

## *3<sup>rd</sup> Circular & Call for Papers*

# **The 8<sup>th</sup> International Conference on Advances and Applications of Innovative Energy Materials (AAIEM2018)**

### **Organized by**

Guangxi University, China

Guangxi Association for Science and Technology, China

### **Hosted by**

State Key Laboratory of Processing for Non-ferrous Metal and Featured Materials,  
Guangxi University, China

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**Mobile:** 18376650355

## Scope

The 8<sup>th</sup> International Conference on Advances and Applications of Innovative Energy Materials (AAIEM2018) will be held from November 30<sup>th</sup> to December 4<sup>th</sup>, 2018 in Nanning, China and will be held in the beautiful campus of Guangxi University. The first AAIEM was started in Sun Yat-sen University, Guangzhou in 2001 (AAIEM2001), followed by successful 2<sup>nd</sup> to 6<sup>th</sup> AAIEM in Sun Yat-sen University from 2003 to 2014. The 7<sup>th</sup> AAIEM was transferred to Nanning organized by Guangxi University in 2015.

The Conference consists of plenary talks, invited keynotes, oral and poster presentations, focusing on the most recent advances and developments in novel energy materials, new electrochemical technologies and applications and fundamental understanding in this important field of electrochemical energy storage and conversion technologies. The Conference will provide a forum for leading national and international scientists and engineers to exchange and communicate their work to the next generation of researchers as well as to industry, and thereby inspire the research communities to continuously make the scientific and technological breakthroughs needed to accelerate the transition towards a clean and sustainable energy society.

## Topics

Five main themes will be covered in this Conference, including Fuel Cells, Batteries, Electrochemical Capacitor and Renewable Energy Materials, Fundamental Electrochemistry and Electric Vehicles.

### **E1 -- Fuel cells**

This symposium is devoted to all aspects of research, development, and engineering of high temperature solid oxide fuel cells (SOFCs), direct carbon fuel cells, microbial fuel cells, polymer electrolyte fuel cells (PEFCs), as well as direct alcohol fuel cells using either anion or cation exchange membranes. The intention is to bring together the international community working on the subject and to enable effective interactions between research and engineering communities. The symposium is structured as different sections covering diagnostic techniques and stack systems design/components; catalysts and membranes, methanol and ethanol reforming to produce hydrogen

for fuel cells; included are also interconnect/bipolar plates, performance degradation and novel nano-structured materials and smart carbon-based materials for fuel cells.

## **E2 -- Batteries**

Batteries in particular Lithium-ion batteries have been the workhorses in portable electronic devices such as cellular phones, laptop computers, and digital cameras. In recent years, lithium-ion batteries are being used for plug-in hybrid electric vehicle (PHEV) and full electric vehicle (EV) applications. This symposium is a forum for discussion on both fundamental and applied aspects of lithium-ion and other types of batteries such as flow batteries, lead-acid batteries and metal/air batteries. Specific areas to be covered include but not limited to: (1) Electrode design, characterization, and performance. (2) Electrolyte development and characterization. (3) Novel electrode processing and cell design. (4) Electrode interfacial studies and diagnostic techniques. (5) Materials, electrode, and cell modelling. (6) Elucidation of aging and failure modes and mechanisms, and (7) PHEV and EV performance, fast charge/discharge, safety and market prospect, etc.

## **E3 – Electrochemical capacitors and renewable energy materials**

Electrochemical capacitors (i.e., “supercapacitors” or “ultracapacitors”) are emerging as an attractive energy-storage solution for new technologies with challenging power/energy requirements. The goal of this symposium is to address all aspects of electrochemical capacitor research, development, and real-world applications. They are: nanostructured materials including graphene, metal oxides, nitrides, other advanced inorganic materials, and conducting polymers; characterization and optimization of practical electrochemical capacitor components, new device designs (symmetric and asymmetric), and hybrid systems; theory and modelling as tools; and application tests of electrochemical capacitors in real-world conditions. Included are also renewable fuel and hydrogen production, electrochemical reduction of carbon dioxide, water splitting, and other electrochemical devices like electrolyzers, electrochemical hydrogen pumps, etc.

## **E4 -- Fundamental electrochemistry**

This symposium will cover all aspects of the fundamental electrochemistry, electrochemical interfaces and new and in situ electrochemical characterization techniques related to energy storage,

energy conversion; cutting-edge researches of electrochemical science and technology. The fundamental phenomena related to the nano or mesoporous structured electrode and membrane materials are to be covered. Developments in the new and smart carbon materials like graphene and their fundamental electrochemical and computational understanding will also be welcome.

### **E5 – Electric vehicles**

Meeting the Electric Vehicles challenge: cycle life, power & energy, cost and safety. The symposium covers all kinds of electric vehicles including all-electric or battery electric vehicles (BEVs), plug-in hybrid vehicles, (PHEVs), and electric vehicle conversions of hybrid electric vehicles and conventional internal combustion engine vehicles. Materials and technologies related to improved car parts performance like fast charge/discharge batteries, auto lightweight technology, long-life oils, anti-friction tyres.

## **Conference Language**

The official language of the conference is English. The oral presentations and posters will be in English.

## **Venue**

The conference will be held in the campus of the Guangxi University, <http://www.gxu.edu.cn/>  
Address: 100 Daxue Road, Nanning, 530004, China



Nanning is the capital city as well as the center of politics, economy, culture, education, technology, information and finance of Guangxi Zhuang Autonomous Region. The city exercises jurisdiction over five districts and two counties. With a total population of 2,945,600, Nanning covers an area of 10,029 square kilometers. On its east there are Guangdong province, Hong Kong and Macao; on its south there is Beibu Gulf.

Nanning is a green city, and is renowned for its green mountains and clear waters, fresh air, beautiful flowers blooming in every season and also for the aroma of melon and fruit around the city. The average temperature in November is around 16–24 °C. It has good ecological environment and investment environment. The administrative management here is highly efficient and incorruptible. It is an ideal city for investment, trade, meeting, exhibitions, tourism and residence.



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No abstract may go beyond one page.

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Invited and contributed papers will be presented in either oral or poster sessions. One-page abstracts for the symposium must be submitted electronically by September 20<sup>th</sup>, 2018 via [tianzhiqun@gxu.edu.cn](mailto:tianzhiqun@gxu.edu.cn).

For the invited speakers, as a token of appreciation, the organizing committee will give the speaker an honorarium.

**Important Days**

Abstract Submission Close:	September 20 <sup>th</sup> , 2018
Notification of Abstract Acceptance:	September 30 <sup>th</sup> , 2018
Conference Beginning:	November 30 <sup>th</sup> , 2018
Book Chapter Submission Close:	March 30 <sup>th</sup> , 2019

## Confirmed Plenary Speakers

Prof. Douglas R. Macfarlane,

Monash University, Australia

Email: [Doug.Macfarlane@monash.edu](mailto:Doug.Macfarlane@monash.edu)

**Title: High efficiency reduction of N<sub>2</sub> to ammonia using sustainable energy**



Douglas R. MacFarlane

Australian Centre for Electromaterials Science

School of Chemistry, Monash University

Clayton, Victoria, Australia.

E-mail: [doug.macfarlane@monash.edu](mailto:doug.macfarlane@monash.edu)

**Abstract:** Ammonia is both a vital source of fertilizers as well as being seen as a future, sustainable energy store and fuel. Direct electrochemical synthesis of NH<sub>3</sub> from N<sub>2</sub> provides a sustainable production pathway which could potentially address the significant environmental issues associated with current technology (the Haber-Bosch process). However, the electrochemical nitrogen reduction reaction (NRR) typically suffers from both low selectivity < 10% and yield rate ( $\leq 10^{-11}$  mol cm<sup>-2</sup> s<sup>-1</sup>) in aqueous electrolytes. The low NRR performance is caused by the kinetically more facile and thermodynamically favored H<sup>+</sup> reduction to H<sub>2</sub>. In this paper we discuss strategies to suppress H<sub>2</sub> production, including highly-selective multicomponent catalysts and media. In non-aqueous electrolytes selectivity as high as 60% is possible<sup>1</sup>. Yield rates of  $1.5 \times 10^{-10}$  mol cm<sup>-2</sup> s<sup>-1</sup> can be achieved in aqueous solution. First-principle DFT based calculations reveal that the high NRR activity originates from the synergistic interplay between the surface components to produce favorable energetics for binding N<sub>2</sub> and H<sup>+</sup>.

(1) Electro-synthesis of ammonia from nitrogen at ambient temperature and pressure in ionic liquids. Zhou, F.; Azofra, L. M.; Ali, M.; Kar, M.; Simonov, A. N.; McDonnell-Worth, C.; Sun, C.; Zhang, X.; MacFarlane, D. R. *Energy Environ. Sci.* 2017, 10, 2516-2520.

**Prof. Héctor D. Abruña,**

**Cornell University, USA**

**E-mail: [hda1@cornell.edu](mailto:hda1@cornell.edu)**

**Title: Operando Methods for The Study of Energy Materials**



Héctor D. Abruña Department of Chemistry & Chemical Biology  
and Energy Materials Center at Cornell University

Cornell University, Ithaca, New York, USA

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**Abstract:** This presentation will deal with the development of operando methods for the study and characterization of fuel cell and battery materials. The presentation will begin with a brief overview of the methods employed. Particular emphasis will be placed on the use of X-ray diffraction (XRD), X-ray absorption spectroscopy (XAS) X-ray microscopy and tomography and transmission electron microscopy (TEM) under active potential control. The utility of these methods will be illustrated by selected examples including electrocatalysts for the oxygen reduction reaction and spectroscopic studies of Li/S batteries and Li metal deposition and dendritic growth. The use of operando TEM will be illustrated by studies of fuel cell catalyst degradation and coalescence and lithiation/de-lithiation dynamics of LiFePO<sub>4</sub> via energy-filtered TEM. The presentation will conclude with an assessment of future directions.

**Dr. Piotr Zelenay**

**Los Alamos National Laboratory, USA**

**Email: [zelenay@lanl.gov](mailto:zelenay@lanl.gov)**

**Title: Recent Progress in the Development of Platinum Group Metal-free Oxygen Reduction Catalysts for Oxygen Reduction Reaction**



P. Zelenay

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**Abstract:** In this lecture we will review recent development of platinum group metal-free (PGM-free) electrocatalysts for oxygen reduction reaction at Los Alamos National Laboratory (LANL). This effort is an integral part of Electrocatalysis Consortium (ElectroCat), one of several consortia comprising DOE-EERE's Energy Materials Network (EMN). The primary objective of this research is to develop and implement PGM-free catalysts and electrodes by streamlining access to unique synthesis and characterization tools across the U.S. national laboratory system and continuous development of new capabilities. PGM-free research at LANL aims specifically at improving ORR active-site density through the development of new catalysts and advanced electrodes to improve mass transport of oxygen and product water, and to enhance ionic conductivity within the catalyst layer. In general, the approach focuses on fundamental understanding of the origins of the ORR activity in PGM-free catalysts and on the structure and composition of active sites as prerequisites for the rational design of future catalysts with significantly improved activity and performance durability.

We will present latest accomplishments in the development of atomically dispersed and partially nanoparticulate PGM-free catalysts at Los Alamos and methods for identifying and quantifying the ORR active sites and also for assessing the main causes of insufficient durability of the state-of-the-art M-N-C catalysts obtained via the high-temperature approach. The results from both experiment and modeling will be presented, emphasizing complementary character of the two approaches. We will also summarize the results from in situ and ex situ characterization studies, which target molecular-level insight into PGM-free catalysts. In this part of the presentation, we will

concentrate in particular on microscopic and x-ray absorption spectroscopic methods, with their capabilities recently enhanced by the implementation of molecular probes of possible ORR active sites, directly on the catalyst surface, such as nitric oxide (NO) and nitrite anion (NO<sub>2</sub><sup>-</sup>). This approach, pursued in close collaboration with LANL's ElectroCat partners, allows to make otherwise bulk techniques surface-specific.

We will conclude this presentation with a review of the biggest challenges facing PGM-free electrocatalysis for oxygen reduction, including (i) still unsatisfactory activity and durability of catalysts (especially those derived from metal organic frameworks), (ii) inadequate understanding of the catalyst and electrode degradation mechanism, (iii) risks of (over)relying on Fe-based formulations, and (iv) ultimate integration of PGM-free materials with existing automotive fuel cell stack and system technologies.

Prof. Yi Cui

Stanford University, USA.

Email: [yicui@stanford.edu](mailto:yicui@stanford.edu)

**Title: Nanotechnology for Energy, Environment and Textile**



**Yi Cui**

**Department of Materials Science and Engineering, Stanford University.**

**Stanford Institute for Materials and Energy Sciences, SLAC National Accelerator Laboratory.**

**Abstract:** Nanotechnology has provided a novel technology platform which can address critical energy and environmental problems and enable new opportunities. In the past decade, my group has conducted research on innovative ideas to address problems related to energy conversion, storage and saving, and environment cleaning (air, water and soil), to create new opportunities in wearable applications. Here I will show exciting examples, including: 1) high energy battery materials including Si and Li metal anodes and S cathodes; 2) electrochemical tuning of catalysts; 3) Water disinfection using conducting nanofilters and uranium extraction for seawater. 4) Nanofiber air filters for efficient PM2.5 removal and low air resistance. 5) Cooling and heating textile for personal thermal management. Nanotechnology represents the most important foundational technology platform to impact nearly all areas of applications.

Prof. Shigang Sun

Xiamen University, China

Email: [sgsun@xmu.edu.cn](mailto:sgsun@xmu.edu.cn)

**Title: Structure Design and Control-Synthesis of Electrocatalysts for Fuel Cell Applications**

Shi-Gang Sun

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E-mail: [sgsun@xmu.edu.cn](mailto:sgsun@xmu.edu.cn)



**Abstract:** Electrocatalyst is the key in developing electrochemical energy conversion and storage, and in green chemistry of electrosynthesis using electrons as reagents. The activity, selectivity and stability of electrocatalysts depend strongly on both their bulk and surface structures. Therefore, the rational design and control-synthesis of electrocatalysts are the central subjects and are mainly based on a well understanding in structure-catalytic functionality, which was achieved in the past through employing metal single crystal planes as model catalysts. Since practical electrocatalysts often consist of nanosize particles substrated on conductive support materials, design and control-synthesis of nanosize catalysts present effective strategy to overcome the gap between single crystal model catalysts and practical catalysts. This communication describes results focusing on structure design and control-synthesis of both anode and cathode catalysts towards fuel cell applications.

(1) Tuning the surface atomic arrangement of well-defined metal nanocatalysts. Well-defined Pt, Pd, Rh and Cu nanocrystals enclosed by high-index facets have been successfully obtained by developing electrochemically shape-controlled synthesis, such as tetrahexahedral nanocrystals (THH NCs) enclosed with  $\{hk0\}$  high-index facets, trapezohedral nanocrystals (TPH NCs) with  $\{hkk\}$  high-index facets, triambic icosahedral nanocrystals (TIH NCs) with  $\{hhl\}$  high-index facets and hexoctahedral Pt NCs (HOH NCs) with  $\{hkl\}$  facets. As the high-index facets contain a high density of active centers, these NCs of high surface energy exhibit much higher electrocatalytic activity than commercial catalysts for small organic fuel oxidation reactions.

(2) Tuning the electronic structure of Pt- and Pd-based nanocatalysts. The electronic structure of NCs catalysts has been tuned either by surface decoration using foreign adatoms, or through alloying Pt and Pd with other metals. Different adatoms such as Bi, Ru and Au were used to decorate the THH Pt NCs, and both THH and TPH Pt-based alloy nanocatalysts were prepared by electrochemically shape-controlled method. The THH and TPH alloy NCs preserve the high-index facets while hold a synergy of electronic effect that enhances further the electrocatalytic activity.

(3) Synthesis of non-precious metal electrocatalysts with high ORR activity. Fe/N/C is a promising electrocatalyst for oxygen reduction reaction (ORR). By well-screening the precursors, optimizing the synthetic procedures and surface decoration, the resulted Fe/N/C exhibits high activity and stability in both acid and alkaline conditions. The results demonstrated that the Fe/N/C-SCN catalysts in a proton exchange membrane fuel cell (PEMFC) can output a maximum power density



of 1.03 W cm<sup>2</sup>, and by using 2-aminothiazole as precursor the synthesized S-doped Fe/N/C catalyst with graphene nanosheets can yield a peak power density of 164 mW cm<sup>2</sup> in an anion exchange membrane fuel cell (AEMFC).

Acknowledgements. The studies were supported by the National Key Research and Development Program of China (2017YFA0206500) and the National Science Foundation of China (21621091, 21573183, and 21703184)

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**Prof. Zhigang Zou**

**Nanjing University, China**

Email: [zgzou@nju.edu.cn](mailto:zgzou@nju.edu.cn)

**Title: MATERIALS FOR PHOTOCATALYTIC SOLAR FUEL**



Zhigang Zou

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**Abstract:** The concept of using solar energy to solve the global energy and environmental problems are has been intensified from the standpoints to a technological assessment, since the energy and environmental issues in a global level are important themes tackled in the 21st century. The mass consumption of fossil fuels after 20th century has produced negative properties in future such as the exhaustion of petroleum resources and the contamination of environment. In order to continue the global human life, it is very important to exploit new clean energy resources instead of fossil fuels without heavy burden to energy and environment. Exactly the solar energy conversion satisfies above conditions. In this talk, we will introduce advance and development of the solar energy conversion research in our group and the relative research project.

Keywords: Photocatalys, solar fuel, solar energy conversion

## Confirmed Keynote Speakers

Prof. Suddhasatwa Basu,	CSIR-Institute of Minerals & Materials Technology (IMMT), India
Prof. George Z. Chen	University of Nottingham, UK
Prof. Jean-Pol Dodelet,	Institute National de la Recherche Scientifique, Canada
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Prof. Yanxia Jiang	Xiamen University, China
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Presentations can be oral or poster.

The one-page abstract should be sent to [tianzhiquan@gxu.edu.cn](mailto:tianzhiquan@gxu.edu.cn) by September 20<sup>th</sup>, 2018.

All the articles should be sent to [tianzhiquan@gxu.edu.cn](mailto:tianzhiquan@gxu.edu.cn). Any technical questions please contact Prof. Pei Kang Shen ([pkshen@gxu.edu.cn](mailto:pkshen@gxu.edu.cn)).

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## **四、 Exhibition (≥US\$2,500) :**

- (1) As the sponsor of this conference. The company's LOGO will be appeared at the meeting's promotional materials.
- (2) One exhibition tables (about 1.5 m long) and power supply board for product and picture display.
- (3) Two company's Yi Labao at conference venue. (provided by the sponsor).
- (4) Free of registration fee for 1 people.

## **五、 Dinner Sponsorship (≥US\$15,000) :**

- (1) As the sponsor of the conference dinner and the co-organizer of the conference. The company's LOGO will be appeared at the meeting's promotional materials.
- (2) 20 minutes promote speech.
- (3) One person serves as a member of the Organizing Committee.
- (4) Promotional videos provided by sponsor before dinner (VCD / DVD, within 5 minutes).
- (5) One color page in brochures for interstitial advertising (provided by the sponsor).
- (6) Two company's Yi Labao at conference venue. (provided by the sponsor).
- (7) Two exhibition tables (about 1.5 m long) and power supply board for product and picture display
- (8) Free of registration fee for 4 people, and conference titular.
- (9) The person in charge of the company could give a speech at the dinner, and the dinner will be named by the company's name.

#### **六、Venue Advertising (≥US\$10,000) :**

- (1) As the sponsor of this conference. The company's LOGO will be appeared at the meeting's promotional materials.
- (2) One person serves as a member of the Organizing Committee.
- (3) One color page in brochures for interstitial advertising (provided by the sponsor)
- (4) Two exhibition tables (about 1.5 m long) and power supply board for product and picture display.
- (5) A 4m x 6m billboard in the main venue.
- (6) Two company's Yi Labao at conference venue. (provided by the sponsor).
- (7) Free of registration fee for 4 people.

#### **七、Color Promotional Advertising in conference book**

Cover: ¥ 12000      Back Over: ¥ 10000      Title Page 1: ¥ 8000

Cover 2: ¥ 8000      Cover 3: ¥ 6000      Color Inset: ¥ 5000

#### **八、Bags and Volunteer Clothes Sponsorship (≥US\$5,000) :**

- (1) One side is the company's advertisement other side is the logo of the conference on the bags.
- (2) The company's LOGO will be appeared at the meeting's promotional materials.

(3) Free of registration fee for 1 people.

**九、Badges and Lanyard Ads (≥US\$2,500) :**

(1) Card advertising of the participate in the conference (100mm×130mm) .

(2) Free of registration fee for 1 people.

Any questions please contact:

Prof. Shibin Yin

Tel. 13207719409

E-mail: yinshibin@gxu.edu.cn

Registration, support and exhibition fees can be paid to

**Beneficiary:** Guangxi University

**Account number:** 618457484938

**Bank:** Bank of China, Nanning Branch, Sub-branch of Guangxi University

**Bank address:** 100 Daxue Road, Nanning, 530005, P.R. China

**Swift code:** BKCHCNBJ480

All participates reserve rooms, please contacting **Prof. Xinyi Zhang via zhangxinyi@gxu.edu.cn** in advance.

Name	Sex	Hotel Name	Room Type	Days	Remarks



## Hotel information

### 1, Landmark Hotel



永恒朗悦酒店



星级：五星 Hotel rating: 5-star	地址：南宁市大学东路 118 号（雅诗特酒店旁） Address: 118 Daxue Road, Nanning (Beside the Yashite Hotel)	酒店联系电话： Tel: +86-771-2336888
100 meters away from the Guangxi Univ. Entrance		
<b>Information of the hotel rooms</b>		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
豪华双床房 Deluxe Twin Room	478	458
豪华大床房 Deluxe King Room	488	470
时尚大床房 Fashion King Room	528	500
尊荣大床房	598	588

Super King Room		
商务套房 Business Suite	678	668
佩纳宫 (行政套房) Palacio da pena	838	795
浦屏宫 (情侣套房) Phu ping palace	938	800

## 2. Yashite Hotel



星级：准四星 Hotel rating: Quasi-4-star	地址：南宁市大学东路 100-1 号 (广西大学正门旁) Address: 100-1 Daxue Road, Nanning (Beside the front gate of Guangxi University)	酒店联系电话: 0771-5810888/5810799 Tel: +86-771-5810888 +86-771-5810799
20 meters away from the Guangxi Univ. Entrance		
<b>Information of the hotel rooms</b>		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
商务大床房 Business King	284	276

Room		
商务双床房 Business Twin Room	304	296
豪华大床房 Deluxe King Room	359	349
豪华双床房 Deluxe Twin Room	379	369
雅致特惠房 Economic Large Bed Room	284	282

### 3, City Comfort Inn-Nanning, Guangxi University



城市便捷酒店南宁西大店



地址：南宁市西乡塘区火炬路 1 号（创业大厦）	电话 0771-6115111
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Address: 1 Huoju Road, Xixiangtang Region, Nanning		Tel: +86-771-6115111
距离广西大学校门 30 米 30 meters away from the Guangxi Univ. Entrance		
酒店房型资料 Information of the hotel rooms		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
Single Room	243	233
Double Room	254	243

#### 4. 拜伦酒店



地址：南宁市大学东路 106 号（广西大学正门旁）	酒店联系电话： 0771-2212208/2796999
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<p>距离广西大学校门 30 米</p> <p>30 meters away from the Guangxi Univ. Entrance</p>		
<p>酒店房型资料</p> <p>Information of the hotel rooms</p>		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
标准大床房 Standard Large Bed Room	199	185
标准双床房 Standard Double Bed Room	199	185
豪华大床房 Deluxe King Room	219	210
豪华双床房 Deluxe Twin Room	219	210
家庭双床房	239	220

## 5. 嘉悦大酒店



地址: 南宁市大学东路 105 号 (广西大学正门旁)		电话 0771-2336363
距离广西大学校门 30 米 30 meters away from the Guangxi Univ. Entrance		
酒店房型资料 Information of the hotel rooms		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
豪华大床房 Deluxe King Room	229	219
豪华双床房 Deluxe Twin Room	239	224
豪华商务房 Deluxe Business Room	249	240
时尚精品房 Fashion King Room	299	289
休闲麻将房	319	309

## Registration Fee\*

Category	Registration Fee / USD\$ or RMB ¥	Registration Fee / USD\$ or RMB ¥
	Early Registration Before September 30 <sup>th</sup> , 2018	Late Registration After September 30 <sup>th</sup> , 2018
Standard	\$400 or ¥ 2400	\$500 or ¥ 3000
Student	\$200 or ¥ 1200	\$300 or ¥ 1800
Single Day	\$200 or ¥ 1200	
Banquet	\$50 or ¥ 300	

\* Please mark "AAIEM2018" in the postscript and inform **Secretariat** via E-mail:

[tianzhiquan@gxu.edu.cn](mailto:tianzhiquan@gxu.edu.cn).

## Registration Form

Name		Sex		Age, $\sqrt$		
				$\leq 35$	$> 35$	
Affiliation						
Registration Fee / USD\$/RMB ¥						
Banquet / \$50/ ¥ 300 (Registered, free) $\sqrt$	<input type="checkbox"/> Yes		<input type="checkbox"/> No			
Address						
E-mail				Postal Code		
Tel.			Fax			
Presentation $\sqrt$	Oral		Poster		Exhibition	
	Symposium No.					
Abstract Title						
One-day Sino-Vietnam Border Tour—4/12/2018 (Free of charge)	<input type="checkbox"/> Yes		<input type="checkbox"/> No			

\* Age less than 35 is defined as young people.

\*\* Please submit the filled form before September 30<sup>th</sup>, 2018 to Prof. Zhiqun Tian. E-mail: [tianzhiqun@gxu.edu.cn](mailto:tianzhiqun@gxu.edu.cn).

\*\*\* Any participant can pay early-bird fee in cash on site if registered before September 30<sup>th</sup>, 2018.

## **Tentative Program**

<b>Time</b>	<b>Activity</b>	<b>Remark</b>
30/11/2018	Registration at Landmark Hotel, 118 Daxue Road, Xixiangtang Region, Nanning  Reception	    Reception starts at 6:30 pm.
1/12/2018	Conference Opening  Plenary Lecture  Oral Presentation  Poster Exhibition	  Six Plenary Lectures  Forty Keynote Talks
2/12/2018	Plenary Lecture  Oral Presentation  Poster Exhibition  Banquet	    Banquet starts at 6:30 pm.
3/12/2018	Oral Presentation  Poster Exhibition  Conference Closing	Twenty Best Paper Award (Oral and poster)
4/12/2018	One-day Sino-Vietnam Border Tour	Free of Charge for All Participants

## **Confirmed Sponsors**



***Diamond Sponsors:***

Jiangsu Heng Tai Furnace Co. Ltd.



***Platinum Sponsors:***

Jiangsu Jianya Environmental Science & Technology Co., Ltd



Jiangsu Xuwang Technology & Development Co., Ltd.



Thermo Fisher Scientific Co., Ltd.



Phychemi (Hong Kong) Co., Ltd.



Guangxi University



***Gold Sponsors:***

Guangxi Jinhan Environmental Science & Technology Co., Ltd.



Gatan, Inc.



## To be confirmed Sponsors

FEI Trading (Shanghai) Co. Ltd.



Universal Analytical & Testing Instruments Ltd.



Techcomp (Holdings) Ltd.



Rigaku Beijing Corporation



NETZSCH Scientific Instruments Trading (Shanghai) Ltd.



Micromeritics Instrument (Shanghai) Ltd.



Mikrouna (China) Co., Ltd.



Bruker (Beijing) Scientific Technology



Kunshan Sunlaite New Energy Technology Co., Ltd.



Thermo Fisher Scientific Co., Ltd.

