Poster Session	
19:00 – 20:30	Reception		Conference Banquet (Approx. 1.5 hrs)	

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Presentation List (No. 1 Meeting Room)

	SUN, 12/24	MON, 12/25	TUE, 12/26	WED, 12/27
9:00 – 10:20	Pre-session technical and discussion forums	1. Y. YAN 2. J. XU	12. H.X. DAI 13. I.K. SOU	23. Reserved 24. Reserved
10:20 – 10:30		Coffee & Tea Break		
10:30 – 12:00		3. L.Z. FAN 4. Y.C. LI 5. X.H. LI	14. J.J. ZHU 15. W.H. CHEN 16. H.Y. ZHOU	
12:10 – 13:00		Lunch Break		Conference Excursion
13:10 – 14:40		6. T.C. WU 7. S.H. CAI 8. Z.H. XIE	17. Y.T. TAO 18. L.Y. XU 19. D.P. YAN	
14:40 – 14:50		Coffee & Tea Break		
14:50 – 16:30		9. X.L. ZENG 10. H. HIRAO 11. W.L. WANG	20. X.Z. AN 21. W. JIANG 22. B. JIN	
17:00 – 18:30	Conference Registration		Poster Session	
19:00 – 20:30	Reception		Conference Banquet (Approx. 1.5 hrs)	

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Presentations for IC-LYMS 2017

MONDAY 12/25

1. Fluorescent vesicles made with AIE molecules for self-imaging drug carriers, enzyme responsive fluorescent theronostics, and models for cancer cells (Y. YAN)
2. Fundamental Research and Industrial Applications of Biodegradable Poly(butylene succinate)s (J. XU)
3. Shining carbon dots: Synthesis and biomedical and optoelectronic applications (L.Z. FAN)
4. Wet-chemical Synthesis of Ultrathin Semiconductor Nanowires for High-performance Photodetectors (Y.C. LI)
5. Cation Concentration Dependent DNA G-quadruplex Conformational Change (X.H. LI)
6. Factors Controlling the Performance of Thermal Insulation Materials and Heat Barrier Coatings (T.C. WU)
7. Tailored microstructure of thermal barrier coatings by EB-PVD (S.H. CAI)
8. The dependence of electroplating and thermal diffusion treatment conditions on properties and performance of Pt diffusion bond coat. (Z.H. XIE)
9. Thermal Conductivity of Polymer Composites for Electronic Packaging (X.L. ZENG)
10. Computational Exploration of the Microscopic World of Molecules and Materials (H. HIRAO)

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11. DFT study on the interface of $\text{LiMn}_x\text{Fe}_{1-x}\text{PO}_4@C$ (W.L. WANG)

TUESDAY 12/26

12. Combustion of Typical VOCs over 3DOM Co_3O_4 -supported Au, Au-Pd, and Au-Pd-CoO Catalysts (H.X. DAI)

13. 2D Quantum Materials and Nano-materials and Their Applications (I.K. SOU)

14. Application of graphitic carbon nitrides in heterogeneous catalysis (J.J. ZHU)

15. Intelligent Textiles with Adaptive Thermoregulation Realized by Temperature-responsive (W.H. CHEN)

16. Design and Synthesis of Nano-Combinatorial Libraries for Regulation of Nanoparticles's Biological Properties (H.Y. ZHOU)

17. Heavy Metal Containing Terpolymers for Polymer Solar Cells (Y.T. TAO)

18. Ag Nanoparticles - based Hybrid Ink with Low Metallization Temperature (L.Y. XU)

19. Long-afterglow Phosphorescent Metal-Organic Frameworks: Assembly and Applications (D.P. YAN)

20. High Velocity Compaction on Al/SiC Composite Powders with Core-shell Structure- A MPFEM Study (X.Z. AN)

21. Experimental Studies and Modified Model for the Transition from Internal to External Oxidation of Three-phase Nb-Si-Cr alloys (W. JIANG)

22. TBA (B. JIN)

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POSTER SESSION

- P1. Synthesis and Dyeing Properties of New Pyridine Benzanthrone Structure Dyes for Nylon 6 and PET Fabrics (W.Y. CHEN)
- P2. Modified Vinylsulphone Reactive Dye for Dyeing of Different Fibers with Supercritical Fluid Carbon Dioxide (R.C. WANG)
- P3. Influence on transition state of $\text{LiMn}_x\text{Fe}_{1-x}\text{PO}_4@C$ by ratio of manganese and iron (K.P. WANG)
- P4. Influence of different lithium sources on the morphology, structure and electrochemical performances of lithium-rich layered oxides (K. CAO)
- P5. How Does CO_2 react with Styrene Oxide in Co-MOF-74 and Mg-MOF-74? Catalytic Mechanisms Proposed by QM/MM Calculations (H. HIRAO)
- P6. Mechanisms and mitigation of volcanic ash attack on alumina doped yttria stabilized zirconia thermal barrier coatings (M. LIU)
- P7. The mechanisms and mitigation of rare earth doped YSZ against molten volcanic ash attack (R.C. LI)
- P8. Sol-gel based synthesis of protective alumina coatings & residual stress measurement by PLPS (Z.M LI & W.H. LI)

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WEDNESDAY 12/27

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24. Reserved