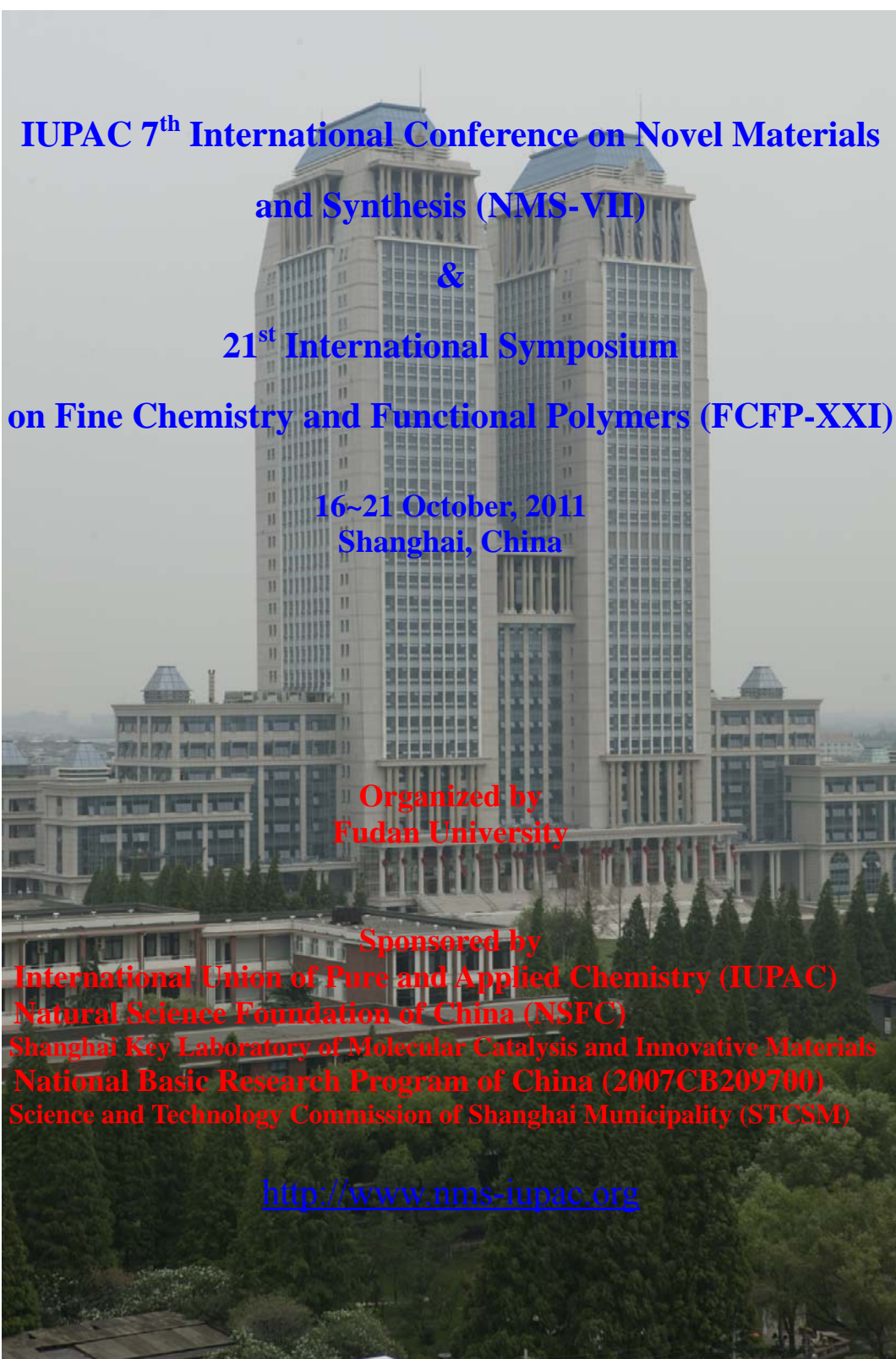


Third Circular

(Primary program and other important information)



**IUPAC 7th International Conference on Novel Materials
and Synthesis (NMS-VII)
&
21st International Symposium
on Fine Chemistry and Functional Polymers (FCFP-XXI)**

**16~21 October, 2011
Shanghai, China**

**Organized by
Fudan University**

**Sponsored by
International Union of Pure and Applied Chemistry (IUPAC)
Natural Science Foundation of China (NSFC)
Shanghai Key Laboratory of Molecular Catalysis and Innovative Materials
National Basic Research Program of China (2007CB209700)
Science and Technology Commission of Shanghai Municipality (STCSM)**

<http://www.nms-iupac.org>

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1. INVITATION

Fudan University is one of the most famous universities in China. It was established in 1905 and initially named as Fudan Public School. The name “Fudan” was given by the distinguished educator in modern Chinese history, Xiangbo MA, from the Confucian Classics --- “Itinerant as the twilight, sun glows and moon luminesces” --- means unremitting effort of Chinese intelligentsia. Its motto is “Broad scope, Perseverant will, Pertinent question and Profound thinking” (www.fudan.edu.cn/englishnew).

Innovation is an everlasting topic to improve the lives of human being since there are still a lot of unexpected disasters such as earthquake, tsunami, flood, draught and cyclone. Here we are going to jointly hold IUPAC 7th International Conference on Novel Materials and Synthesis (NMS-VII) & 21st International Symposium on Fine Chemistry and Functional Polymers (FCFP-XXI) in Shanghai, China on 16th~21st October, 2011 since Shanghai is a dynamic and charming industrial city full of oriental wonders and magics along the western coast of Pacific Ocean.

The site of the Conference, Training Center in School of Journalism (★★★★), is located at the main campus of Fudan University.

A post-conference (21st (22nd)– 23rd October, 2011) will also be arranged for discussion on new development and cooperative research in the fields of fine chemistry, biomaterials, functional polymers, nano materials, energy materials, ceramic materials, metallic materials, other nano materials and application of neutron scattering, and visit to some famous institutes and places of historic interest and scenic beauty near Shanghai.

In Octobers 2005, 2007 and 2009 we successfully organized IUPAC NMS-I & FCFP-XV, IUPAC NMS-III & FCFP-XVII, and IUPAC NMS-V & FCFP-XIX, separately. In 2009, more than 320 foreign scientists from over 30 countries enjoyed the beauty of Shanghai.

This time a lot of famous scientists strongly support our organization of this serial Conference such as Prof. Klaus Muellen (former President of German Chemical Society), Prof. Yury Shchipunov (Member of Russian Academy of Sciences), Prof. Dr. S. Penczek (Member of Polish Academy of Sciences), Prof. Dr. Hiroyuki Nishide (former Dean of Japan Society of Polymers, Waseda University, Japan), Prof. Jean-Pol Dodelet (Canada), Prof. Huijun Zhao (Griffith University, Member of Australia Academy of Engineering), Prof. Gang Wei (Australia), Prof. Hsin-Chiao Daniel Ouyang (USA), Dr. Shinji Inagaki (Japan), and Prof. Pengyuan Yang (China) and so on, and they will deliver very interesting plenary lectures on their excellent achievements.

This year it is the International Year of Chemistry of IUPAC. Above 400 scientists from more than 40 countries and areas from Asia, Europe, American, Africa and Atlantic will be present, including the white, the black and the yellow.

On behalf of the Organization Committee of the Conference, it is our great pleasure to invite you to attend this Conference IUPAC NMS-VII & FCFP-XXI and Post-Conference in October 2011 to renew friendship and to facilitate discussions on fine chemistry, biomaterials, functional polymers, energy storage and conversion materials, nano materials, ceramic materials, metallic materials, other novel materials and application of neutron scattering. We will provide a small gift to express our gratitude for your active support and participation, and the costs for banquets, dinners and social programs during the Conference will be free for you if you have registered.

If you have any other questions, please do not hesitate to contact us.

Looking forward to your active participation to add a lot of colors to the success of this Conference and all the best !

Prof. Dr. Yuping Wu, Prof. Dr. Shiyong Guan, Prof. Guoxiu Wang
Cochairman, IUPAC NMS-VII & FCFP-XXI

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T. Uryu, Japan

X.L. Wang, Australia

D.H. Yu, Australia

L. Zhang, Canada

P. Zugenmaier, Germany

2. SITE AND PERIOD

Training Center, School of Journalism, Fudan University (★★★★) (復旦大學新聞學院培訓中心)
 No. 400, Guoding Road, Shanghai 200433, China
 Tel: +86-21-5558 9518
 Fax: +86-21-6510 4010
 17~ 21 October, 2011

The Conference will be held at Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心), which is located in Shanghai (上海) as described by the right rough map. The distance from the airport to the Training Center is about 50 km and from Shanghai Railway Station 10 km. If by taxi, it will cost about 160 Yuan and 35 Yuan, respectively.

PLEASE ASK THE DRIVER FOR A RECEIPT



3. HOTELS & CHECK-IN

(a) Type A, B and C: The departure time is 20th October, 2011 or before that day is:
 Training Center, School of Journalism, Fudan University (the detailed address is as the above)

(b) Type A, B and C: The departure time is 21st October, 2011 or after that day is:
 Grand Mercure Baolong Hotel Shanghai (寶隆賓館)
 No. 180 Yixian Road (逸仙路 180 号), Shanghai 200434, China
 Tel: (86) 21 3505 9666
 Fax: (86) 21 6536 9900

(c) Type D and E:
 Zhengda Hotel, Fudan University (復旦大學正大賓館)
 No. 220 Handan Road (邯鄲路 220 号), Shanghai 200433, China
 Tel: (86) 21 6511 5121

(d) Check-in:
 Please pay the fee in advance at the registration desk or the reception desk, and then the staff will guide you to check in.

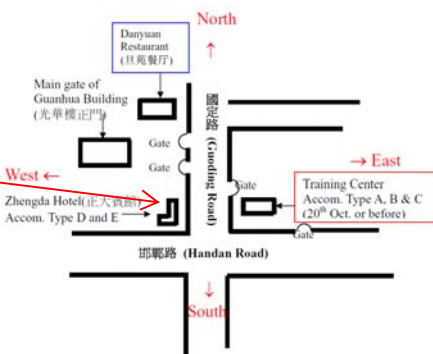
(e) Shuttle buses

During the Conference, in the morning (7:30-8:10 am) there are free shuttle buses from the Baolong Hotel to the Conference site.

After dinner or social programs, the free shuttle buses will return to Baolong Hotel.

4. REGISTRATION SITE

Lobby of Training Center, School of Journalism, Fudan University.
 Time: 15 October, 8:00 am to 18:00 pm,
 16 October, 8:00 am to 22:00 pm



17 October, 8:00 am to 22:00 pm

18 October, 8:00 am to 22:00 pm

19 October, 8:00 am to 22:00 pm

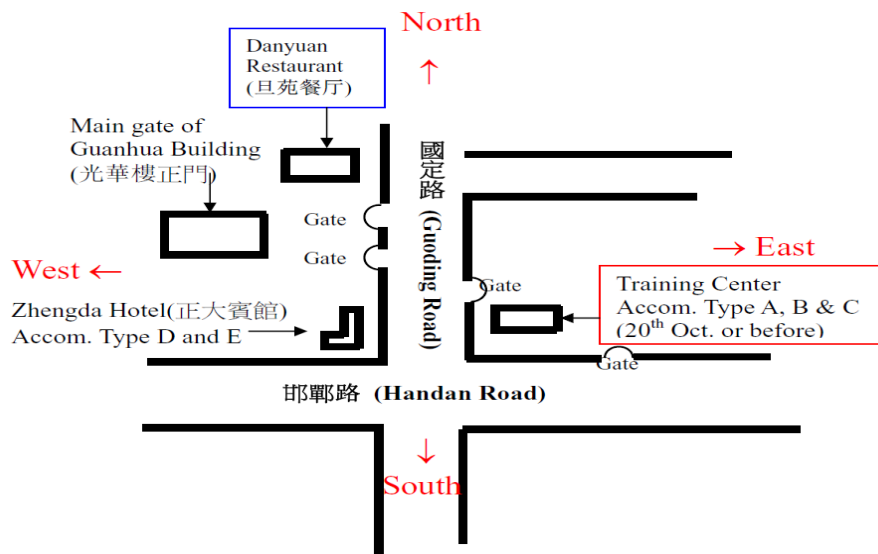
20 October, 8:00 am to 14:00 pm

5. DINING PLACES

(a) Breakfast: Please take at each hotel.

(b) Lunch, Dinner & Banquet: as follows

| Date | Lunch | Dinner / Banquet |
|------------------|--|--|
| 16 October, 2011 | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) | 3 rd Floor, Danyuan (Professor) Restaurant (旦苑或教授餐廳) |
| 17 October, 2011 | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) | 3 rd Floor, Danyuan (Professor) Restaurant (旦苑或教授餐廳) |
| 18 October, 2011 | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) | 3 rd Floor, Danyuan (Professor) Restaurant (旦苑或教授餐廳) |
| 19 October, 2011 | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) |
| 20 October, 2011 | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) | 2 nd Floor of Training Center, School of Journalism, Fudan University (復旦大學新聞學院培訓中心 2 樓餐廳) |
| 21 October, 2011 | Day tour site (Outside) | 3 rd Floor, Danyuan (Professor) Restaurant (旦苑或教授餐廳) |



6. METHODS OF PRESENTATION

Plenary lectures (45 each), Keynote lectures (30 min each), invited lectures (20 min each), oral presentation (10 min each) and poster sessions.

(1) As to speakers of plenary lectures, invited lectures and oral presentation, **it is strongly recommended to use multimedia projector in the form of "ppt"** since overhead projector will not be available for this conference.

(2) In the case of poster presentation, the poster size will be 100 × 100 cm and the putting-up boards will be available in lecture halls in the morning of 19th October, 2011.

7. SENDING .PPT FILE

Since the conference schedule is very heavy, the speakers are cordially invited to send your ppt files to the general secretary prior to the conference if you do not bring your portable computer, USB or CD-ROM with you. This will avoid possible problems associated with different language version of operation systems.

If you could not send the ppt file prior to the conference, please copy it to the computer in the corresponding conference rooms prior to the beginning of the conference session and have a check of your ppt file.

8. PAPER PUBLICATION

(1) Some invited speakers can submit their talk to the journal, *Pure and Applied Chemistry*, for a special issue. If interested, please contact the Organization Committee prior to 1st October, 2009. The Organization Committee will submit the list of possible contributors to the editor-in-chief and he will decide it and send the contributors the required information. After submission, the manuscript will be reviewed by normal process. Without nomination or invitation, one could not submit manuscript to this journal.

The invitees are kindly requested to submit your manuscripts before the deadline, 20th November, 2011, i.e. within one month after the conference.

(2) All of the lectures and contributions concerning functional polymers are recommended to submit to the journal *Journal of E-Polymers*.

Please contact the cochairman, Prof. Yuping Wu, in advance so that a good arrangement can be made.

9. LANGUAGE

The official language of the Conferences is English.

10. TRAVELING INFORMATION

Shanghai is one of the most active cities and the largest center of economy in China. It has witnessed the development of the modern history of economy, finance, architecture, culture, science and technology in China. Your visit in Shanghai will provide you a good chance to look and enjoy the life in a Chinese city with mixed traditional and modern style. More information can be searched from the web site of Shanghai as <http://www.sh.gov.cn>.

You can get there directly by flight or transferring from Beijing, Hongkong or Guangzhou International Airport and other big cities in China.

In the case of Japanese, whose one stay is not above 15 days, entry visa is not needed. Please be sure to carry your passport with you. Japanese participants can contact with following travel agency for their travel from Japan to China.

Leadman Universe Corporation
3-1-2 Tsukamoto Building, Kamimeguro, Meguro-ku,
Tokyo 153-0051, JAPAN
TEL: 03-3793-7545 FAX: 03-3793-7500
E-mail: leadman@hkg.odn.ne.jp

11. PICK-UP (free on 16 October, 2011)

(1) **Airports:** The secretarial staff carrying "**IUPAC NMS-VII & FCFP-XXI**" sign will meet you at the exits for international flights of the Shanghai Pudong International Airport and Shanghai Hongqian International Airport on 16 October, 2011 to guide you to the registration site.

Please inform your flights number, arrival time and the airport since Shanghai has two airports to the general secretary of the Conferences Ms. Shu Tian or cochairman, Prof. Yu-Ping Wu, by fax or email.

(b) Railway stations: There is no pick-up. We are very sorry to cause you inconvenience.

(i) On 16th October, 2011: You can take a taxi or bus to Grand Mercure Baolong Hotel Shanghai (寶隆賓館) (No. 180 Yixian Road: 逸仙路 180 号). You can also exchange and finally take subway (Line 3) and get off at Jiangwan Town (江灣站), and then walk back along the Yixian Road for about 200 meters to the Grand Mercure Baolong Hotel.

(ii) On 17th October, 2011 or after, you can take a taxi or bus (No. 942). The bus stop is at the north exit of the Shanghai Railway Station, and please get off at the Fudan University (復旦大學站). If you get off at Shanghai South Railway Station (上海南站), you can take a taxi or by subway (Line 3). By subway, please get off at Dabaishu (大柏樹 站), and transfer Bus (No. 133) to Fudan University (復旦大學 站).

If you get off at Shanghai Hongqiao Railway Station (上海虹橋 站), you can take a taxi or by subway (Line 2). Please exchange to Subway (Line 3) at Zhongshan Park (中山公園), then you can get off at Dabaishu (大柏樹 站), and transfer Bus (No. 133) to Fudan University (復旦大學 站).

If you arrive in Shanghai before 16th October, 2011, the secretarial staff will also meet and guide you according to your request.

If you miss our service, please take a taxi to the registration site by yourself. You may show the rough map (mentioned in the above **3. Venue**) to the taxi driver directly to the Registration Site.

12. LOCATION FOR CONFERENCE ROOMS

| | |
|--------------------------|---|
| Conference Room A1..... | Conference Room 202, 2 nd Floor of Guanghai East Building (復旦大學光華樓東輔樓 202 會議室) |
| Conference Room A2 | 4 th Floor of Training Center, Lecture Hall |
| Conference Room 1 | 4 th Floor of Training Center |
| Conference Room 2 | 4 th Floor of Training Center |
| Conference Room 3 | 4 th Floor of Training Center |
| Conference Room 5 | 4 th Floor of Training Center |
| Conference Room 6 | 4 th Floor of Training Center |
| Conference Room 7 | 4 th Floor of Training Center |

13. REGISTRATION AND CANCELLATION

In case of those who have not yet paid, please pay by cash on the registration desk. However, the secretary should be notified in advance. **Or else, 10% overcharge will be included. On registration, only cash is accepted, personal checks, traveler's checks and credit cards are not acceptable.** We feel very sorry if there is any inconvenience for you. Please complete the necessary information on the Conference Registration Form and Accommodation Form *via* the website of the Conference (www.nms-iupac.org). In emergency, please send them to the Cochairman, Prof. Yuping Wu by fax, mail or email.

In the event of cancellation of registration before 18th September, 2011, 80% of the registration fee will be refunded due to the refunding cost. After 19th September, 2011, the registration fee will not be refunded.

14. ACCOMMODATION & PAYMENT

All hotel rooms are reserved and arranged by the Organizing Committee so that a discounted price can be ensured. In order to secure a room, please fill-in clearly your dates of arrival and departure from the hotel *via* the website of the Conference (www.nms-iupac.org) by 5th October, 2011 since October is the busiest and wonderful season of Shanghai. In emergency, you can send the information to us by email, mail or fax.

The payment account is the same as that for the registration, and you can pay the registration and accommodation fees together. If you want to cancel, please tell the organization committee at least

7 days before the Conference. Or else, the charge at least for one night will be paid.

15. PASSPORT AND VISA

All foreign participants should possess valid passports and visas. In addition, most visitors from abroad have to apply for visas. **If you need the Official Invitation Letter with seal to apply for an entry visa, please fill in the required information while login the website of the Conference (www.nms-iupac.org)** and those items marked with asterisk is necessary. Or else we feel very sorry that we could not help you to get the document in time. In emergency, please send it to Prof. Yu-Ping Wu. He will fax and send the required documents to you in due time. Please apply for an entry visa at the nearest Chinese Embassy or Consulate.

If you do not want to disclose your personal data or you could not send us the registration form in time, please apply Tourist Entry Visa since Shanghai is also a good place for sightseeing.

16. TAXI AND OTHER SPECIAL SERVICES

Since most taxi drivers can not speak English, please show the map and they will take you to the the Training Center. Cable internet services are included in the discounted prices for hotel. Photocopy, post office, phone and fax services in the hotel are also available. The cost for such special services will be paid by yourself.

17. CLIMATE

The weather in Shanghai is its best during the Conference and the temperature ranges between 15°C-30 °C. An umbrella may be needed for you because it rains occasionally.

18. CONFERENCE SCHEDULE & SESSIONS ARRANGEMENT

| Date | Time | Activities | Places |
|-----------------------|--|--|--|
| 15 October | 8:00-18:00 | Pick up / Registration | Airports / Lobby of Training Center |
| 16 October | 8:00-23:00 | Pick up / Registration | Airports / Lobby of Training Center |
| 17 October (Mon.) | 7:00-8:00 | Breakfast / Registration | In each hotel / Lobby of Training Center |
| | 7:30-8:10 | Shuttle bus to Conference site | Lobby of Baolong Hotel |
| | 8:30-8:55 | Opening Ceremony | Conference Room A1 |
| | 8:55-9:40 | Plenary lecture | Conference Room A1 |
| | 9:40-9:55 | Taking Collective Photos | On the steps in front of Guanhua Building: 光華樓前臺階 |
| | 9:55-10:10 | Coffee Break | |
| | 10:10-12:25 | Plenary lectures | Conference Room A1 |
| | 12:25-13:30 | Lunch | 2 nd Floor of Training Center |
| | 13:30-15:30 | KL, IL & OP | Conference Rooms 1,2,3,5,6 |
| | 15:30-15:50 | Coffee Break | |
| | 15:50-17:30 | KL, IL & OP | Conference Rooms 1,2,3,5,6 |
| 17:45-18:40 | Dinner | 3 rd Floor, Danyuan (Professor) Restaurant | |
| 18:30-18:45 | Boarding buses | At the gate of Danyuan (Professor) Restaurant | |
| 18:45-21:00 | Departing and Touring Pujiang River | | |
| 18 October (Tues.) | 7:00-8:30 | Breakfast / Registration | In each hotel / Lobby of Training Center |
| | 7:30-8:10 | Shuttle bus to Conference site | Lobby of Baolong Hotel |
| | 8:30-10:30 | KL, IL & OP | Conference Rooms 1,2,3,5,6,7 |
| | 10:30-10:50 | Coffee Break | |
| | 10:50-12:30 | KL, IL & OP | Conference Rooms 1,2,3,5,6,7 |
| | 12:30-13:30 | Lunch | 2 nd Floor of Training Center |
| | 13:30-15:30 | KL, IL & OP | Conference Rooms 1,2,3,5,6,7 |
| | 15:30-15:50 | Coffee Break | |
| | 15:50-17:40 | KL, IL & OP | Conference Rooms 1,2,3,5,6,7 |
| | 17:30-18:30 | Dinner | 3 rd Floor, Danyuan (Professor) Restaurant |
| 18:30-18:45 | Boarding buses | At the gate of Danyuan (Professor) Restaurant | |
| 18:45-21:00 | Departing and Watching Acrobat Performance | | |
| 19 October (Wedn.) | 7:00-8:30 | Breakfast / Registration | In each hotel / Lobby of Training Center |
| | 7:30-8:10 | Shuttle bus to Conference site | Lobby of Baolong Hotel |
| | 8:00-8:30 | Putting up posters | Conference Room A2 |
| | 8:30-10:30 | KL, IL & OP | Conference Rooms 1,2,3,5,6 |
| | 10:30-12:30 | Coffee Break & Poster Presentation | Conference Room A2 |
| | 12:30-13:30 | Lunch | 2 nd Floor of Training Center |
| | 13:30-15:45 | Plenary lectures | Conference Room A2 |
| | 15:45-16:00 | Coffee Break | |
| | 16:00-18:15 | Plenary lectures | Conference Room A2 |
| 18:20-19:30 | Dinner | 2 nd Floor of Training Center | |

| | | | |
|------------------------|-----------------|---|---|
| | Free activities | | |
| 20 October (Thurs.) | 7:00-8:30 | Breakfast | In each hotel |
| | 7:30-8:10 | Shuttle bus to Conference site | Lobby of Baolong Hotel |
| | 8:30-10:20 | KL, IL & OP | Conference Rooms 1,2,3,5,6 |
| | 10:20-10:40 | Coffee Break | |
| | 10:40-12:20 | KL, IL & OP | Conference Rooms 1,2,5,6 |
| | 12:30-13:30 | Lunch | 2 nd Floor of Training Center |
| | 13:30-15:20 | KL, IL & OP | Conference Rooms 2,3,6 |
| | 15:20-15:40 | Coffee Break | |
| | 15:40-17:30 | KL, IL & OP | Conference Rooms 2,3,6 |
| | 18:30-21:00 | Awarding & Banquet | 2 nd Floor of Training Center |
| 21 October (Fri.) | 7:00-8:00 | Breakfast | In each hotel |
| | 8:00-13:00 | Boarding bus City Excursion | At the Lobby of Baolong Hotel |
| | 7:30 | Boarding bus at the Lobby of Baolong Hotel | |
| | 7:45-18:00 | Post-Conference (Route 2) | |
| | 13:00-13:30 | Lunch | Shanghai |
| | 13:30-18:00 | City Excursion | Shanghai |
| | 18:30-20:00 | Dinner | 3 rd Floor, Danyuan (Professor) Restaurant |
| 22 October (Satur.) | 7:30 | Boarding bus at the Lobby of Baolong Hotel (Route 1) | |
| | 7:45-19:00 | Post-Confereneec (Route 1 & Route 2) | |
| 23 October (Sun.) | 7:30-18:30 | Post-Confereneec (Route 1 & Route 2) | |
| | 18:30-19:30 | Dining at 3 rd Floor, Danyuan (Professor) Restaurant for the participants of Post-Conference | |
| 24 October (Mon.) | End | | |

Sessions Arrangement

| Session | Topic | Conference Room | Time |
|------------|---|-----------------|----------------------|
| Session 01 | Advanced Materials Control and Applications | A1 | 8:55-9:40, 17 Oct. |
| Session 02 | Advanced Materials and their Findings | A1 | 10:10-12:25, 17 Oct. |
| Session 03 | Advanced Nanomaterials | 1 | 13:30-15:30, 17 Oct. |
| Session 04 | Advanced Nanomaterials | 1 | 15:50-17:30, 17 Oct. |
| Session 05 | Advanced Novel Polymers | 2 | 13:30-15:30, 17 Oct. |
| Session 06 | Advanced Functional Polymers | 2 | 15:50-17:30, 17 Oct. |
| Session 07 | Advance Batteries Materials | 3 | 13:30-15:20, 17 Oct. |
| Session 08 | Advanced Energy Storage and Conversion | 3 | 15:40-17:30, 17 Oct. |
| Session 09 | Advanced Functional Ceramics | 5 | 13:30-15:20, 17 Oct. |
| Session 10 | Novel Photo-, Electro-, and Thermal Materials | 5 | 15:40-17:30, 17 Oct. |
| Session 11 | Advanced Organic Materials | 6 | 13:30-15:30, 17 Oct. |
| Session 12 | Advanced Organic Materials | 6 | 15:50-17:30, 17 Oct. |
| Session 13 | Advanced Nanomaterials | 1 | 8:30-10:30, 18 Oct. |
| Session 14 | Advanced Nanomaterials | 1 | 10:50-12:30, 18 Oct. |
| Session 15 | Advanced Nanomaterials | 1 | 13:30-15:30, 18 Oct. |
| Session 16 | Functional Nanomaterials | 1 | 15:50-17:40, 18 Oct. |

| | | | |
|------------|---|----|----------------------|
| Session 17 | Advanced Polymers | 2 | 8:30-10:30, 18 Oct. |
| Session 18 | Advanced Polymers | 2 | 10:50-12:30, 18 Oct. |
| Session 19 | Advanced Polymers | 2 | 13:30-15:30, 18 Oct. |
| Session 20 | Advanced Polymers | 2 | 15:50-17:30, 18 Oct. |
| Session 21 | Advanced Energy Conversion Materials | 3 | 8:30-10:30, 18 Oct. |
| Session 22 | Advanced Energy Storage Materials | 3 | 10:50-12:40, 18 Oct. |
| Session 23 | Advanced Energy Materials | 3 | 13:30-15:30, 18 Oct. |
| Session 24 | Advanced Energy Materials | 3 | 15:50-17:30, 18 Oct. |
| Session 25 | Advanced Functional Oxides and other Materials | 5 | 8:30-10:30, 18 Oct. |
| Session 26 | Advanced Functional Oxides and other Materials | 5 | 10:50-12:30, 18 Oct. |
| Session 27 | Advanced Functional Oxides and other Materials | 5 | 13:30-15:30, 18 Oct. |
| Session 28 | Advanced Functional Oxides and other Materials | 5 | 15:50-17:30, 18 Oct. |
| Session 29 | Advanced Biomaterials | 6 | 8:30-10:30, 18 Oct. |
| Session 30 | Advanced Biomaterials | 6 | 10:50-12:20, 18 Oct. |
| Session 31 | Advanced Biomaterials | 6 | 13:30-15:30, 18 Oct. |
| Session 32 | Advanced Biomaterials | 6 | 15:50-17:30, 18 Oct. |
| Session 33 | Advanced Functional Polymers | 7 | 8:30-10:30, 18 Oct. |
| Session 34 | Advanced Functional Polymers | 7 | 10:50-12:30, 18 Oct. |
| Session 35 | Advanced Functional Polymers | 7 | 13:30-15:30, 18 Oct. |
| Session 36 | Advanced Functional Polymers | 7 | 15:50-17:20, 18 Oct. |
| Session 37 | Advanced Semiconductors | 1 | 8:30-10:30, 19 Oct. |
| Session 38 | Advanced Functional Polymers | 2 | 8:30-10:30, 19 Oct. |
| Session 39 | Advanced Photomaterials | 3 | 8:30-10:30, 19 Oct. |
| Session 40 | Advanced Neutron-Scattering Technologies and Applications | 5 | 8:30-10:30, 19 Oct. |
| Session 41 | Advanced Organic- and bio-Materials | 6 | 8:30-10:30, 19 Oct. |
| Session 42 | Advanced Energy Storage and Conversion Materials | A2 | 13:30-15:45, 19 Oct. |
| Session 43 | Advanced Biomaterials and Applications | A2 | 16:00-18:15, 19 Oct. |
| Session 44 | Advanced Nanomaterials and Measurement | 1 | 8:30-10:20, 20 Oct. |
| Session 45 | Advanced Functional Nanomaterials | 1 | 10:40-12:20, 20 Oct. |
| Session 46 | Advanced Polymers and Applications | 2 | 8:30-10:30, 20 Oct. |
| Session 47 | Advanced Polymers and Applications | 2 | 10:50-12:30, 20 Oct. |
| Session 48 | Advanced Polymers and Applications | 2 | 13:30-15:30, 20 Oct. |
| Session 49 | Advanced Polymers and Applications | 2 | 13:50-17:40, 20 Oct. |
| Session 50 | Advanced Energy Materials | 3 | 8:30-10:30, 20 Oct. |
| Session 51 | Advanced Energy Materials | 3 | 10:50-12:30, 20 Oct. |
| Session 52 | Advanced Nanomaterials and Applications | 3 | 13:30-15:40, 20 Oct. |
| Session 53 | Advanced Nanomaterials and Applications | 3 | 16:00-17:40, 20 Oct. |

| | | | |
|-----------------------|---|-----------|-----------------------------|
| Session 54 | Advanced Neutron-Scattering Technologies and Applications | 5 | 8:30-10:30, 20 Oct. |
| Session 55 | Advanced Materials and Applications | 6 | 8:30-10:30, 20 Oct. |
| Session 56 | Advanced Biomaterials and Applications | 6 | 10:50-12:30, 20 Oct. |
| Session 57 | Advanced Bio- and other Functional Materials | 6 | 13:30-15:40, 20 Oct. |
| Session 58 | Advanced Biomaterials and Chiral Materials | 6 | 16:00-17:30, 20 Oct. |
| Poster Session | | A2 | 10:30-12:30, 19 Oct. |

19. SCIENTIFIC PROGRAM

(There will be some change for the actual program. Please note it upon registration.)

17th October, 2011

Conference Room A1

Opening Ceremony 8:30-8:55

Session 01 Advanced Materials Control and Applications

Chair: Prof. Yi Tang

| | Page No. |
|--|----------|
| PL 01 8:55-9:40..... | PL 1 |
| Anatase TiO ₂ with Highly Reactive Crystal Facets: Control Growth, Formation Mechanism and Applications | |
| Huijun Zhao | |

9:40-10:10 COLLECTIVE PHOTO TAKING (On the steps in front of Guanhua Building: 光華樓前臺階)
& COFFEE BREAK

Session 02 Advanced Materials and their Findings

Chairs: Prof. Heinz Berke

Prof. Ming Jiang

Prof. Kimihisa Yamamoto

| | Page No. |
|--|----------|
| PL 02 10:10-10:55 | PL 2 |
| Optical and Mechanical Properties of Colloidal Nanoparticles in Confinement | |
| Hsin-Chiao Daniel Ouyang | |
| PL 03 10:55-11:40 | PL 3 |
| Macromolecules, Assemblies, Particles – A Discovery Journey in Materials Synthesis | |
| Klaus Müllen | |
| PL 04 11:40-12:25 | PL 4 |
| Overview CSIRO Advanced Materials and Technologies | |
| Gang Wei | |

12:25-13:30 Lunch

17th October, 2011

Conference Room 1,

Session 03: Advanced Nanomaterials

Chairs: Hongjin Fan

Guillermo Gonzalez

| | Page No. |
|---|----------|
| KL 01 13:30-14:00..... | E 1 |
| Molecular 'Clip' As a Tool for 2d Self-Assembly on Surfaces: From Concept to 3d Janus Tectons | |
| <u>André-Jean Attias</u> | |
| KL 02 14:00-14:30..... | E 2 |
| Inorganically Filled Carbon Nanotubes: Synthesis, Properties and Prospects | |

Ujjal K Gautam

IL 01 14:30-14:50.....E13
Nanocomposite Strain Sensors Made from Various Carbon Nanofillers

Ning Hu

IL 02 14:50-15:10.....E14
SEM/TEM Studies of Some Core Particles

Wuzong Zhou

IL 03 15:10-15:30.....E15
Molecular Beam Epitaxy of InN and Its p-type Doping

Xinqiang Wang

COFFEE BREAK 15:30-15:50

Session 04: Advanced Nanomaterials

Chairs: Ujjal K. Gautam

Junqing Hu

KL 03 15:50-16:20.....E3
Tihierarchical Oxide Nanowires: Synthesis Strategy and Applications as Supercapacitor Electrodes

Hongjin Fan

IL 04 16:20-16:40.....E16
Tailored Three-Dimensional Assembly of Carbon Nanotubes and Graphene

Sang Ouk Kim

IL 05 16:40-17:00.....E17
Multifunctional Au-Fe₃O₄ Heterostructures for Magnetically Recyclable Catalytic Reaction

Ruey-An Doong

IL 06 17:00-17:20.....E18
Nanostructuring of Glass Micro/Nanowires

Ming Ding

OP 01 17:20-17:30.....E44
Worm-like Ag Nanowires by Electrodeposition from Lyotropic Reverse Hexagonal Liquid Crystalline Phase

Tingwei Cai

Conference Room 2

Session 05: Advanced Novel Polymers

Chairs: Laren M. Tolbert

P.G.L. Baker

KL 04 13:30-14:00.....C1
Improving Sustainable/Biodegradable Polymers

James Wang

KL 05 14:00-14:30.....C2
Assembly of Graphene-Based Two-Dimensional Nanosheets

Xinliang Feng

IL 07 14:30-14:50.....C14
Plywood structure on injection-molded polypropylene

Yamaguchi Masayuki

IL 08 14:50-15:10.....C15

Synthesis of Metallized Polyimide Films by Wet Chemical Process

Kensuke Akamatsu

IL 09 15:10-15:30.....C16

Organic/Inorganic Composite Particles by Controlled Radical Polymerization in Aqueous

Dispersed Media

Elodie Bourgeat-Lami

COFFEE BREAK 15:30-15:50

Session 06: Advanced Functional Polymers

Chairs: P.H. Aubert

Wenhua Sun

Page No.

KL 06 15:50-16:20.....C3

Protein-Based Nanotubes for Biomolecular Traps

Teruyuki Komatsu

IL 10 16:20-16:40.....C17

Lateral Interaction of Transition Metal Dimers Through Graphene – Order and Magnetic Moments

Hway-Chuan Kang

IL 11 16:40-17:00.....C18

Photochromic Based Materials for Photonic Applications

Jaroslav Mysliwicz

IL 12 17:00-17:20.....C19

New Amino Acid-Based Block Copolymers, Stars, and Hybrids

Hideharu Mori

IL 13 17:20-17:40.....C20

Studies on the Effects of High-Energy Electron Beam Irradiation on the Mechanical Properties of Magnesium Hydroxide Filled HDPE/Mg(OH)₂/TCA-27 CompositesNabil Alkadasi

Conference Room 3

Session 07: Advance Batteries Materials

Chairs: Jaephil Cho

Bin Li

Page No.

KL 07 13:30-14:00.....D1

Tailoring Oxide Nanostructures and Heterostructures for Electrochromics and Electrochemical Energy Storage

Pooi See Lee

IL 14 14:00-14:20.....D17

The Discovery of a New Class of Cathode Materials for Lithium Ion Batteries

Hailong Chen

IL 15 14:20-14:40.....D18

Combined First-Principles and Experimental Study on the Mn based Olivine Cathode for Lithium Rechargeable Batteries

Kisuk Kang

IL 16 14:40-15:00.....D19

Lithium Ionics in Complex Hydrides: Review and Prospects

Shin-ichi Orimo

IL 17 15:00-15:20.....D20
 LiV₃O₈ Cathode Material Synthesized via Microwave Assistant Methods for Lithium Ion Batteries
Chuan Wu

COFFEE BREAK 15:20-15:40

Session 08: Advanced Energy Storage and Conversion

Chairs: Pooi See Lee
 Angelika Basch

| | Page No. |
|---|----------|
| KL 08 15:40-16:10..... | D2 |
| Catalyst Supports for Pem Fuel Cells: From Carbon Black to Carbon Nanotube and Graphene | |
| <u>Siyu Ye</u> | |
| KL 09 16:10-16:40..... | D3 |
| Quantum Dots Sensitized Zinc Oxide Nanowires Arrays Photoelectrodes for Water Splitting | |
| <u>Ru-Shi Liu</u> | |
| KL 10 16:40-17:10..... | D4 |
| Direct Preparation of High-Purity Primary Lithium by Eletrochemical Method | |
| <u>Bin Li</u> | |
| IL 18 17:10-17:30..... | D21 |
| On-Borad Hydrogen Production from Hydrolysis of Al Alloys | |
| <u>HyukSang Kwon</u> | |

Conference Room 5

Session 09: Advanced Functional Ceramics

Chairs: Nobuhiro Ohta
 S.K. Chen

| | Page No. |
|---|----------|
| KL 11 13:30-14:00..... | F1 |
| Resistive Switching Effects in Oxide Sandwiched Structures | |
| <u>Runwei Li</u> | |
| IL 19 14:00-14:20..... | F2 |
| Controlling and Visualizing the Self-Organized Aggregation of Transition Metals in Nitrides | |
| <u>Alberta Bonanni</u> | |
| IL 20 14:20-14:40..... | F3 |
| Semiconductor/Ferromagnetic Nanocomposites – Theoretical Modelling and Applications | |
| <u>Tomasz Dietl</u> | |
| IL 21 14:40-15:00..... | F4 |
| Solution-Source Vapor-Phase Synthesis of Oxide and Organic Thin Films | |
| <u>Shizuo Fujita</u> | |
| IL 22 15:00-15:20..... | F5 |
| Development of Highly Transparent Electrode Materials for Organic Light Emitting Diodes | |
| <u>Jong-Lam Lee</u> | |

COFFEE BREAK 15:20-15:40

Session 10: Novel Photo-, Electro-, and Thermal Materials

Chairs: Runwei Li
 Tomasz Dietl

Page No.

| | | | |
|--|-------------|-------|-----|
| IL 23 | 15:40-16:00 | ..... | F6 |
| Submicron-Sized Phosphors Based on Rare Earth Oxycarbonates | | | |
| <u>Toshiyuki Masui</u> | | | |
| IL 24 | 16:00-16:20 | ..... | F7 |
| Unprecedented Optoelectronic Function in Organic Conductor | | | |
| <u>Nobuhiro Ohta</u> | | | |
| IL 25 | 16:20-16:40 | ..... | F8 |
| Solution-processable Organic Single Crystal for High Performance Organic Transistor | | | |
| <u>Kazuhito Tsukagoshi</u> | | | |
| IL 26 | 16:40-17:00 | ..... | F9 |
| Carbon doping in MgB ₂ reacted with Si and C containing additives | | | |
| <u>S.K. Chen</u> | | | |
| IL 27 | 17:00-17:20 | ..... | F10 |
| Formation of InAs Nanowire by Solid Source Reaction: A promising material as the high mobility channel for nanoelectronics | | | |
| <u>Yu-Lun Chueh</u> | | | |
| OP 02 | 17:20-17:30 | ..... | H12 |
| Heat Capacity Measurements of (BPDT-TTF) ₂ ICl ₂ | | | |
| <u>Guoyang Guan</u> | | | |

Conference Room 6,

Session 11: Advanced Organic Materials

Chairs: Toyoshi Shimada

Sung Hwa Jhung

| | | | |
|---|-------------|-------|----------|
| | | | Page No. |
| KL 12 | 13:30-14:00 | ..... | A1 |
| Organometallics for Molecular Electronics | | | |
| <u>Heinz Berke</u> | | | |
| KL 13 | 14:00-14:30 | ..... | A2 |
| Organometallic Macrocycles and Cages | | | |
| <u>Guoxin Jin</u> | | | |
| IL 28 | 14:30-14:50 | ..... | A6 |
| Unique Reactivity of Gold/Palladium Bimetallic Nanoclusters Toward the Suzuki-Miyaura Coupling Reaction | | | |
| <u>Hidehiro Sakurai</u> | | | |
| IL 29 | 14:50-15:10 | ..... | A7 |
| Controllable Synthesis of Tantalum Oxynitride and Nitride Nanoparticles for Oxidation Catalysis | | | |
| <u>Qingsheng Gao</u> | | | |
| IL 30 | 15:10-15:30 | ..... | A8 |
| Role of Nano-sized Oxide in Catalysis on Zeolite Nano-surface | | | |
| <u>Sachio Asaoka</u> | | | |

COFFEE BREAK 15:30-15:50

Session 12: Advanced Organic Materials

Chairs: Guoxin Jin

Andrzej W. Trochimeczuk

Page No.

| | | | |
|--|-------------|-------|-----|
| KL 14 | 15:50-16:20 | ..... | A3 |
| Preparation of Functional Allylsilanes Acting as Sol-Gel Precursors and Their Applications | | | |
| <u>Toyoshi Shimada</u> | | | |
| IL 31 | 16:20-16:40 | ..... | A9 |
| Molecular Design of Macrocyclic Polyaniline Analogs Based on Organometallic C-N Bond Formation | | | |
| <u>Takaki Kanbara</u> | | | |
| IL 32 | 16:40-17:00 | ..... | A10 |
| Metal-Free, One-Step, and Green Synthesis of (Z)-Alk-3-Enoic Acids in Superheated Fluids | | | |
| <u>Kazuya Kobiro</u> | | | |
| IL 33 | 17:00-17:20 | ..... | A11 |
| Chiral Metal Organic Framework: Synthesis, Structure and Properties | | | |
| <u>Fa-Nian Shi</u> | | | |
| IL 34 | 17:20-17:40 | ..... | A12 |
| Development of 2nd Generation Palladium-Catalyzed Cycloalkenylation and Application to Bioactive Natural Product Synthesis | | | |
| <u>Masahiro Toyota</u> | | | |

.....

18th October, 2011

Conference Room 1

Session 13: Advanced Nanomaterials

Chairs: Renzhi Ma

Michael M. Huang

| | Page No. |
|---|----------|
| KL 15 8:30-9:00..... | E4 |
| Synthesis of Sub-nano Metal Particle using Dendrimer Box | |
| <u>Kimihisa Yamamoto</u> | |
| KL 16 9:00-9:30..... | E5 |
| Rolled-up Inorganic Nanomembranes | |
| <u>Yongfeng Mei</u> | |
| IL 35 9:30-9:50..... | E19 |
| Large-area Polymer/Nanospheres Hybrid Monolayer at a Water-Air Interface: Fabrication and Application | |
| <u>Wen-Tau Juan</u> | |
| IL 36 9:50-10:10..... | E20 |
| Towards Molecular Electronics: Solution-Based Methods for Selective Deposition of Metals and Semiconductors | |
| <u>Amy Walker</u> | |
| IL 37 10:10-10:30..... | E21 |
| Design of Coaxial Nanocomposite Nanowires for Tuning Photophysical Properties | |
| <u>Jean Luc Duvail</u> | |
| COFFEE BREAK 10:30-10:50 | |

Session 14: Advanced Nanomaterials

Chairs: Jean Luc Duvail

Meiyong Liao

| | Page No. |
|--|----------|
| KL 17 10:50-11:20..... | E6 |
| Artificial Photosynthesis: Photocatalytic Reduction of CO ₂ into Hydrocarbon Fuel over Ultrathin Nanostructures | |
| <u>Yong Zhou</u> | |
| KL 18 11:20-11:50..... | E7 |
| Polymeric Carbon Nitrides: Semiconducting Properties and Emerging Application in Optoelectronic Conversion | |
| <u>Yuanjian Zhang</u> | |
| IL 38 11:50-12:10..... | E22 |
| Zinc Oxide Nanostructures: Synthesis and Optical Properties | |
| <u>Eglantina Benavente Espinosa</u> | |
| IL 39 12:10-12:30..... | E23 |
| Unique Properties of Functional Oxides Nanodot Structures Fabricated by AAO Template-Assisted PLD | |
| <u>Xingsen Gao</u> | |

12:30-13:30 Lunch

Session 15: Advanced Nanomaterials

Chairs: Yongfeng Mei

Leny Yulianti

| | Page No. |
|---|----------|
| KL 19 13:30-14:00..... | E8 |
| Synthesis of Redoxable Hydroxide Nanosheets | |
| <u>Renzhi Ma</u> | |
| KL 20 14:00-14:30..... | E9 |
| Low-Power Consumption Diamond Nanoelectromechanical Switch | |
| <u>Meiyong Liao</u> | |
| IL 40 14:30-14:50..... | E24 |
| Silicon Nanowires: Low Cost Fabrication, Engineering and Applied Researches | |
| <u>Zhifene Huang</u> | |
| IL 41 14:50-15:10..... | E25 |
| Vanadium Pentoxide Nanostructures | |
| <u>Guillermo Gonzalez</u> | |
| IL 42 15:10-15:30..... | E26 |
| Nanostructured Fluoro-Carbide (CF _x) Thin Films: Deposition Guided by Theoretical Predictions | |
| <u>G. K. Gueorguiev</u> | |

COFFEE BREAK 15:30-15:50

Session 16: Functional Nanomaterials

Chairs: Yong Zhou

Ivan Vakarelski

| | Page No. |
|--|----------|
| IL 43 15:50-16:10..... | E27 |
| Mesoporous Carbon Nitrides: Facile Synthesis and the Application as Hydrogen Adsorbent | |
| <u>Chang-Sik Ha</u> | |
| IL 44 16:10-16:30..... | E28 |
| High-Performance Nanofilm Photodetectors Fabricated by an Interfacial Self-Assembly Strategy | |
| <u>Linfeng Hu</u> | |
| IL 45 16:30-16:50..... | E29 |
| Shape-Controlled Synthesis of Nanocrystals and Their Facet-Dependent Properties | |
| <u>Michael H. Huang</u> | |
| IL 46 16:50-17:10..... | E30 |
| Design of Artificial Hollow Moth-Eye Structures Using Anodic Nanocones for High-Performance Optics and Solar Cells | |
| <u>Fu-Hsiang Ko</u> | |
| IL 47 17:10-17:30..... | E31 |
| A Novel Mold-Assisted Etching Process to Pre-Texture Al for Preparing Ordered Nanoporous Anodic Alumina | |
| <u>Ing-Chi Leu</u> | |
| OP 03 17:30-17:40..... | E44 |
| Synthesis, Properties and Application of MoO _{3-x} Nanowires and MoS ₂ Nanotubes | |

A. Mrzel

Conference Room 2

Session 17: Advanced Polymers

Chairs: Tadeusz Biela

Xinliang Feng

| | Page No. |
|--|----------|
| KL 21 8:30-9:00..... | C4 |
| Highly Efficient Preparation of Single Chain Janus Particles and their Self-Assembly | |
| <u>Daoyong Chen</u> | |
| KL 22 9:00-9:30..... | C5 |
| Electrically and Thermally Conductive Polyolefins via Graphene Incorporation | |
| <u>Jinyong Dong</u> | |
| IL 48 9:30-9:50..... | C21 |
| Morphology-Tunable Architectures Constructed by Supramolecular Assemblies of α -Diimine Compound: Fabrication and Application as Multifunctional Host Systems | |
| <u>Il Kim</u> | |
| IL 49 9:50-10:10..... | C22 |
| Polymerized C ₆₀ Thin Film: Its Preparations and Characterizations | |
| <u>Arenst Andreas Arie</u> | |
| IL 50 10:10-10:30..... | C23 |
| Electronically conducting Polymer on vertically aligned carbon nanotubes: Application to Nanocomposite Electrodes | |
| <u>P.H. Aubert</u> | |
| COFFEE BREAK 10:30-10:50 | |

Session 18: Advanced Polymers

Chairs: Daoyong Chen

Grigoriy A. Mun

| | Page No. |
|--|----------|
| KL 23 10:50-11:20..... | C6 |
| Soluble Precursor Synthesis of Graphene Nanoribbons | |
| <u>Laren M. Tolbert</u> | |
| IL 51 11:20-11:40..... | C24 |
| Kinetics and Isotherm Studies of Methylene Blue Adsorption onto Polyaniline Nanotubes Base/Silica Composite | |
| <u>Mohamad M. Ayad</u> | |
| IL 52 11:40-12:00..... | C25 |
| Modulation of the Interfacial Electrochemistry of Conductive Polymer Sensor Systems | |
| <u>P. G. L. Baker</u> | |
| IL 53 12:00-12:20..... | C26 |
| Unexpected Thermal Properties of Polylactide and Polylactide Stereocomplexes Based On Carbon Nanotube Initiators | |
| <u>Tadeusz Biela</u> | |
| OP 04 12:20-12:30..... | C74 |

Effects of Foaming condition and carbon-nanotube content on structure and mechanical properties of PP/EPDM microcellular foam

Hamed Azizi

12:30-13:30 Lunch

Session 19: Advanced Polymers

Chairs: Jinyong Dong

Il Kim

| | Page No. |
|---|----------|
| KL 24 13:30-14:00..... | C7 |
| Graphene: Surface Functionalization and Liquid Crystals | |
| <u>Chao Gao</u> | |
| KL 25 14:00-14:30..... | C8 |
| Bioplastic wonderland: from molecular-orientation to bio-photonics | |
| <u>T. Kaneko</u> | |
| IL 54 14:30-14:50..... | C27 |
| Design and synthesis of fluorescence sensing and light-harvesting molecular devices | |
| <u>Vladimir Bojinov</u> | |
| IL 55 14:50-15:10..... | C28 |
| Competitive Processes in Controlled Cationic Ring-Opening Polymerization of Oxetane: A Lotka-Volterra Model of Two Growing Chains in Predator-Prey Interactions | |
| <u>Hassen Bouchekif</u> | |
| IL 56 15:10-15:30..... | C29 |
| Graphene-Polyoxometalate Composites for Electronics and Photonics | |
| <u>Christoph Bubeck</u> | |

COFFEE BREAK 15:30-15:50

Session 20: Advanced Polymers

Chairs: T. Kaneko

Christoph Bubeck

| | Page No. |
|---|----------|
| IL 57 15:50-16:10..... | C30 |
| Copolymerization of carbon dioxide with aziridine Yielding Aliphatic Poly(Urethane Amine)S | |
| <u>Shaokui Cao</u> | |
| IL 58 16:10-16:30..... | C31 |
| Electrospun Fibers as Low Cost Fillers for Polymer-Based Nanocomposites | |
| <u>Valerio Causin</u> | |
| IL 59 16:30-16:50..... | C32 |
| Synthesis and Characterization of a Double Hydrophilic Polypeptide Graft Copolymer and its Application | |
| <u>Chuh-Yung Chen</u> | |
| IL 60 16:50-17:10..... | C33 |
| Mechanically-Rubbed and Thermally-Switched Liquid Crystal Alignments Based on Poly(N-Vinyl Carbazole) Films | |
| <u>Ko-Ting Cheng</u> | |
| IL 61 17:10-17:30..... | C34 |
| Electro-Adaptative Interpenetrating Polymer Networks | |

Claude Chevrot

Conference Room 3

Session 21: Advanced Energy Conversion Materials

Chairs: Bao-Lian Su

Katsushi Fujii

| | Page No. |
|--|----------|
| KL 26 8:30-9:00 | D5 |
| Fabrication of Ordered Silicon Nanostructures-Array and Solar Cell Application | |
| <u>Shu-Fen Hu</u> | |
| KL 27 9:00-9:30..... | D6 |
| Light Management Using Nanostructures in Photovoltaics | |
| <u>Jr-Hau He</u> | |
| IL 62 9:30-9:50..... | D22 |
| Problems Related to Carrier Transport in Organic Photovoltaics | |
| <u>Vaidotas Kazukauskas</u> | |
| IL 63 9:50-10:10..... | D23 |
| Self-assembly of Heterojunction by Mesogens for Organic Photovoltaics | |
| <u>Yiwang Chen</u> | |
| IL 64 10:10-10:30..... | D24 |
| Multiscale Molecular Simulation of the Nanoscale Morphologies of Bulk Heterojunction Polymer | |
| <u>Chun-Wei Pao</u> | |

COFFEE BREAK 10:30-10:50

Session 22: Advanced Energy Storage Materials

Chairs: Jr-Hau He

Vaidotas Kazukauskas

| | Page No. |
|--|----------|
| KL 28 10:50-11:20..... | D7 |
| Electrochemical Supercapacitor Materials: Challenges and Perspectives | |
| <u>Jiujun Zhang</u> | |
| KL 29 11:20-11:50..... | D8 |
| Graphene Based Nanomaterials for Supercapacitor | |
| <u>Zhongwei (John) Chen</u> | |
| IL 65 11:50-12:10..... | D41 |
| Photocatalysts, nanocatalysts, and chemical hydrides to produce hydrogen and to store solar energy | |
| <u>Nainesh Patel</u> | |
| IL66 12:10-12:30..... | D25 |
| Lignin Containing Composites and Nanomaterials for Electrochemical Sensing and Energy Storage | |
| <u>Grzegorz Milczarek</u> | |

12:30-13:30 Lunch

Session 23: Advanced Energy Materials

Chairs: Shimichi Orimo

Mei Cai

Page No.

| | | |
|---|------------------|-----|
| KL 30 | 13:30-14:00..... | D10 |
| Slow Photon Enhanced Photocatalytic Activity of Titania Inverse Opals: 3DOM and Films | | |
| <u>Bao-Lian Su</u> | | |
| KL 31 | 14:00-14:30..... | D11 |
| PEM Fuel Cells and Li-Air Batteries: Novel Catalysts and Supports | | |
| <u>Xueliang Sun</u> | | |
| IL 67 | 14:30-14:50..... | D26 |
| Effects of GaN Properties for Photoelectrochemical Water Splitting to Produce Hydrogen | | |
| <u>Katsushi Fujii</u> | | |
| IL 68 | 14:50-15:10..... | D27 |
| Radiation Grafted and Phosphorylated Membranes for High Temperature Polymer Electrolyte Fuel Cell | | |
| <u>Mohamed Nasef</u> | | |
| IL 69 | 15:10-15:30..... | D28 |
| Nanostructured Polymer Electrolytes for Fuel Cell Applications | | |
| <u>Moon Jeong Park</u> | | |

COFFEE BREAK 15:30-15:50

Session 24: Advanced Energy Materials

Chairs: Kisuk Kang

Mohamed Nasef

| | Page No. | |
|---|------------------|-----|
| IL 70 | 15:50-16:10..... | D29 |
| Study of Ion Transport Properties and Characterization of Solid Polymer Nanocomposite Materials | | |
| <u>Prem N Gupta</u> | | |
| IL 71 | 16:10-16:30..... | D30 |
| A Safe Nanocomposite Polymer Electrolyte Prepared by Electrospinning for Rechargeable Lithium Batteries | | |
| <u>Zhaohui Li</u> | | |
| IL 72 | 16:30-16:50..... | D31 |
| Ordered Polymer Electrolyte Membranes based on Polymer Brushes | | |
| <u>Haining Zhang</u> | | |
| IL 73 | 16:50-17:10..... | D32 |
| Composite Polymer Electrolytes Modified by Anion Receptors of Lewis Acid Properties for Application in Lithium Ion Batteries | | |
| <u>Ewa Zygadlo-Monikowska</u> | | |
| OP 05 | 17:10-17:20..... | D51 |
| 1,8-Naphthosultone: A new electrolyte additive with both good thermal stability and overcharge protection for lithium ion batteries | | |
| <u>Guangshuai Han</u> | | |
| OP 06 | 17:20-17:30..... | D52 |
| Single-ion Conducting Polymer Electrolytes for Lithium Ion Batteries Based on Polyvinyl Alcohol / Boric Acid / Lithium Oxalate | | |
| <u>Yusong Zhu</u> | | |

Conference Room 5

Session 25: Advanced Functional Oxides and other Materials

Chairs: Xuehong Lu

| | | | |
|---|-------------|-------|-----|
| KL 32 | 8:30-9:00 | ..... | H1 |
| On the Structure and the Symmetry Group of Spin Glass State and Other Seven Fundamental Magnetic Structures in Terms of the Fibre | | | |
| <u>Jerzy Warczewski</u> | | | |
| KL 33 | 9:00-9:30 | ..... | I1 |
| Gas Storage in Porous Materials | | | |
| <u>Craig Martin Brown</u> | | | |
| IL 74 | 9:30-9:50 | ..... | F11 |
| Resistance Switching in Heterostructures of Complex Oxides | | | |
| <u>Tao(Tom) WU</u> | | | |
| IL 75 | 9:50-10:10 | ..... | G1 |
| The Mechanical Properties of the Aluminum Alloy Produced by Continuous Casting Processes | | | |
| <u>Mitsuhiro Okayasu</u> | | | |
| IL 76 | 10:10-10:30 | ..... | H2 |
| Transparent High-Refractive-Index TiO ₂ -Epoxy Nanocomposites | | | |
| <u>Bo-Tau Liu</u> | | | |
| COFFEE BREAK 10:30-10:50 | | | |

Session 26: Advanced Functional Oxides and other Materials

Chairs: Jerzy Warczewski
Mitsuhiro Okayasu

| | | | |
|--|-------------|-------|-----|
| IL 77 | 10:50-11:10 | ..... | H3 |
| Hybrid Electrochromic Materials: Effects of Star-like Structure and Interfacial Covalent Bonds on Electrochemical Properties | | | |
| <u>Xuehong Lu</u> | | | |
| IL 78 | 11:10-11:30 | ..... | F12 |
| Temperature-Responsive VO ₂ Smart Windows: Solution Processing, Characterization and Properties | | | |
| <u>Yanfeng Gao</u> | | | |
| IL 79 | 11:30-11:50 | ..... | F13 |
| Photostability and Optical Properties of Modified Titanium Dioxide | | | |
| <u>Marta Glen</u> | | | |
| IL 80 | 11:50-12:10 | ..... | F14 |
| A Novel Low-Temperature-Fired Multifunctional Varistor-Magnetic Ferrite Materials | | | |
| <u>Hsing-I Hsiang</u> | | | |
| IL 81 | 12:10-12:30 | ..... | F15 |
| Spintronics with Multiferroic Oxide | | | |
| <u>Chenglong Jia</u> | | | |

12:30-13:30 Lunch

Session 27: Advanced Functional Oxides and other Materials

Chairs: Craig Martin Brown
Yanfeng Gao

| | Page No. |
|---|----------|
| IL 82 13:30-13:50..... | F16 |
| Pyroelectric, Piezoelectric and Photoeffects in Hydroxyapatite Thin Films on Silicon | |
| <u>Sidney Lang</u> | |
| IL 83 13:50-14:10..... | F17 |
| Intercalation Compounds in Ca-Montmorillonite : A Novel Sulfide Ion Potentiometric Sensor | |
| <u>Ladda Meesuk</u> | |
| IL 84 14:10-14:30..... | F18 |
| Advanced Superconducting Ceramics by Spark Plasma Sintering | |
| <u>Viorel Sandu</u> | |
| IL 85 14:30-14:50..... | F19 |
| Synthesis and Multifunctional Characterization of BiFeO ₃ Thin Films | |
| <u>Vilas Shelke</u> | |
| IL 86 14:50-15:10..... | F20 |
| Multiferroic Properties of (La, Mn) Co-Substituted BiFeO ₃ Thin Films | |
| <u>Danyang Wang</u> | |
| IL 87 15:10-15:30..... | G2 |
| Influence of Processing Parameters on the Properties of TaC Coatings Deposited on Silicon Using Hot Filament CVD System | |
| <u>M. Ali</u> | |

COFFEE BREAK 15:30-15:50

Session 28: Advanced Functional Oxides and other Materials

Chairs: Viorel Sandu

Ladda Meesuk

| | Page No. |
|---|----------|
| IL 88 15:50-16:10..... | G3 |
| Metal/Polymer Nanocomposites. Synthesis and Spatial Addressing of Metal Nanoparticles by Photoinduced Processes | |
| <u>Lavinia Balan</u> | |
| IL 89 16:10-16:30..... | H4 |
| Composite Kinetic Molecular Devices | |
| <u>Giuseppe Alibrandi</u> | |
| IL 90 16:30-16:50..... | H5 |
| Luminescence Studies on Some Rare Earth Complexes | |
| <u>Muhammad Idiris Saleh</u> | |
| IL 91 16:50-17:10..... | H6 |
| Copper(II) Complexes of Optically Active di(2-Picolyl)Amine Derivatives | |
| <u>Yang Kim</u> | |
| IL 92 17:10-17:30..... | H7 |
| Design and Synthesis of Novel Plasmodium Cysteine Protease Inhibitors | |
| <u>Teunis van Ree</u> | |

Conference Room 6

Session 29: Advanced Biomaterials

Chairs: Teruyuki Komatsu

Wilhelm K. Aicher

| | Page No. |
|---|----------|
| KL 34 8:30-9:00..... | B1 |
| Silica-Based Biohybrid Materials | |
| <u>Thibaud Coradin</u> | |
| KL 35 9:00-9:30..... | B2 |
| Synthesis of Novel Functional Aliphatic Polyesters for Biomedical Applications | |
| <u>Christine Jérôme</u> | |
| IL 93 9:30-9:50..... | B6 |
| Single Nanowire-based Biosensor to detect Myoglobin, CK-MB and c-Tnl | |
| <u>Minhee Yun</u> | |
| IL 94 9:50-10:10..... | B7 |
| Grating-Based Transmission Surface Plasmonic Devices | |
| <u>Akira Baba</u> | |
| IL 95 10:10-10:30..... | B8 |
| Synthesis and Properties of Fluorescent Labeling Agents Based on Rare-Earth Doped Phosphors | |
| <u>Jianhua Hao</u> | |

COFFEE BREAK 10:30-10:50

Session 30: Advanced Biomaterials

Chairs: Thibaud Coradin

Minhee Yun

| | Page No. |
|--|----------|
| KL 36 10:50-11:20..... | B3 |
| Sol-Gel Prepared Gelatin- and Chitosan-Based Inorganic-Organic Hybrids for Scaffold Applications | |
| <u>Akiyoshi Osaka</u> | |
| IL 96 11:20-11:40..... | B9 |
| Addressing Cells by Nano-Structured or Peptide-Modified Scaffold Surfaces | |
| <u>Wilhelm K. Aicher</u> | |
| IL 97 11:40-12:00..... | B10 |
| Biomaterials for Second Harmonic Generation | |
| <u>Pierre-François Brevet</u> | |
| IL 98 12:00-12:20..... | B11 |
| Biobased Material Systems and Synergism | |
| <u>Chu-Shiang Chen</u> | |

12:30-13:30 Lunch

Session 31: Advanced Biomaterials

Chairs: Rong-Min Wang

Christine Jerome

| | Page No. |
|---|----------|
| IL 99 13:30-13:50..... | B12 |
| Bioisosteric Approach for Development of Multifunctional Bio-Probes | |
| <u>Junya Chiba</u> | |
| IL 100 13:50-14:10..... | B13 |
| High Performance Flexible Inorganic Electronics for Biomedical Applications | |

Keon Jae Lee

IL 101 14:10-14:30.....B14
 Bioactive Polymers in Food Packaging and Medical Applications

Franz Stelzer

IL 102 14:30-14:50.....B15
 Applying Biomaterials: Taking Research Beyond the Academic Lab Bench

Eugene Khor

IL 103 14:50-15:10.....B16
 Design of Two-Photon Absorption Hybrid Nanoparticles for Diagnostic and Therapy

Stephane Parola

IL104 15:10-15:30.....B17
 ROMP in Dispersed Media: A Powerful Approach to Produce Responsive Polymeric Vectors for Drug Delivery

Valerie Heroguez

COFFEE BREAK 15:30-15:50

Session 32: Advanced Biomaterials

Chairs: Akiyoshi Osaka

Valerie Heroguez

IL 105 15:50-16:10.....B18
 On-Chip Sorting System Using a Thermo-Reversible Gelation Polymer to Control Flow

Takashi Funatsu

IL 106 16:10-16:30.....B19
 Pore-Spanning Lipid Membrane under Indentation Studied by Molecular Dynamics Simulations

Pai-Yi Hsiao

IL 107 16:30-16:50.....B20
 Elastomeric Surgical Sealant Adhesive 'SC-625A' for Hemostasis of Vascular Anastomosis

Yutaka Kawahara

IL 108 16:50-17:10.....B21
 Electrospun Biomimetic Composite Nanofibers for Tissue Scaffolding Applications

Yanzhong Zhang

IL 109 17:10-17:30.....B22
 Albumin Binding Metal Ions for Mimic of Antioxidant Enzyme

Rong-Min Wang

Conference Room 7

Session 33: Advanced Functional Polymers

Chairs: Koh-Hei Nitta

Dirk Kuckling

IL 110 8:30-8:50.....C35
 Properties and Morphology of Ethylene – Vinyl Acetate Copolymer (EVA)/Silica Nanocomposites Prepared by Sol-Gel Method in Absence and Presence of EVA-g-Maleic Anhydride

Thai Hoang

IL 111 8:50-9:10.....C36

Synthesis Highly Conductive and Magnetic Multi Core-Shell Nano Composite of
Ba_{0.5}Sr_{0.5}Fe₁₂O₁₉-Multiwalled Carbon Nanotube with Polypyrrole

S.H. Hosseini

IL 112 9:10-9:30.....C37

The Electrical and Ionic Transport Properties of Poly (Methyl Methacrylate) – Salicylic Acid Gel Electrolyte System Plasticized with Oleic Acid

Mohd Ikmar Nizam Mohamad Isa (M.I.N. Isa)

IL 113 9:30-9:50.....C38

Introduction on Properties and Application of Cyanobacterial Supergiant Polysaccharide, Sacran

Maiko Okajima

IL 114 9:50-10:10.....C39

Development and Optimization of Some Kinds of Ionic Liquids as an Initiator of Unique Radical Polymerization

Shuichi Kanno

IL 115 10:10-10:30.....C40

Microwave-assisted Polymer Reaction and Its Application for Graft Polymerization through Atom Transfer Radical Polymerization

Kiyoshi Kikukawa

COFFEE BREAK 10:30-10:50

Session 34: Advanced Functional Polymers

Chairs: Fabrice Mathevet

Kiyoshi Kikukawa

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IL 116 10:50-11:10.....C41

Spherulite Structure of Polypropylene-Based Nanocomposite

Koh-hei Nitta

IL 117 11:10-11:30.....C42

Fullerene Induced Networks in Aqueous Solutions of Polymers Complexed with Fullerene

Elena Tarabukina

IL 118 11:30-11:50.....C43

Novel Carbohydrate Derived Polymer for Diverse Usage

Min Tang

IL 119 11:50-12:10.....C44

Thermoplastic Elastomer/Oganoclay Nanocomposites: Morphology, Thermal and Mechanical Properties

Anna M. Szymczyk

IL 120 12:10-12:30.....C45

Synthesis and Chiroptical Properties of Hydroxyphenylglycine-Based Helical

Poly(Phenyleneethynylene)s

Fumio Sanda

12:30-13:30 Lunch

Session 35: Advanced Functional Polymers

Chairs: Zorica Crnjak Orel

Fumio Sanda

Page No.

IL 121 13:30-13:50.....C46

Photoactive Polymeric Materials in Nanometer Dimension Structures

S. Kucharski

IL 122 13:50-14:10.....C47

Synthesis of Functional Smart Polymers

Dirk Kuckling

IL 123 14:10-14:30.....C48

Simulation of Reacting Polymer Melts by Dissipative Particle Dynamics

Yaroslav V. Kudryavtsev

IL 124 14:30-14:50.....C49

Biodegradable Sprayable Varnishes for Agricultural Mulching Application: A New Sustainable Approach to Plasticsulture

Mario Malinconico

IL 125 14:50-15:10.....C50

'In situ Polymerization and Composite Formation (IPCF)': An important synthesis route for the fabrication of polymer stabilized nanomaterials for diverse applications

Kaushik Mallick

IL 126 15:10-15:30.....C51

Liquid Crystal Homo and Alternating (Co)Polymers Based on Pi-Conjugated Backbone for Organic Electronics

Fabrice Mathevet

COFFEE BREAK 15:30-15:50

Session 36: Advanced Functional Polymers

Chairs: Elena Tarabukina

Igor F. Perepichka

IL 127 15:50-16:10.....C52

Zinc oxide based PMMA nanocomposites as an effective UV absorber

Zorica Crnjak Oreš

IL 128 16:10-16:30.....C53

Chemical Modification of Glass Surface for Preparation Photochromic Polymer Films Resistant in Aqueous Solution

Ewelina Ortyl

IL 129 16:30-16:50.....C54

Investigation of Excited-State Properties of Fluorene-Thiophene Oligomers by the SAC-CI

Theoretical Approach

Potjaman Poolmee

OP 07 16:50-17:00.....C75

Interaction of Fluoroalkyl End-Capped 2-Acrylamide-2-Methylpropanesulfonic Acid Oligomer with a Variety of Ketones

Tetsushi Kijima

OP 08 17:00-17:10.....C76

Releasing Behaviors of Encapsulated Low Molecular Weight Aromatic Compounds into Fluoroalkyl End-Capped Acrylic Acid Oligomer/Silica Nanocomposites After Calcination at 800 °C

Mieko Kikuchi

OP 09 17:10-17:20.....C77

Thermal Degradation Behavior of Polypropylene in Melt State: Chain Scission Mechanism and Changes in Crystallization

Shengying Qian

OP 010 17:20-17:30.....C78
A Novel Approach to Produce Graphene
Jijia Cui

19th October, 2011

Conference Room 1

Session 37: Advanced Semiconductors

Chairs: G.K. Gueorguiev
Yunze Long

| | Page No. |
|---|----------|
| KL 37 8:30-9:00..... | E10 |
| Doping effects on the novel optical properties of single 1-d semiconductor nanostructures | |
| Bingsuo Zou | |
| KL 38 9:00-9:30..... | E11 |
| Carbon Nanotubes Based Laser-Induced Micro-Actuators, Micro-Heat Source and Scaffolds for Assembly of Nanomaterials | |
| <u>Sow Chorng Haur</u> | |
| IL 130 9:30-9:50..... | E32 |
| BiFeO ₃ Nanocrystal Thin Film – Magnetoelectric Properties and Novel Preparation | |
| <u>Nan-Loh Yang</u> | |
| IL 131 9:50-10:10..... | E33 |
| Synthesis, Properties and Applications of IV-VI Group Semiconductor Nanocrystals | |
| <u>Bo Zou</u> | |
| IL 132 10:10-10:30..... | E34 |
| Atomically Flat Single-Crystalline Gold Nanostructures for Plasmonic Nanocircuitry | |
| <u>Jer-Shing Huang</u> | |
| COFFEE BREAK 10:30-10:50 | |

Conference Room 2

Session 38: Advanced Functional Polymers

Chairs: Claude Chevrot
Chuh-Yung Chen

| | Page No. |
|--|----------|
| KL 39 8:30-9:00..... | C9 |
| Novel Thermosensitive Hydrophilic Polymers and Perspectives of their Application in Medicine and Nanoelectronics | |
| Grigoriy A. Mun | |
| KL 40 9:00-9:30..... | C10 |
| Perspectives of Iron Pre-Catalysts in Ethylene Polymerization | |
| <u>Wen-Hua Sun</u> | |
| IL 133 9:30-9:50..... | C55 |
| Molecular Imprinting in Hierarchically Structured Materials Using Pickering Emulsion Polymerization | |
| <u>Lei Ye</u> | |
| IL 134 9:50-10:10..... | C56 |
| Fluorene / Dibenzothiophene-S,S-Dioxide Copolymers with Dual Photo- and Electroluminescence | |
| <u>Igor F. Perepichka</u> | |
| IL 135 10:10-10:30..... | C57 |
| Sulfur Modification of Polymers for use in Asphalt Binders | |

Ibnelwaleed Hussein

COFFEE BREAK 10:30-10:50

Conference Room 3

Session 39: Advanced Photomaterials

Chairs: Shu-Fen Hu

Grzegorz Milczarek

| | Page No. |
|---|----------|
| KL 41 8:30-9:00..... | D12 |
| Inorganic Nanostructured Solar Cells | |
| <u>Changhui Ye</u> | |
| KL 42 9:00-9:30..... | D13 |
| Nanometer Materials as the Counter Electrode of Dye-Sensitized Solar Cells: from Less Pt to Pt Free | |
| <u>Jianyong Ouyang</u> | |
| KL 43 9:30-10:00..... | D14 |
| Computational Chemistry for Designing Functional Materials in Future Energy Technologies | |
| <u>Michihisa Koyama</u> | |
| IL 136 10:00-10:20..... | D33 |
| Unmodified Small-Molecule Organic Light-Emitting Diodes and Polymer Solar Cell by Blade Coating | |
| <u>Hsin-Fei Meng</u> | |
| OP 11 10:20-10:30..... | D53 |
| Hydrogen Production by Photoelectrochemically Splitting Solutions of Methanol Over TiO ₂ | |
| <u>Lei Li</u> | |

COFFEE BREAK 10:30-10:50

Conference Room 5

Session 40: Advanced Neutron-Scattering Technologies and Applications

Chairs: Kenneth C. Littrell

Hsiao-Wen Zan

| | Page No. |
|---|----------|
| KL 44 8:30-9:00..... | I2 |
| Neutron-Scattering Studies of Sustainable-Energy Materials | |
| <u>Vanessa K. Peterson</u> | |
| KL 45 9:00-9:30..... | I3 |
| Neutron Depth Profiling of Lithium Transport in Micro-Batteries | |
| <u>Peter H.L. Notten</u> | |
| IL 137 9:30-9:50..... | H8 |
| Photodynamics of the Flavins Lumiflavin and Lumichrome in Aqueous Solutions | |
| <u>Alfons Penzkofer</u> | |
| IL 138 9:50-10:10..... | H9 |
| Photoluminescence in Er-doped Ge-As-Se Chalcogenide Thin Films | |

Rongping Wang

IL 139 10:10-10:30.....H10

Synthesis of Luminescent Type Photocatalyst by Green Chemical Process

Shu Yin

COFFEE BREAK 10:30-10:50

Conference Room 6

Session 41: Advanced Organic- and bio-Materials

Chairs: Kazuya Kobiro

Stephane Parola

Page No.

KL 46 8:30-9:00..... A4

Isotypic Porous Metal-Organic Framework Materials: Synthesis, Stability and Applications

Sung Hwa Jung

KL 47 9:00-9:30..... A5

Integrated Reactions Using Addition to Conjugated Imines

Makoto Shimizu

IL 140 9:30-9:50..... A13

Imidazolium Anion-Exchangers – Crosslinked Analogues of Ionic Liquids

Andrzej W. Trochimczuk

IL 141 9:50-10:10.....A14

Synthesis and Characterization of 2-Iminium-1,3-dithiolane: A New Family of Ionic Liquids

Azim Ziyaei Halimehjani

IL 142 10:10-10:30.....B23

Design and Application of Bio-Inspired Nanomaterials

Qinmin Pan

COFFEE BREAK 10:30-10:50

Conference Room A2

Session 42: Advanced Energy Storage and Conversion Materials

Chairs: Prof. Peter H.L. Notten

Prof. Guoxiu Wang

Prof. Shaokui Cao

Page No.

PL05 13:30-14:15..... PL5

Radical Polymers Toward an Organic Battery and Photovoltaic Cell

Hiroyuki Nishide

PL06 14:15-15:00..... PL6

Non-noble Electrocatalysts for the Reduction of Oxygen at the Cathode of PeM Fuel Cells

Jean-Pol Dodelet

PL07 15:00-15:45..... PL7

Optical and Electrical Responsive Mesoporous Organic-Silica Hybrids for Solar Energy Conversion

Shinji Inagaki

COFFEE BREAK 15:45-16:00

Session 43: Advanced Biomaterials and Applications

Chairs: Dr. Andre-Jean Attias

Dr. Yutaka Kawahara

Prof. Ru-Shi Liu

| | Page No. |
|---|----------|
| PL08 16:00-16:45..... | PL 8 |
| Recent Developments of Functional Nanomaterial-Based Pretreatment Methods for Mass Spectrometric Analysis in Proteomics | |
| Pengyuan Yang | |
| PL09 16:45-17:30..... | PL 9 |
| Polyactides: Mechanisms of Controlled Synthesis, Some Properties and Applications | |
| Stanislaw Penczek | |
| PL10 17:30-18:15..... | PL 10 |
| Bionanocomposite Materials: The State of the Art | |
| Yury Shchipunov | |

.....

20th October, 2011

Conference Room 1

Session 44: Advanced Nanomaterials and Measurement

Chairs: Wuzong Zhou

Amy Walker

| | Page No. |
|---|----------|
| KL 48 8:30-9:00..... | E12 |
| Manipulation and Property Measurements of Individual 1D Nanomaterials Inside a TEM | |
| <u>Junqing Hu</u> | |
| IL 143 9:00-9:20..... | E35 |
| Large-Scale Assembly of Nanowires and Nanofibers for Electronics and Photovoltaics | |
| <u>Yunze Long</u> | |
| IL 144 9:20-9:40..... | E36 |
| Realistic atomistic modeling of pure and hydrogenated diamond-like carbon | |
| <u>Zhendong Sha</u> | |
| IL 145 9:40-10:00..... | E37 |
| Fabricating Substrate-Bonded One-Dimensional Nanostructures by Environment-Friendly Hydrogen Plasma Etching | |
| <u>Jiann Shieh</u> | |
| IL 146 10:00-10:20..... | E38 |
| Evaporative Assembly of Nanoparticles into Functional Networks | |
| <u>Ivan Vakarelski</u> | |
| COFFEE BREAK 10:20-10:40 | |

Session 45: Advanced Functional Nanomaterials

Chairs: Elodie Bourgeat-Lami

Ming Ding

| | Page No. |
|--|----------|
| IL 147 10:40-11:00..... | E39 |
| Nanosilicides: Playground for Novel Nanosynthesis | |
| <u>Tao(Tom) WU</u> | |
| IL 148 11:00-11:20..... | E40 |
| Nanostructures and Arrays Based on AAO Template | |
| <u>Faqiang Xu</u> | |
| IL 149 11:20-11:40..... | E41 |
| Hydrogen-Passivated Detonation Nanodiamond | |
| <u>Haitao Ye</u> | |
| IL 150 11:40-12:00..... | E42 |
| Modified Ta ₃ N ₅ Photocatalyst for Hydrogen Production | |
| <u>Leny Yuliati</u> | |
| IL 151 12:00-12:20..... | E43 |
| Preparation of Transparent Zirconia-based Organic-inorganic Nanocomposites Based on Nonaqueous Synthesized Zirconia Nanocrystals | |
| <u>Shuxue Zhou</u> | |

Conference Room 2

Session 46: Advanced Polymers and Applications

Chairs: Jaroslaw Mysliwiec

Chao Gao

| | Page No. |
|---|----------|
| KL 49 8:30-9:00..... | C11 |
| Organic Proton-Conducting Crystals | |
| <u>Markus Klapper</u> | |
| KL 50 9:00-9:30..... | C12 |
| Microgel-like Network Polymer Precursor Formation in Free-Radical Cross-linking Multiallyl Polymerization | |
| <u>Akira Matsumoto</u> | |
| IL 152 9:30-9:50..... | C58 |
| Synthesis and Properties of Graphene Oxide Grafted with V-Shaped Copolymer Brushes | |
| <u>Youliang Zhao</u> | |
| IL 153 9:50-10:10..... | C59 |
| Microwave Absorbing Polymer Composites | |
| <u>Yong Zhang</u> | |
| IL 154 10:10-10:30..... | C60 |
| Fabrication and Characterization of Permanently Linked Fe ₃ O ₄ /P(GMA-DVB) Peapod-like Micro Rod with High Magnetic Sensitivity through a Polymer-assisted Magnetic-field-induced Assembly | |
| <u>Qiuyu Zhang</u> | |
| COFFEE BREAK 10:30-10:50 | |

Session 47: Advanced Polymers and Applications

Chairs: Markus Klapper

Akira Matsumoto

| | Page No. |
|--|----------|
| KL 51 10:50-11:20..... | C13 |
| Graphene: Mass Production and Applications in Batteries | |
| <u>Zhaoping Liu</u> | |
| IL 155 11:20-11:40..... | C61 |
| Water-Compatible Molecularly Imprinted Polymers by Controlled/"Living" Radical Polymerization Techniques | |
| <u>Huiqi Zhang</u> | |
| IL 156 11:40-12:00..... | C62 |
| New Material Concepts Based on Microphase Separated Block Copolymers | |
| <u>Roland Weidisch</u> | |
| IL 157 12:00-12:20..... | C63 |
| Atactic Polypropylene Under Radiation-Chemical Modification | |
| <u>Gulzhakhan Yeligbayeva</u> | |
| OP 12 12:20-12:30..... | C79 |
| Design of Light-driven Double-Shape-memory Polyesters Based on Coumarate Derivatives | |
| <u>Siqian Wang</u> | |

12:30-13:30 Lunch

Session 48: Advanced Polymers and Applications

Chairs: Youliang Zhao

Roland Weidisch

| | | Page No. |
|--------|---|----------|
| IL 158 | 13:30-13:50..... | C64 |
| | Graphene Functionalization and its Nanocomposites | |
| | <u>Zhongzhen Yu</u> | |
| IL 159 | 13:50-14:10..... | C65 |
| | Nanostructured Periodic Surfaces on Polymer Thin Films: Preparation and Properties | |
| | <u>Tiberio Ezquerro</u> | |
| IL 160 | 14:10-14:30..... | C66 |
| | Organic and Organic-Inorganic Block Copolymers for Nanostructuring of Polymer Networks | |
| | <u>Jean-Francois Gerard</u> | |
| IL 161 | 14:30-14:50..... | C67 |
| | Microcellular Foaming of PP/EPDM/Organoclay Nanocomposite: Study the Effect of Nanoclay Distribution on Foam Morphology | |
| | <u>Ismaeil Ghasemi</u> | |
| IL 162 | 14:50-15:10..... | C68 |
| | Preparation of PVP Fiber by Electrospinning in Pressureized CO ₂ | |
| | <u>Motonobu Goto</u> | |
| IL 163 | 15:10-15:30..... | C69 |
| | The strategy and the development of the production of the synthetic resins in ALGERIA | |
| | <u>M. Hanafi</u> | |

COFFEE BREAK 15:30-15:50

Session 49: Advanced Polymers and Applications

Chairs: Gulzhakhan Yeligbayeva

Valerio Causin

| | | |
|--------|--|-----|
| IL 164 | 15:50-16:10..... | C70 |
| | Highly Functional Polymemrs by Three-Component Polycondensation | |
| | <u>Ikuyoshi Tomita</u> | |
| IL 165 | 16:10-16:30..... | C71 |
| | The Structural Effects of Polyaniline [Composite- Materials] and Its Applications | |
| | <u>Muthusamy Paramasivam</u> | |
| IL 166 | 16:30-16:50..... | C72 |
| | Preparation and Application of Novel Fluoroalkyl End-Capped Oligomeric Nanocomposites | |
| | <u>Hideo Sawada</u> | |
| IL 167 | 16:50-17:10..... | C73 |
| | Synthesis of Polymer-Coated Gold Nanoparticles and Their Use for the Preparation of Block Copolymer-Based Nanocomposites | |
| | <u>Massimo Lazzari</u> | |
| OP 13 | 17:10-17:20..... | C80 |
| | Theoretical Investigation on Fluorescence Energies and Radioactive Lifetimes of Thienylene-Phenylene Copolymer | |
| | <u>Rungtiwa Chidthong</u> | |
| OP 14 | 17:20-17:30..... | C81 |

Fabrication of Aligned Fibrous Arrays and Twisted Yarns by Double-Spinning

Mengmeng Li

OP 15 17:30-17:40.....C82

New Materials for Convertors of Energy

I. Suleimenov

Conference Room 3

Session 50: Advanced Energy Materials

Chairs: Nataliya Shwartz

Vladimir Svrcek

KL 52 8:30-9:00..... Page No. D15

Effects of Surface Chemistry of the Cathode Materials on Their Electrochemical Performances

Jaephil Cho

KL 53 9:00-9:30..... D16

Mesoporous Electrode Materials for Energy Storage Devices

Guoxiu Wang

IL 168 9:30-9:50..... D34

Nano-Structuring Lithium Metal Phosphates

Hyun-Kon Song

IL 169 9:50-10:10..... D35

Enhanced Properties of Self-organized Core-Shell Structured Cathode Materials in All-Solid-State

Lithium Batteries

Xiaoxiong Xu

IL 170 10:10-10:30..... D36

Time-Resolved Spectroscopy of III-V Semiconductor Nanowires

Patrick Parkinson

COFFEE BREAK 10:30-10:50

Session 51: Advanced Energy Materials

Chairs: Prem N. Gupta

Zhaohui Li

IL 171 10:50-11:10..... Page No. D37

Synthesis of Uniform-Sized Nanoporous Silicon Nanowire Anodes via Block Copolymer

Lithography

Soojin Park

IL 172 11:10-11:30..... D38

Preparation of Core-Shell Battery Materials by Novel Dip Coating Methods

Angelika Basch

IL 173 11:30-11:50..... D39

Tin Nanoparticles in Carbon Containers: A Novel Powerful Anode for Li-based Batteries

Yan Yu

IL 174 11:50-12:10..... D40

Is water an additive in lithium ion battery?

Fu-Ming Wang

OP 16 12:10-12:20.....D54
Polypyrrole-coated LiV₃O₈ Nanocomposite with Good Electrochemical Performance as Anode Material for ARLBs

Lili Liu

OP 17 12:20-12:30.....D55
Aqueous Supercapacitors of High Energy Density Based on MoO₃ Nanoplates as Anode Material

Wei Tang

12:30-13:30 Lunch

Session 52: Advanced Nanomaterials and Applications

Chairs: Jianyong Ouyang

Chanoch Carmeli

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KL 54 13:30-14:00..... D9
Pt Nanowire Based Electrocatalyst for Oxygen Reduction

Mei Cai

IL 175 14:00-14:20.....D42
The Fluorochemical Expansion Initiative (FEI): South African government’S fluorspar mineral beneficiation programme

Mahlori Jeffrey Mashimbye

IL 176 14:20-14:40.....D43
Peculiarities of axial and radial Si-Ge heterojunctions formation in nanowires – Monte Carlo simulation

Nataliya Shwartz

IL 177 14:40-15:00.....D44
Electronic Interactions of SILICON Nanocrystals and nanocarbon materials: Hybrid Solar Cells

Vladimir Svrcek

IL 178 15:00-15:20.....D45
Process to High Efficiency Low Cost Dye-Sensitized Solar Cells

Chun-Guey Wu

IL 179 15:20-15:40.....D46
Topotactic Fabrication of Optoelectronic Nanostructured Materials with Designed Phase and Assembly

Mingmei Wu

COFFEE BREAK 15:40-16:00

Session 53: Advanced Nanomaterials and Applications

Chairs: Patrick Parkinson

Chun-Guey Wu

IL 180 16:00-16:20.....D47
Fabrication of Oriented Mutilayers of Photosynthetic Reaction Centers

Chanoch Carmeli

IL 181 16:20-16:40.....D48
Colloidal I-III-VI Semiconductor Nanocrystals for Light-Emitting and Solar-Harvesting Applications

Haizheng Zhong

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| IL 182 | 16:40-17:00..... | D49 |
| Investigation of Deposition Parameters on Co-Evaporated Cu(In,Ga)Se ₂ Solar Cells | | |
| <u>Chia-Hua Huang</u> | | |
| IL 183 | 17:00-17:20..... | D50 |
| Carbon Nanohybrids for Photo-thermal and photo-energy conversion | | |
| <u>Yanfei Shen</u> | | |
| OP 18 | 17:20-17:30..... | D56 |
| New Polymeric Materials for Photovoltaic Applications | | |
| <u>Yingping Zou</u> | | |
| OP 19 | 17:30-17:40..... | D57 |
| Novel Organic Electrolyte for Electric Double-Layer Capacitors | | |
| <u>Lixia Wang</u> | | |

Conference Room 5

Session 54: Advanced Neutron-Scattering Technologies and Applications

Chairs: Vanessa K. Peterson

Alfons Penzkofer

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| IL 184 | 8:30-8:50..... | H11 |
| Polymer Vertical Transistors And Sensors | | |
| <u>Hsiao-Wen Zan</u> | | |
| IL 185 | 8:50-9:10..... | I4 |
| The Use of Small-Angle Scattering to Probe the Evolution of Microstructure in Advanced Engineering Materials | | |
| <u>Kenneth C. Littrell</u> | | |
| IL 186 | 9:10-9:30..... | I5 |
| Proteins in Membranes using Neutrons | | |
| <u>D. McGillivray</u> | | |
| IL 187 | 9:30-9:50..... | I6 |
| High-temperature Magnetic Ordering in Perovskite SrTcO ₃ | | |
| <u>E. Rodriguez</u> | | |
| IL 188 | 9:50-10:10..... | I7 |
| Studying Batteries Using <i>In-Situ</i> Neutron Diffraction | | |
| <u>N. Sharma</u> | | |
| IL 189 | 10:10-10:30..... | I8 |
| Neutron Scattering Investigation of Thin Film Magnetism | | |
| <u>T. Saerbeck</u> | | |

COFFEE BREAK 10:30-10:50

Conference Room 6

Session 55: Advanced Materials and Applications

Chairs: Teunis van Ree

Makoto Shimizu

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| KL 55 | 8:30-9:00 | | B4 |
| Stimuli-Responsive Polymers Derived from Amino Acids | | | |
| <u>Zhibo Li</u> | | | |
| IL 190 | 9:00-9:20 | ..... | A15 |
| Polysiloxanes as Supports for Transition Metal Catalysts | | | |
| <u>Marek Cypryk</u> | | | |
| IL 191 | 9:20-9:40 | ..... | B24 |
| Manufacture of Bio-Nanocomposite Functional Mats from Gelatin | | | |
| <u>X.W. Yuan</u> | | | |
| IL 192 | 9:40-10:00 | ..... | B25 |
| Impact of Textural Properties of Double Mesoporous Core-Shell Silica Nanospheres on Drug Control Release Parameters | | | |
| <u>Ahmed Mohamed El-Toni</u> | | | |
| IL 193 | 10:00-10:20 | ..... | A16 |
| New Decorations of Carbon Nanotubes | | | |
| <u>Fernando Langa</u> | | | |
| OP 020 | 10:20-10:30 | ..... | A22 |
| Highly Efficient Synthesis of Quinuclidine | | | |
| <u>Huichen Zhang</u> | | | |
| COFFEE BREAK 10:30-10:50 | | | |

Session 56: Advanced Biomaterials and Applications

Chairs: Ahmed Mohamed El-Toni

Hiroaki Isago

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| IL 194 | 10:50-11:10 | | B26 |
| Arrays of Individually Addressable Polyelectrolyte Multilayer Chambers | | | |
| <u>Maxim Kiryukhin</u> | | | |
| IL 195 | 11:10-11:30 | ..... | B27 |
| Cellular Polymer Biocomposites | | | |
| <u>Marek A Kozlowski</u> | | | |
| IL 196 | 11:30-11:50 | ..... | B28 |
| Elaboration of New Nanostructured PNIPAM-Grafted Surface Bearing Nonfouling Properties towards Neurodegenerative Proteins | | | |
| <u>Fabienne Poncin-Epaillard</u> | | | |
| IL 197 | 11:50-12:10 | ..... | B29 |
| Optical Functionalism of Branched Chromophore | | | |
| <u>Rolandas Tomasiunas</u> | | | |
| IL 198 | 12:10-12:30 | ..... | B30 |
| Polymer Catalysts Imprinted with Cu(II) Ions As a Biomimics of Copper-Oxidases | | | |
| <u>Anna Jakubiak-Marcinkowska</u> | | | |

12:30-13:30 Lunch

Session 57: Advanced Bio- and other Functional Materials

Chairs: Zhibo Li

Fernando Langa

| | | | |
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| KL 56 | 13:30-14:00 | | B5 |
| Artificial Muscles - Soft and Wet Engine of the Next Era | | | |
| <u>Yoshihito Osada</u> | | | |
| IL 199 | 14:00-14:20 | ..... | A17 |
| Modified Supports for Improving Activity and Selectivity of the Heterogeneous Catalysts | | | |
| <u>Mehran</u> | | | |
| IL 200 | 14:20-14:40 | ..... | A18 |
| Synthesis of Axially Silyl End-Capped Antimony-Phthalocyanines and their Spectral and Electrochemical Properties | | | |
| <u>Hiroaki Isago</u> | | | |
| IL 201 | 14:40-15:00 | ..... | A19 |
| Synthesis and Chemical Modification of Novel Molecular Materials for EUV Lithography and Other Functional Materials | | | |
| <u>Hiroto Kudo</u> | | | |
| IL 202 | 15:00-15:20 | ..... | A20 |
| Furanoeremophilane as a new material for some Ligularia species in Yunnan and Sichuan | | | |
| <u>Chiaki Kuroda</u> | | | |
| IL 203 | 15:20-15:40 | ..... | A21 |
| Biodiesel Production by Esterification of Free Fatty Acids and Transesterification of Triglycerides over a Solid Acid Catalyst Comprising 12-Tungstophosphoric Acid and SBA-15 | | | |
| <u>Anjali Patel</u> | | | |
| COFFEE BREAK 15:40-16:00 | | | |
| Session 58: Advanced Biomaterials and Chiral Materials | | | |
| Chairs: Prof. Dr. Shizhang Qiao | | | |
| Prof. Huamin Zhang | | | |
| IL 204 | 16:00-16:20 | ..... | B31 |
| The Protein-protected Gold-Nanoclusters and their Applications in Sensing | | | |
| <u>Yuqing Wu</u> | | | |
| IL 205 | 16:20-16:40 | ..... | B32 |
| Preparation of Mesoporous Bioglass Coated Zirconia Scaffold for Bone Tissue Engineering | | | |
| <u>Cheng Yan</u> | | | |
| IL 206 | 16:40-17:00 | ..... | B33 |
| Self-Repair in the Channels of Silica Nanocomposites | | | |
| <u>Hendrik Oktendy Lintang</u> | | | |
| OP 021 | 17:00-17:10 | ..... | A23 |
| Synthesis of Novel Highly N-Substituted Propellanes | | | |
| <u>Moonyong Shin</u> | | | |
| OP 022 | 17:10-17:20 | ..... | A24 |
| Enantioselective Synthesis of C3 Symmetric Chiral Triazasumanenes | | | |
| <u>Qitao Tan</u> | | | |
| OP 023 | 17:20-17:30 | ..... | A25 |
| Visual Chiral Recognition through Enantioselective Metallogel Collapsing: Synthesis, Characterization, and Application of Platinum–Steroid Low-Molecular-Mass Gelators | | | |
| <u>Weiwei Fang</u> | | | |

Poster Session:

Exhibition site: Conference Room A2

Time: 10:30-12:30, 19th October, 2011

| No. | Author(s) | Title of Presentation |
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| P1 | G. Kądziołka, M. Gleń, A. W. Morawski, B. Michalkiewicz | Photocatalytic Reduction of Carbon Dioxide to C1 Organic Derivatives |
| P2 | Huichen Zhang, Xiaojun Chen, Lixia Wang, Zhen Zhao, Fangqin Lin, Shiyu Guan* | Highly Efficient Synthesis of Quinuclidine |
| P3 | Xiaodong Guo, Shouqin Gao, Duxin Li, Peihua Lin, Chuan Dong, Shaomin Shuang* | Synthesis and Spectral Study of Two Novel Ict Compounds Containing Carbazole |
| P4 | D. Guzeller, H. Ocak, B. Bilgin-Eran | Silylated Bent-Core Mesogens with Biphenyl Central Unit and Olefin Terminated Derivatives |
| P5 | Zubair Hasan and Sung Hwa Jung | Adsorptive Removal of Pharmaceuticals and Personal Care Products with Metal-Organic Frameworks |
| P6 | In Joong Kang, Nazmul Abedin Khan, Sung Hwa Jung* | Effect Of Central Metal Ions on the Chemical and Thermal Stability of Isotypic Metal-Organic Frameworks |
| P7 | Nazmul Abedin Khan, Sung Hwa Jung* | Isotypic Metal-Organic Frameworks, Metal-Benzenedicarboxylates, for Liquid-Phase Adsorption/Removal of Benzothiophene |
| P8 | J. Ziebro, G. Kądziołka, B. Michalkiewicz | Synthesis of Nanocarbon Materials from Methane |
| P9 | Myeong Hak Kim, Moonyong Shin, Hye Ryung Lee, Tae Hwan Ha, Jongho Jeon, Kyoo-Hyun Chung, Jin Seuk Kim, Young Gyu Kim | Synthesis and Nitration Study of Azapropellanes |
| P10 | D. W. Kim, M. S. Park, S. D. Lee, D. W. Park* | Synthesis of Glycerol Carbonate from Glycerol and Urea Using Supported Ionic Liquid Catalysts |
| P11 | K.N. Semenov*, N.A. Charykov, V.A. Keskinov | The Fullerenol Synthesis and Identification and Main Properties of The Fullerenol Water Solutions |
| P12 | S. Hata, S. Ariga, I. Hachiya, M. Shimizu* | Titanium Tetrahalides Promoted Regioselective Ring-Opening and Reductive Aldol Reactions of Azetidin-3-Ones |
| P13 | Fangzheng Su, Xinchun Wang, Markus Antonietti | Carbon Nitride-Photocatalyzed Aerobic Oxygenation of Tertiary Amines via Activation of sp ³ C-H Bond with Visible Light |
| P14 | Warot Chotpatiwetchkul, Phornphimon Maitarad*, Suriya Tateing, Nawee Kungwan, Supa Hannongbua* | 3d-QSAR Study of 2-Hydroxycyclohexylsulfonamide Derivatives Against Botrytis Cinerea |
| P15 | Soledad Machado, Ana Acevedo, Graciela Borthagaray, Laura Capote, Malena Abud, María E. Lucas, Alicia Cuevas, Raúl Chiozzone | Incorporating Silver Nanoparticles into Gels, Lotions and Creams: Broad Spectrum Antimicrobial Pharmaceuticals for Topical Use |

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| P16 | Eul Hye Jeon, Sung Kwang Lee* | QSAR Study To Predict Relative Binding Affinity For Androgen Receptor using Cats and Pharm Rdf Descriptors |
| P17 | Haiyang Dou, Sun Tae Kim, Ki Hun Kim, Byung Chul Lee, Hyoun Soo Kim, Chul Kim, Seungho Lee* | Capability of Flow Field-Flow Fractionation (FLFFF) for Size-Characterization of Rdx Particles |
| P18 | Ji Young Cha, Seung Bin Baek, Hee Cheon Lee, Chul Kim* | NMR Study on Conformation and Dynamics of Substance P in Acidic Bicelles |
| P19 | Ji Young Cha, Chul Kim, Sung Kwang Lee* | A Mechanistic Interpretation and Prediction of the Rate Constants for the Gas-Phase Degradation of O ₃ , OH and NO ₃ Radicals: A QSPR Approach |
| P20 | Jin Hee Jeong, Seungho Lee, Sung Kwang Lee* | QSPR Approach for Estimating Bioconcentration Factor of Diverse Organic Compounds Using 2d Molecular Descriptors and Machine Learning Methods |
| P21 | John Wang Happy Tan, Li Xu | Bifunctional Peolated Fe ₃ O ₄ @SiO ₂ Nano Core-Shells via Bioinspired Siliciation for Controlled Drug Delivery and MRI |
| P22 | H. Azizi, J.Faghihi | The Effect of Nanoclay on the Properties of Styrene-Butadiene-Styrene Thermoplastic Elastomer and its Blend with Polyethylene and Polystyrene |
| P23 | H. Bouchékif, S. Carlotti And A. Deffieux | Design of a Cross-Linking Poly(ε-Caprolactam) Copolymerization System for Mold Processes |
| P24 | A.M. Gumerov, I.M. Davletbaeva | The Synthesis of Optically Transparent Mesoporous Polymers with Anionic Macroinitiator |
| P25 | I.M. Davletbaeva1, R.S. Davletbaev, A.M. Gumerov1 | Metalcoordinated Semiconducting Polyurethanes |
| P26 | A. Mirabedini, M. Karrabi, I. Ghasemi, F.Abbassi | Stress Relaxation Behavior of NBR/Phenolic Resin |
| P27 | S. Hossein Hosseini, A. Jafari Najaf Abadi | Synthesis and Characterization of Magnetic and Conductive Graphite Nanoflake / CoFe ₂ O ₄ Nanocomposites Based on Polypyrrole |
| P28 | Seyed Hossein Hosseini, Maryam Moloudi | Preparation and Characterization of MnFe ₂ O ₄ Masked by TiO ₂ and Polythiophene |
| P29 | Seyed Hossein Hosseini, Bahareh Farhadpour | Synthesis of Conducting Liquid Crystalline Polythiophene Containing Azobenzene Group under Electric Field |
| P30 | Seyed Hossein Hosseini, Dina Alizadeh | Preparation of Carbon Flake Nanocomposite Based on Melamine-Formaldehyde (MF) Resins |
| P31 | A.S. Samsudin And M.I.N. Isa | The Electrical and Ionic Conductivity on Carboxy Methylcellulose –NH ₄ Br Based Biopolymer Electrolytes System |
| P32 | A. Md. Ali, Y. Oka, And T. Kaneko* | Syntheses of Novel Polyamides Bio-Based on Itaconic Acid With Diamines via Aza-Michael Addition/Amidation |
| P33 | K. Kan, D. Kaneko, And T. Kaneko* | Thermotropic Bio-Based Polymers Derived from Wholly Aromatic Amino Acid and their Polarized Photoluminescence |

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| P34 | K. Yasaki, D. Kaneko, And T. Kaneko* | Real-Time Photodeformation Induced by Cinnamoyl Molecular Spring |
| P35 | Q. T. Nguyen, M. K. Okajima,* T. Kaneko | Metal-Mediated Self-Assembly of Sulfated Polysaccharides Extracted from Aphanothece Stagnina Natural Gels |
| P36 | Shuichi Kanno | Solvent Influences on the Ionic Liquid-Initiated Radical Polymerization |
| P37 | Shunsuke Izumi, Masato Yoshida, Hideo Sawada* | Preparation of Novel Fluorinated Cooligomeric Nanoparticles-Encapsulated Rose Bengal Possessing Thermochromism Behavior |
| P38 | T. Saito, H. Kakehi, Y. Kato, M. Miura, N. Isu, H. Sawada* | Preparation and Thermal Stability of Perfluoro-1,3-Propanedisulfonic Acid/Calcium Fluoride Nanocomposites |
| P39 | T. Kijima, H. Sawada* | Immobilization Of Palladium Nanoparticles in Fluoroalkyl End-Capped Oligomeric Aggregate Cores and their Application in Catalysis |
| P40 | Dong Eun Kang, Il Kim* | A Study on Air Bubble-Assisted Formation of Micro/Nano Scale Honeycomb Patterns of Polymer |
| P41 | Min Hee Kim, Jing Wang, Il Kim* | Synthesis and Application of Amphiphilic Alkyl-Terminated Hyperbranched Polyglycidols |
| P42 | Kyeong Mi Lee, Il Kim* | Synthesis of Thermostable Ni (II) A-Diimine Complexes Bearing Multi-Hydroxyl-Groups for Ethylene Polymerizations |
| P43 | H. Tamezawa, T. Kumagai, S. Inoue, K. Yokoyama, Y. Matoba, M. Shibano, T. Uchibori, H. Aota, A. Matsumoto* | What Is the Fate of Resonance-Stabilized Monomeric Allyl Radical in Allyl Polymerization? |
| P44 | K. Himei, H. Aota, A. Matsumoto | Ultrasonic Degradation of Network Polymers or Crosslink-System-Materials to Their Precursors |
| P45 | T. Takamori, H. Aota, A. Matsumoto | Synthesis of Nanoparticles as Constituents of Crosslink-System-Materials by Free-Radical Crosslinking Monomethacrylate/Dimethacrylate Copolymerizations |
| P46 | G. Mun, B. Yermukhambetova, Zh. Zhatkanbayeva, R. Mangazbayeva, R. Rakhmetullayeva, A. Toktabayeva | Formation of Interpolymer Complexes and Hydrophilic Associations and their Application in New Image Reproduction Systems |
| P47 | A.V. Penkova, V.M. Vorotyntsev, I.V. Vorotyntsev, A.M. Toikka | Membrane Materials Based on Polymer Nanocomposites for Gas Separation |
| P48 | I. Suleimenov*, V. Bublik And D.B. Shaltykova | Hydrophilic Associates: A New Material for Quasibiological Electronics |
| P49 | Keda Wang, Lijun Liu, Fengyou Jin* | Synthesis of Superabsorbent Polymer from Eggshell Membrane |
| P50 | Meng-Lan Jiang, Rong-Min Wang*, Jun-Feng Guo, Shao-Fei Zhang, Yu-Feng He | Preparation and Properties of Self-Cross-Linked Potato Starch-Based Graft Copolymer |
| P51 | Ling Zhang, Yu-Feng He, De-Zhen Yan, Shi-Lei Liu, Rong-Min Wang* | Modification Of Wheat Stalk Cellulose By Poly(Acrylic Acid) For Removing Lead Ions |

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| P52 | G. Yeligbayeva*, A. Shaikhutdinova, G. Irmukhmetova, V. Bublik, E. Shaikhutdinov | Excitation of Suleimenov – Mun'S Waves at Polymer Composite Surface |
| P53 | Pei-Yi Chang, Ruey-An Doong* | Facile Synthesis of Tin Nanoparticles Encapsulated in Ordered Mesoporous Carbon Matrix for Anode of Li-Ion Batteries |
| P54 | Mohamed Ghenoun, Menouar Hanafi | Use of The Photovoltaic Technology and the Experience with the Solar Energy Electrification of Some Localities in The South of Algeria |
| P55 | Yao Fu, Zhiqun Ye, Tingwei Cai, Lixia Wang, Shiyu Guan* | The Preparation and Characterization of Olivine LiFePO ₄ /C Doped with Li Phosphorous Sulfide |
| P56 | Bingxiao Liu, Guangshuai Han, Bing Li*, Shiyu Guan* | Improved Low Temperature Performance of Lithium-Ion Cells with Monofluoroethylene Carbonate as the Electrolyte Additive |
| P57 | G-Q. Li, N. Hiyama, M. Matsuo, M. Kano, S. Takagi, S. Semboshi, S. Orimo | Synthesis and Characterizations of Complex Hydride YMn ₂ H ₆ |
| P58 | H. X. Yang, T. Song, H. Park, H. Kim, U. Paik* | Nanofibers of Hybrid Polyaniline/Polyoxometalates as Cathode Electrode for Lithium Ion Batteries |
| P59 | Taseup Taseup Song, Junghyun Choi, Fan Xia Wonil Park, Seoung Hun Kim, Hansu Kim And Ungyu Paik* | Si Nanowires Branching with Carbon Nanofibers as an Anode Material for Lithium Ion Batteries |
| P60 | H. X. Yang, T. Song, H. Park, H. Kim, U. Paik* | Nanofibers of Hybrid Polyaniline/Polyoxometalates ss Cathode Electrode for Lithium Ion Batteries |
| P61 | N.L.Shwartz*, E.A.Mikhantiev, I.G.Neizvestny, S.V.Usenkov | Simulation of NC-Si Formation during SiO _x Layers Annealing |
| P62 | Sylwia Ronka, Andrzej W. Trochimczuk | Novel Materials for Adsorptive Desulfurization of Liquid Fuels gor Fuel Cell Applications |
| P63 | Zhenxuan Wang, Nan Wu, Kazuyuki Hirao | Efficient Visible-Light-Driven Overall Water Splitting by Abundant-Elements Based Photocatalyst |
| P64 | X.J. Wang, Y.Y. Hou, H. Sun, F.X. Wang, Y.P. Wu* | Preparation of Three-Dimensionally Ordered Macro-Porous Copper and Nickel as Collector for Lithium Battery |
| P65 | Y.Y. Hou, H. Sun, X.J. Wang, F.X. Wang, S.Y. Wang, Y.P. Wu* | LiFePO ₄ /MCNT Composites with Hierarchical Porosity as Ultra-Fast Cathode Material for ARLBs |
| P66 | H. Sun, Y.S. Zhu, F.X. Wang, Y.P. Wu* | An Improved Method to Synthesize Lithium Bis(Oxalato)-Borate |
| P67 | T.T. Zhu, Y.S. Zhu, S.Y. Xiao, F.X. Wang, Y.P. Wu* | Bromine Doped Polypyrrole Nanoparticles with High Rate and Cycling Performance |
| P68 | Shiyin Xiao, Zhaohui Li* | Preparation of the Spherical and Porous Manganese Dioxide and its Electrochemical Properties |
| P69 | Haiyan Zhang, Rui Lin, Chunhui Cao, Jianxin Ma | Preparation of Core-Shell Pt@Au/C Electrocatalysts with High Activity for Oxygen Reduction |
| P70 | J. Ostrowska, E. Zygadlo-Monikowska*, N. Langwald, | Synthesis and Electrochemical Properties of New Trifluoroalkoxyborate Lithium |

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| P71 | J. Ostrowska, W. Sadurski, E. Zygadlo-Monikowska*, Z. Florjańczyk, N. Langwald, P. Kubisa, T. Biedroń | Application of Modified Imidazolium Ionic Liquids as Lithium Electrolyte Solvents |
| P72 | Yi Ling Chiew, Kuan Yew Cheong | Effect of Different Ratios of Rice Husk Ash and Oil Palm Empty Fruit Bunch Fibers on The Formation of SiC Nanowires |
| P73 | Dewei Chu | A Simple and Novel Route for Preparation of TiO ₂ Nanostructures and their Bio-Sensing Applications |
| P74 | Min Zhou, Jiajia Cui, Tingting Liu, Shiyou Guan* | Ionic Liquid as Precursor for Graphene-Based Carbon Nitride Nanosheets with High Surface Area and Nitrogen Content |
| P75 | Yong Hui Li, Chul Sung Kim* | Fabrication of Monodisperse MnFe ₂ O ₄ @SiO ₂ Microspheres with Core-Shell Structure |
| P76 | Sun Tae Kim, Hyun Kyum Kim, Sun Ho Han, Euo Chang Jung, Sung Kwang Lee, Seungho Lee* | Analysis of Size and Concentration of TiO ₂ Nanoparticles by Sedimentation Field-Flow Fractionation and Single Particle Mode of ICP-MS |
| P77 | Jie Zheng*, Yunze Long, Jiayin Huang | Oriented and Twisted Polymer Nanofibers Prepared by Electrospinning with Dual Collection Frames |
| P78 | Zhihua Zhang *, Yun-Ze Long, Hongxing Yin | Fabrication of Ordered Arrangement and Cross Structure Fluorescent Nanofibers via Centrifugal Electrospinning |
| P79 | Nan Wu, Yasuhiko Shimotsuma, Masaaki Sakakura, Masayuki Nishi, Kiyotaka Miura, Kazuyuki Hirao | Photo-Initiation of ZnO Nanowire Formation by Femtosecond Laser Irradiation |
| P80 | Won Suk Choi, Kuk Ro Yoon* | Novel Hollow PAH-FITC/TiO ₂ /Au Nanofiber Photocatalyst Fabricated by Electrospinning |
| P81 | Ts. Dimitrov, M. Doynov, M. Stancheva | Study of Ceramic Pigments Using Waste Catalysts from Petroleum Revision Productions |
| P82 | Hyun Tae Cho, Chul Sung Kim* | Magnetic And Mössbauer Studies For Mn _{1-x} Fe _x As |
| P83 | Fengjiao Yu, Wuzong Zhou, Pascal Lignier, Bob Tooze | Early Stage Crystal Growth of Copper-Platinum Bimetallic Nanoalloys |
| P84 | N. Marinova, N. Georgiev, V. Bojinov* | Facile Synthesis, Properties and Sensor Activity of 4-Aryloxy Substituted 1,8-Naphthalimides |
| P85 | N. Georgiev, V. Bojinov | Design and Synthesis of Highly Photostable Blue Emitting 1,8-Naphthalimide as Fluorescent Sensor for Metal Cations and Protons |
| P86 | C-L Chiang, C-Y Chen, C-S Lin | Preparation and Dispersion of Magnetite Nanofluids with High Solid Content by Wet Beads Milling |
| P87 | M. Doynov, Ts. Dimitrov | New Ceramic Materials Synthesis Using Waste Catalysts From Petroleum Revision Productions |

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| P88 | K. Łuczka*, B. Grzmil, M. Gleń, K. Kowalczyk | Aluminium Calcium Phosphate as Anticorrosive Pigment |
| P89 | Xiao-Xiao Li, Rong-Min Wang*, Gang Li, Yu-Feng He, Xiao-Chun Yin | Preparation and Properties of Self-Cross-Linked Potato Starch-Based Graft Copolymer |
| P90 | K.C. Littrell, G Rother, L. Anovitz, D. Cole, C. L.M. Debeer-Schmitt | In-Situ Study of Kerogen Release and Metamorphism in Oil Shale by Sans |
| P91 | Nadjet Bekhtaoui | The Treatment of the Liquid Rejects from the Petroleum Refinery of Arzew–Algeria to the Mediterranean Littoral |
| P92 | T. Yamagata, J. Kuwabara, T. Kanbara* | Synthesis of Diketopyrrolopyrrole Derivative Having 1,1,4,4-Tetracyanobutadienes |
| P93 | D. Guzeller, H. Ocak, Oznur Yaşa-Şahin, B. Bilgin-Eran | Effect of the Structural Modifications on the Mesomorphic Properties of Bent-Core Molecules |

20. Lady Program

Due to limited seats, this program is only available to registered accompanying persons.

20.1 17 October, 2011:

13:30: Boarding bus at the lobby of Baolong Hotel

13:30 - 17:00: Touring Shanghai Museum

20.2 18 October, 2011:

8:45: Boarding bus at the lobby of Baolong Hotel

8:45 - 16:00: Departing for Chongmin Island, touring National Dongping Forest Park and having lunch

20.3 19 October, 2011:

8:45: Boarding bus at the lobby of Baolong Hotel

8:45 - 16:00: Departing for Exhibition Center of World EXPO 2010 Shanghai and having lunch

20.4 20 October, 2011

13:30: Boarding bus at the lobby of Baolong Hotel

13:45 - 16:00: Touring around Fudan University including Jiangwan Campus

21. Social Program (Free for the registered participants and the registered accompanying persons)

21.1 17 October, 2011:

18:30-18:45 Boarding buses at the gate of Danyuan (Professor) Restaurant

18:45-21:00 Departing and Touring Pujiang River

***Please bring a coat with you in case of wind.**

21.2 18 October, 2011:

18:30-18:45 Boarding buses at the gate of Danyuan (Professor) Restaurant

18:45-21:00 Departing and Watching Acrobat performance

21.3 20 October, 2011:

18:30-21:00: Awarding and Banquet.

21.4 21 October, 2011: City tour

8:00-8:15: Boarding buses at the Lobbies of Training Center and Baolong Hotels

9:30-11:30 Ascending Oriental Pearl and touring museum of Old Shanghai

13:00: Having lunch at the down-town

13:30-18:00: Touring silk museum and Chenghuang Temple, and going shopping

18:00: Returning to Fudan University

18:30 - 17:30: Dining at 3rd Floor, Danyuan (Professor) Restaurant

22. POST-CONFERENCE TOUR

There are two routes for post-conference:

22 ~ 23 October, 2011

Route 1: Suzhou (蘇州) and Hangzhou (杭州)
(Recommended for the first visitors to Shanghai) and the schedule is primarily as follows:

22 October, 2011

- 6:30 Morning call, having breakfast and check-out
- 07: 30 Departing for Hangzhou City (杭州) at the Lobby of Baolong Hotel
- 09: 00 Boating in West Lake
- 11: 00 Lunch
- 12: 30 Touring Su Bank (苏堤, 俗称苏公堤)
- 14:30 Touring Tiger Running Spring (虎跑泉)
- 17:30 Having dinner
- 18:30 Driving for Suzhou City and checking-in

23 October, 2011:

- 07: 30 Morning call, having breakfast and check-out
- 08: 30 Touring Hanshan Temple (寒山寺)
- 11: 30 Lunch
- 12: 30 Touring Hu Mountain (虎丘) and No. 1 Silk Factory of Suzhou
- 16: 00 Back for Shanghai
- Time back to Shanghai: 18:00 – 18:30
- 18:30-19:30: Dining at Professor Dining Room (教授餐厅), 3rd Floor of Danyuan Restaurant (旦苑餐厅三楼)
(See page 5 for the address).

21 ~ 23 October, 2011

Route 2: Huang Mountain (黃山)
(Recommended for the frequent visitors to Shanghai) and the schedule is primarily as follows:

21 October, 2011:

- 06:30 Morning call, having breakfast and check-out
- 07: 30 Departing for Huang Mountain
- 13:30 Lunch
- 14:00 Touring Chunxi Old Street
- 17:30 Dinner and checking-in

22 October, 2011:

Climbing to the top of Huang Mountain and accommodate at the top of Huang Mountain.

23 October, 2011:

Watch Sunrise and then going down from



West Lake (杭州西湖)



Greeting Pine (迎客松)



Sunrise of Huang Mountain
(黃山日出)

Huang Mountain.

12: 00 Luch

13:00 Back for Shanghai

Time back to Shanghai: 18:00 – 18:30

18:30-19:30: Dining at Professor Dining Room (教授餐厅), 3rd Floor of Danyuan Restaurant (旦苑餐厅三楼) (See page 5 for the address).

23. ENSURANCE

Please be sure to get oversea travel ensurance since the Organization Committee does not cover any ensurance for the participants and the accompanying persons.

24. INQUIRES

If you have any questions or problems about the arrangement of the conference schedule, please contact the cochairman and he will be glad to assist you.

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Scene of Shanghai



Scene of Fudan University