



第十八届中国科协年会第十二分会场

18th Annual Meeting of China Association for Science and Technology
12th Chapter Theme

大气雾霾及PM_{2.5}控制先进技术研讨会

Workshop on Atmospheric Haze and Advanced PM_{2.5} Control Technologies

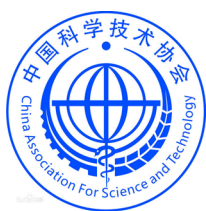


会议手册 Program

2016年9月
September, 2016

中国·西安
Xi'an·China

Organizer:	Chinese Society of Particuology
Co-organizer:	Chinese Association of Aerosol Science and Technology Institute of Earth Environment, Chinese Academy of Sciences Shaanxi Ceramic Society
Chairman:	<i>Junji CAO</i> (Professor, Vice President, Institute of Earth Environment, Chinese Academy of Sciences, China)
Chairman of Academic Committee:	<i>Yu HUANG</i> (Professor, Institute of Earth Environment, Chinese Academy of Sciences, China)
The Members:	<i>Daizhou ZHANG</i> (Professor, Prefectural University of Kumamoto, Japan)
	<i>Renjian ZHANG</i> (Professor, Institute of Atmospheric Physics of Chinese Academy of Sciences, China)
	<i>Shuncheng LEE</i> (Professor, The Hong Kong Polytechnic University, China)
	<i>Zhaolin GU</i> (Professor, Xi'an Jiaotong University, China)
	<i>Jing SUN</i> (Professor, Shanghai Institute of Ceramics, Chinese Academy of Sciences, China)
	<i>Zhenxing SHEN</i> (Professor, Xi'an Jiaotong University, China)



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Conference Venue: Jianguo Hotel Xian (Tel: 86-29-82598888)

Address: NO. 2, HuZhu Road, Beilin District, Xi'an City, Shaanxi Province, China

Traffic: About 45 km from Xi 'an Xianyang international airport, about 60 minutes taking taxi. There is shuttle bus commute from Xianyang Airport to Jianguo Hotel About 5.5 km from the railway station, about 15 ~ 20 minutes taking taxi.

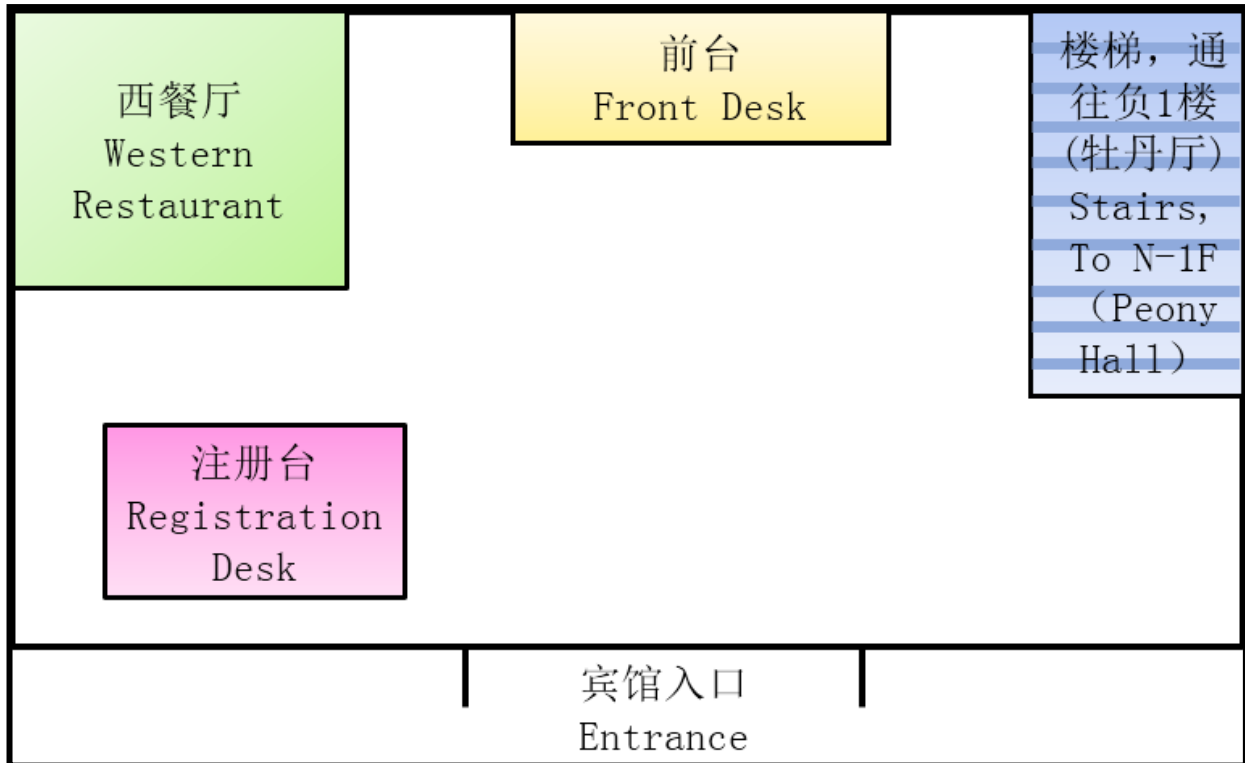
Contact: Yanfeng LU (IEECAS)

Tel: 13186076120

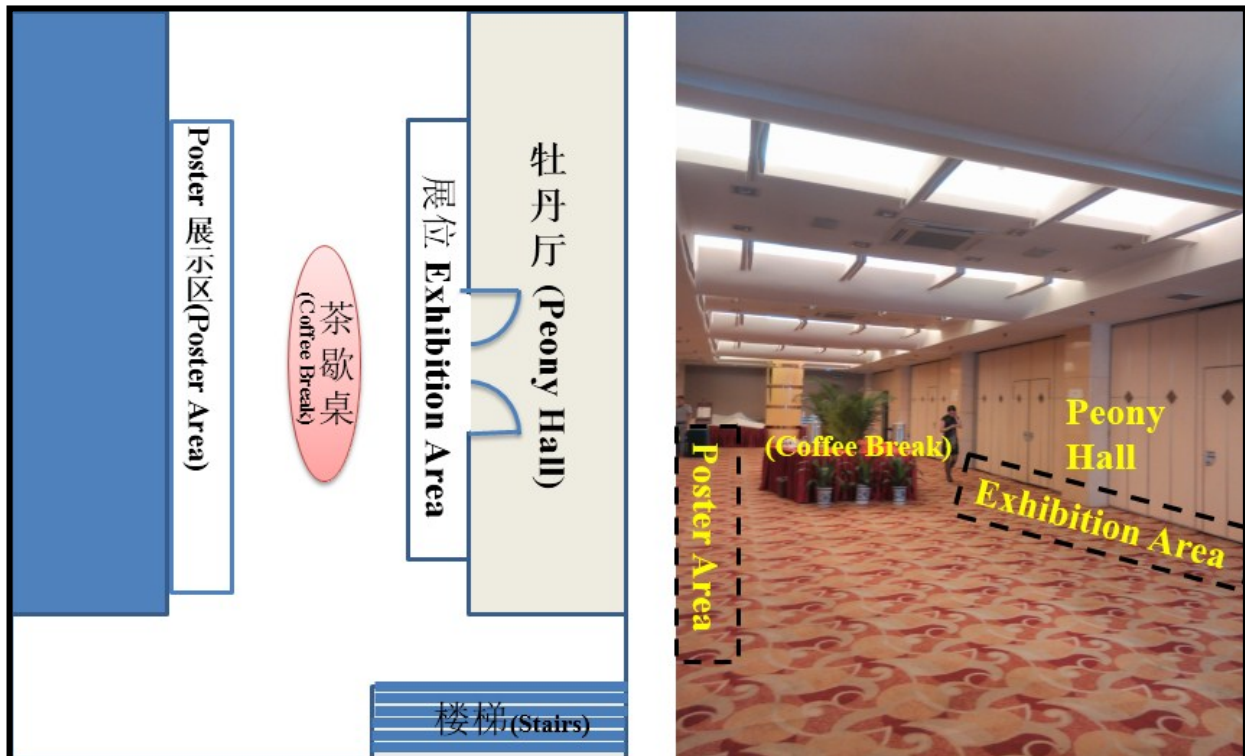


Conference Hall Sketch

Lobby 1F



Conference Venue N-1F



Program at a glance

Time	Subject	Location
FRIDAY, September 23, 2016		
13:30 - 18:00	Registration at the Lobby of Hotel	Jianguo Hotel
SATURDAY, September 24, 2016		
8:00 - 18:00	Registration at the Lobby of Hotel	Jianguo Hotel
6:30	Breakfast	Jianguo Hotel
8:00 - 12:00	Opening Ceremony of Conference	ShaanXi Hotel (Pick up from Jianguo Hotel at 7:30)
12:00 - 13:45	Lunch	Justine (western restaurant)
13:45 - 14:00	Opening Ceremony of 12 th Chapter Theme	Peony Hall
14:00 - 15:30	Plenary Session	Peony Hall
15:30 - 16:30	Poster and Tea Break	Peony Hall
16:30 - 18:00	Oral Presentations	Peony Hall
18:00	Dinner	Changle Hall
SUNDAY, September 25, 2016		
6:30	Breakfast	Jianguo Hotel
8:00 - 9:30	Plenary Session	Peony Hall
9:30 - 10:00	Take Group Photo and Tea Break	Jianguo Hotel
10:00 - 12:00	Oral Presentations	Peony Hall
12:00 - 14:00	Lunch	Justine (western restaurant)
14:00 - 15:00	Plenary Session	Peony Hall
15:00 - 15:15	Closing Ceremony	Peony Hall
16:00 - 18:00	Business Session	Peony Hall
18:00	Dinner	Justine (western restaurant)

18th Annual Meeting of China Association for Science and Technology

12th Chapter Theme Workshop on Atmospheric Haze and Advanced PM_{2.5} Control Technologies

Program

FRIDAY, September 23, 2016

13:00 - 18:00	Registration at the lobby of hotel
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SATURDAY, September 24, 2016

6:30	Breakfast
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8:00 - 18:00	Registration at the lobby of hotel
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8:00 –12:00	Opening Ceremony of Conference (Pick up from Jianguo Hotel at 7:30)
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12:30 - 13:45	Lunch
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13:45 - 14:00	Opening Remarks (Junji CAO, Daizhou ZHANG)
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14:00 - 15:30	Plenary Session
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Chair:	Junji CAO (Professor, Institute of Earth Environment, Chinese Academy of Sciences, China)
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	Daizhou ZHANG (Professor, Prefectural University of Kumamoto, Japan)
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14:00 - 14:30	Yasunobu IWASAKA (Professor, The University of Shiga Prefecture, Japan) “Long-range Transport of Dust Particle in North-East Asia Materials on Surface of Dust Particles”
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14:30 - 15:00	Zhaolin GU (Professor, Xi'an Jiaotong University, China) “Statistical Implication of PM Concentration Increase with Strong Fluctuation of Air Humidity Based on High-resolution Atmospheric Pollution Data Name”
15:00 - 15:30	Daizhou ZHANG (Professor, Prefectural University of Kumamoto, Japan) “Asian Dust Particles under Electron Microscopes-Aging, Mixing and Subsequences-”
15:30 - 16:30	<i>Poster and Tea Break</i>
16:30 - 18:00	Oral Presentations
Chair:	Zhaolin GU (Professor, Xi'an Jiaotong University, China)
	Yasunobu IWASAKA (Professor, The University of Shiga Prefecture, Japan)
16:30 - 16:45	Guidong YANG (Associate Professor, Xi'an Jiaotong University, China) “Creation of Three-dimensionally Ordered Macroporous Fe ³⁺ -doped TiO ₂ with Excellent Visible-Light-Driven Photocatalytic Activity”
16:45 - 17:00	Shengrui TONG (Associate Professor, Institute of Chemistry, Chinese Academy of Sciences, China) “Correlations of Measured Nitrous Acid (HONO) Concentrations with PM _{2.5} and Haze in Beijing”
17:00 - 17:15	Huige DI (Associate Professor, Xi'an University of Technology, China) “Detection and Analysis of Aerosol Micro-physics Properties Using Multi-Wavelength Polarization Lidar”
17:15 - 17:30	Qizhao WANG (Associate Professor, Northwest Normal University, China) “Preparation of Semiconductor Materials with Highly-Efficient Photocatalytic Activity”
17:30 - 17:45	Yufei ZHANG (Postdoctor, Institute of Earth Environment, Chinese Academy of Sciences, China) “DFT Calculations and NO Adsorption Properties Study of Oxygen Vacancy-Induced Bi-based Photocatalysts”
17:45 - 18:00	Jiawei ZHANG (Graduate Student, Chung Yuan Christian University, China) “Study on Preparation of Lanthanum and Nitrogen Doped Modified Titanium Dioxide for Degradation of NO _x in Air”
18:00	<i>Dinner</i>

SUNDAY, September 25, 2016	
6:30	<i>Breakfast</i>
8:00 - 9:30	Plenary Session
Chair:	Shiro HATAKEYAMA (Professor, Center for Environmental Science in Saitama, Japan)
	Jing SUN (Professor, Shanghai Institute of Ceramics, Chinese Academy of Sciences China)
8:00 – 8:30	Kouji ARIZONO (Professor, Prefectural University of Kumamoto, Japan) “Health Effects by Neonicotinoid Insecticides”
8:30 - 9:00	Taicheng AN (Professor, Guangdong University of Technology, China) “Pollution Control and Risk Attenuation of Benzene Homologues from Industrial Processes by Photocatalysis Integrated Technique”
9:00 - 9:30	Jing SUN (Professor, Shanghai Institute of Ceramics, Chinese Academy of Sciences, China) “Investigation on the Photocatalytic Degradation of Haze-causing Precursor Pollutants”
9:30 – 10:00	<i>Take Group Photo and Tea Break</i>
10:00 - 12:00	Oral Presentations
Chair:	Kazuaki KAWAMOTO (Professor, Nagasaki University, Japan)
	Yu HUANG (Professor, Institute of Earth Environment, Chinese Academy of Sciences, China)
10:00 - 10:15	Yu HAUNG (Professor, Institute of Earth Environment, Chinese Academy of Sciences, China) “Nanomaterial-Based Photocatalysis Technique for Air Pollution Control”
10:15 - 10:30	Kazuaki KAWAMOTO (Professor, Nagasaki University, Japan) “Aerosol-Cloud Interaction and Cloud Vertical Structure From passive to active sensing”
10:30 - 10:45	Kotaro MURATA (Postdoctor, Fudan University, China) “Brief Introduction of Bacterial Aerosol Research in Southwestern Japan -Future Research Activities in Japan and China”

10:45 - 11:00	Tomoko KOJIMA (Associate professor, Kumamoto University, Japan) “Chemistry and Mineralogy of Inhalable Particulate Matter in Kumamoto, Southwestern Japan”
11:00 - 11:15	Satoshi FUKUSHIMA (Assistant, Prefectural University of Kumamoto, Japan) “Evolution of Aerosols near the Surface at AERU on the Southwestern Japan Coast in 2010-2015”
11:15 - 11:30	Wei HU (Student, Prefectural University of Kumamoto, Japan) “Insights into the Sources of Rainwater Bacteria in Southwestern Japan”
11:30 - 11:45	Yue ZHANG (Student, HuaZhong Agricultural University, China) “Evaluation of a Virtual Cyclone-based Bioaerosol Sampler in Laboratory and Field Environments”
11:45 - 12:00	Shinichiro FUKUYAMA (Student, Prefectural University of Kumamoto, Japan) “Evaluating The Potential of DNA Damage Caused by Airborne Particulate Matter by Introduction of Target and Hit Theory-a Case Study at Southwestern Coast of Kyushu in 2014-”
12:00 - 14:00	<i>Lunch</i>
14:00 - 15:00	Plenary Presentations
Chair:	Kouji ARIZONO (Professor, Prefectural University of Kumamoto, Japan)
	Taicheng AN(Professor, Guangdong University of Technology, China)
14:00 - 14:30	Shuncheng LEE (Professor, Hong Kong Polytechnic University, China) (will be presented by Wing Kei HO, Associate Professor, The Education University of Hong Kong) “Materials and Nanotechnology for Air Pollution Control ”
14:30 - 15:00	Shiro HATAKEYAMA (Professor, Center for Environmental Science in Saitama, Japan) “Measurements of Air Pollutants on Islands and on the top of Mt. Fuji”
15:00 - 15:15	<i>Closing Ceremony</i>
Chair:	Junji CAO (Professor, Vice President, Institute of Earth Environment, Chinese Academy of Sciences, China)
16:00 - 18:00	Business Session (Invited)

Poster

NO.	Title	Author	Affiliation
P-01	Protein Content in Airborne Particles: Method Development at AERL	Ayumi NAGANUMA	Prefectural University of Kumamoto
P-02	Insights into the Sources of Rainwater Bacteria in Southwestern Japan	Wei HU	Prefectural University of Kumamoto
P-03	Evaluating The Potential of DNA Damage Caused by Airborne Particulate Matter by Introduction of Target and Hit Theory - a Case Study at Southwestern Coast of Kyushu in 2014-	Shinichiro FUKUYAMA	Prefectural University of Kumamoto
P-04	Viability of Airborne Bacteria in Seawater: Case Studies at Amakusa	Rin TOMISAKI	Prefectural University of Kumamoto
P-05	Morphology of Individual Particles Observed at Southwestern Coast of Japan in Spring 2016	Makiko NISHI	Prefectural University of Kumamoto
P-06	Artificially-Prepared Dust Particles under Electron Microscopes: Cases of Tengger Desert	Natsuo MURAKAMI	Prefectural University of Kumamoto
P-07	Bi Modified Bi ₂ MoO ₆ Microspheres by Photo-reduction with Enhanced Visible Light Photocatalytic Activity for Degradation of NO _x	Huichi CHUANG	Chung Yuan Christian University
P-08	Nitrogen-doped Carbon Quantum Dots Decorated ZnSn(OH) ₆ Nanocomposite with Enhanced Visible Light Photocatalytic Oxidation Activity for NO Removal	Jinjie HE	Chung Yuan Christian University
P-09	Enhanced Photocatalytic Removal of NO over the pCN/TiO ₂ Heterojunction Film: Facile Synthesis, Photoinduced Hydrophilicity and Excellent Biocompatibility	Pengge WANG	Institute of Earth Environment; Chinese Academy of Sciences
P-10	Role of Water Clusters in the Reaction of the Simplest Criegee Intermediate CH ₂ OO with Water Vapour	Long CHEN	Institute of Earth Environment; Chinese Academy of Sciences
P-11	Amine Functionalized Activated Carbons for Efficient Indoor Formaldehyde Removal: Synthesis, Characterizations and Synergy effect Study	Dan GUO	Institute of Earth Environment; Chinese Academy of Sciences
P-12	Depth-degradation of Formaldehyde by Nanocrystalline (MnCe)O _x with Supported Al ₂ O ₃ at Room Temperature	Haiwei LI	Institute of Earth Environment; Chinese Academy of Sciences
P-13	Efficient Removal of NO in Air with BiOI Calcined Photocatalyst under Visible Light Irradiation	Wei WANG	Institute of Earth Environment; Chinese Academy of Sciences

Main Participants

(By last name alphabetically, in no particular order)

Last Name	First Name	Affiliation	Title
AI	Zihui	Central China Normal University	Professor
AN	Taicheng	Guangdong University of Technology	Professor
ARIZONO	Kouji	Prefectural University of Kumamoto	Professor
CAO	Xuemei	Central China Normal University	Postgraduate
CAO	Junji	Institute of Earth Environment, Chinese Academy of Sciences	Professor
CAO	Lianfang	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
CHANG	Huiqi	Chung Yuan Christian University	Postgraduate
CHEN	Yi	Institute of Chemistry, Chinese Academy of Sciences	Doctor
CHEN	Shang	Central China Normal University	Postgraduate
CHEN	Meijuan	Xi'an Jiaotong University	Lecturer
CHEN	Long	Institute of Earth Environment, Chinese Academy of Sciences	Postdoctor
CHENG	Yan	Xi'an Jiaotong University	Associate Professor
DI	Huige	Xi'an University of Technology	Associate Professor
DING	Xing	Huazhong Agricultural University	Lecturer
DU	Xujia	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
FUKUSHIMA	Satoshi	Prefectural University of Kumamoto	Assistant
FUKUYAMA	Shinichiro	Prefectural University of Kumamoto	Student(M2)
GAO	Yunxia	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
GU	Zhaolin	Xi'an Jiaotong University	Professor
GUO	Xiurui	Beijing University of Technology	Associate Professor
GUO	Dan	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
HAN	Xiuzhi	Chinese Society of Particuology	

Main Participants

(By last name alphabetically, in no particular order)

Last Name	First Name	Affiliation	Title
HATAKEYAMA	Shiro	Center for Environmental Science in Saitama	Professor
HAUNG	Yu	Institute of Earth Environment, Chinese Academy of Sciences	Professor
HE	Jinjie	Chung Yuan Christian University	Postgraduate
HO	WingKei	The Education University of Hong Kong	Associate Professor
HU	Wei	Prefectural University of Kumamoto	Student(D2)
HUA	Dengxin	Xi'an University of Technology	Professor
HUANG	Tingting	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
IWASAKA	Yasunobu	The University of Shiga Prefecture	Professor
JI	Hezhe	Price management of Japan Co.,Ltd	
KANG	Fei	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
KAWAMOTO	Kazuaki	Nagasaki University	Professor
KOJIMA	Tomoko	Kumamoto University	Associate Professor
LEE	Shuncheng	the Hong Kong Polytechnic University	Professor
LI	Haixia	Taiyuan University of Technology	
LI	Rui	Taiyuan University of Technology	Doctor
LI	Bowei	Institute of Earth Environment, Chinese Academy of Sciences	Postgraduate
LIU	Jianxin	Taiyuan University of Technology	Doctor
LIU	Yan	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
LU	Yanfeng	Institute of Earth Environment, Chinese Academy of Sciences	Doctor
MENG	Yong	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
MURAKAMI	Natsuo	Prefectural University of Kumamoto	Student(B4)

Main Participants

(By last name alphabetically, in no particular order)

Last Name	First Name	Affiliation	Title
MURATA	Kotaro	Fudan University	Postdoctor
NAGANUMA	Ayumi	Prefectural University of Kumamoto	Assistant
NISHI	Makiko	Prefectural University of Kumamoto	Student(B4)
NIU	Ruiyuan	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
PENG	Shiqi	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
SHEN	Jin	Guangdong Environmental Monitoring Center	Engineer
SHEN	Zhenxing	Xi'an Jiaotong University	Professor
SHIMANAKA	Ayaka	Kumamoto University	Student(B4)
SUN	Jing	Shanghai Institute of Ceramics, Chinese Academy of Sciences	Professor
SUN	Jian	Xi'an Jiaotong University	Doctor
TOMISAKI	Rin	Prefectural University of Kumamoto	Student(B4)
TONG	Shengrui	Institute of Chemistry, Chinese Academy of Sciences	Associate Professor
WANG	Jingzhi	Shaanxi Normal University	Lecturer
WANG	Miaomiao	Shaanxi Normal University	Postgraduate
WANG	Xiaoping	Guangzhou Institute of Geochemistry, Chinese Academy of Sciences	Postdoctor
WANG	Qizhao	Northwest Normal University	Associate Professor
WANG	Wei	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
WANG	Liqin	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
WANG	Zhenyu	Institute of Earth Environment, Chinese Academy of Sciences	Doctor
WANG	Pengge	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
WANG	Wenxue	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
XIANG	Rongbiao	Huazhong Agricultural University	Associate Professor
XIE	Xiaofeng	Shanghai Institute of Ceramics, Chinese Academy of Sciences	Professor
XU	Ruihong	Conservation Institution, Dunhuang Academy	Research Assistant

Main Participants

(By last name alphabetically, in no particular order)

Last Name	First Name	Affiliation	Title
YAN	Li	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
YANG	Xianglong	Huazhong Agricultural University	
YANG	Guidong	Xi'an Jiaotong University	Associate Professor
YAO	Jie	Institute of Earth Environment, Chinese Academy of Sciences	Postgraduate
YE	Siqi	Guangdong Environmental Monitoring Center	
YUAN	Rui	The environmental science research institute of chongqing	Engineer
YUE	Dingli	State Environmental Protection Key Laboratory of Regional Air Quality Monitoring	Senior Engineer
ZHANG	Daizhou	Prefectural University of Kumamoto	Professor
ZHANG	Yafei	Shaanxi Normal University	Postgraduate
ZHANG	Jiawei	Chung Yuan Christian University	Postgraduate
ZHANG	Qian	Xi'an Jiaotong University	Doctor
ZHANG	Shaowei	Henan Vocational College of Agriculture	Associate Professor
ZHANG	Yongyong	Xi'an High Technology Institute	Doctor
ZHANG	Yue	Huazhong Agricultural University	Postgraduate
ZHANG	Tao	State Environmental Protection Key Laboratory of Regional Air Quality Monitoring	Senior Engineer
ZHANG	Qian	Institute of Earth Environment, Chinese Academy of Sciences	Postdoctor
ZHANG	Peng	Institute of Earth Environment, Chinese Academy of Sciences	Doctor
ZHANG	Chaofeng	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
ZHANG	Yufei	Institute of Earth Environment, Chinese Academy of Sciences	Postdoctor
ZHENG	Siyuan	Institute of Earth Environment, Chinese Academy of Sciences	Postgraduate
ZHOU	Yan	State Environmental Protection Key Laboratory of Regional Air Quality Monitoring	Senior Engineer
ZHU	Dandan	Institute of Earth Environment, Chinese Academy of Sciences	Research Assistant
ZHU	Gangqiang	Shaanxi Normal University	Professor
ZONG	Zheng	Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences	Doctor

Travel Guides



Xi'an Bell Tower

The Bell Tower, a classical building with carved beams and painted rafters, has been served as the symbol of Xi'an. It stands in the center of the downtown area where the north street, the south street, the west street and the east street meet.

Opening hours: 08:00—18:00

Ticket price: 35 RMB



Big Wild Goose Pagoda (Dayanta)

The Big Wild Goose Pagoda is a Buddhist pagoda built in 652 AD during the Tang Dynasty.

Opening hours: 08:00—17:30

Ticket price: 30 RMB

Shaanxi History Museum

Shaanxi History Museum is the first huge state museum with modern facilities in China, and given the reputation of "bright pearl of ancient city, treasure house of China". The museum shows a great deal of elegance and originality in style.

Opening hours: 09:00—17:00

Ticket price: Free



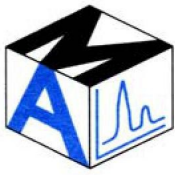
Xi'an Circumvallation

The Xi'an Circumvallation site is located at the center of Xi'an city with the form of a rectangular. The circumvallation, with its wall height of 12 meters, bottom width of 18 meters and top width of 15 meters, consists of changle gate to the east, anding gate to the west, yongning gate to the south and anyuan gate to the north.

Opening hours: 08:00—22:00/19:00

Ticket price: 54 RMB





Molecular Analysis

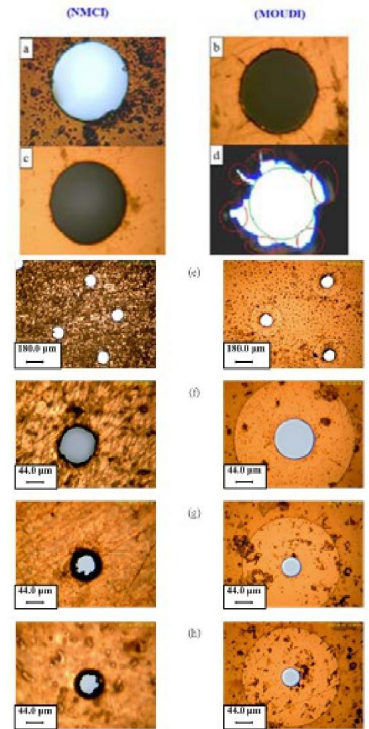
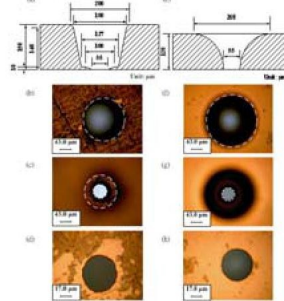
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Series 1000 微孔多阶冲击取样器

(NMCI, NCTU Micro-orifice Cascade Impactor)



传统机械钻孔喷嘴 专利设计喷嘴



特点

- 专利喷嘴设计 (7-10阶)
- 所有喷嘴可以用超声波洗净器清洗
- 可协助现有MODUI系统更换为专利喷嘴
- 每阶间隙均经过校调, 可获得高准确数据
- 具半自动与全自动型
- 具CE标志

采取同样烟的样本比较
MOUDI 与 NMCI
 第 7 至第 10 阶
MOUDI 与 NMCI 的喷嘴
 明显显示 **MOUDI 的喷嘴边缘**
 有明显的积垢生成
NMCI 则无相似状况
 经实验证明 **NMCI**
 第 7 到 10 阶的喷嘴可用
 超声波洗净器清洗 (1hr)
MOUDI 的喷嘴则会破损 (仅 1 分钟)

Series 9000 在线PM2.5气溶胶及气体成份分析仪

PM 2.5 Aerosol/AMC Analyzer



空气中的污染气体利用吸收液流经奈米TiO₂涂布表面时, 将酸碱气体吸收, 此外经过半干式静电捕集器再结合离子色谱层析仪或 ICP-MSD, 用于酸碱气体或气溶胶成分的连续自动监测。

可结合现有不同的离子色谱层析仪或 ICP-MS 系统作为

- 研发与学术研究等
- 大气环境酸碱气体监测
- 烟囱及制程烟道气体排放监测
- 洁净室环境微污染控制制程监测

可同时测定 HF、CH₃COOH、HCl、HNO₂、HNO₃、SO₂、HCHO、H₃PO₄ 和 NH₃ 等酸碱及重金属成分

IAQ-Pro

悬浮微粒/气体/温度/湿度
室内空气质量监测器



本产品 IAQ-Pro 为现场显示型室内空气质量监测器
 可同时侦测并显示悬浮微粒/气体/温度/湿度读值
 并于屏幕上随时查阅该环境的及时资料与历史记录图谱



Molecular Analysis

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- > 超低的检测限 (1 pptv)
- > 无需样品制备，直接空气进样
- > 响应时间少于 100 毫秒
- > 测量速度快，在线监测
- > 可得到自由基浓度



技术指标	QMS300	TOF 1000	Qi-TOF
质量数范围	1-300amu	1 – 1000 amu, 可调	1 – 10000amu, 可调
分辨率	< 1 amu	>1500 m/dm	Up to 10000 m/dm
响应时间	100mS	100mS	100mS
检测极限	300 pptv	< 10 pptv	< 0.5 pptv
灵敏度		100 cps/ppb	4500 cps/ppb

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北京英格海德分析技术有限公司

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H5网址：<http://c.eqxiu.com/s/ZPTRcmKJ>

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CAS或**PM科学与技术**，或扫描下方二维码。

