

2014 China-Japan-Korea Joint Conference on Photocatalysis and its International Standards

May 24-26, 2014.

WuXi, China

◆主办单位

中国感光学会光催化专业委员会

Conference organizer:

Photocatalysis Industry Association of China

◆承办单位

无锡普睿生物环保科技有限公司
北京五谷祥云文化传媒有限公司
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Organizer:

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Domestic co-organizer:

Technical Institute of Physics and Chemistry, CAS
Standard & Quality Control Department, China Building Materials Federation
Technical Committee 194 on Industrial Ceramics of Standardization Administration of China
Wuxi Association for Science and Technology
Association of Wuxi City Binhu District Science and technology
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Tsinghua University
Huazhong University of Science and Technology

International co-organizer:

Photocatalysis Industry Association of Japan
Association of Korea Photocatalyst Industries

◆支持单位 Supported by

国家科技部

Ministry of science and technology of the people's Republic of China

目录

Table of Content

Oral presentation Program

Sunday Morning	1
Sunday Afternoon	
Monday Morning	
Monday Afternoon	
Abstracts	

Program

Sunday May 25, 2014, Morning

Location: Multifunctional Hall (1st Floor)

8:30-9:10 Opening Ceremony

换字体 Chair: **Zhensheng Zhao** (Technical Institute of Physics and Chemistry, CAS)

Chair: **Honggang Fu** (Heilongjiang University) 位置行不?

9:10-9:40 Keynote

Zhigang Zou (Nanjing University, China)

Materials for Photocatalytic Solar Fuel

9:40-10:10 Keynote

Wonyong Choi (Pohang Univ. of Sci. Technol. (POSTECH), Korea)

Comparison of UV and Visible Light Activities among Various Photocatalysts

10:10-10:30

Coffee Break

10:30-11:00 Invited talk

Koji Takeuchi (National Institute of Advanced Industrial Science and Technology, Japan)

Development of International Standards for Testing Photocatalytic Materials

11:00-11:30 Invited talk

Jinfang Zhi (Technical Institute of Physics and Chemistry, CAS, China)

A Wastewater Treatment System Fabricated by Combined TiO₂-zeolite Photocatalyst and Electrochemical Degradation and New ISO standards propose

12:00-13:00 Lunch

Sunday May 25, 2014, Afternoon

Chair : **Quan Xie** ([Dalian University of Technology](#))

14:00-14:30 Invited talk

Hexing Li (Shanghai Normal University, China)

Hierarchical Assembly of Photocatalysts with Enhanced Activity

14:30-15:00 Invited talk

Tai Kyu Lee (NANOPAC Co Ltd, Korea)

Activity Test of Visible light responding (VLR) Photocatalyst under Blue and Violet LED Irradiation with a FTIR ; Gaseous TCE

15:00-15:30 Invited talk

Tsutomu Hirakawa (National Institute of Advanced Industrial Science and Technology, Japan)

New Test Method for Determining of Photocatalytic activity on Semiconducting Photocatalytic Materials by Dissolved Oxygen Consumption

15:30-15:50

Fei Teng (Nanjing University of Information Science & Technology, China)

Surface Structure-dependent hydrogen production activity of Pt@CuO/TiO₂ by waters plitting

15:50-16:10

Coffee Break

Chair : **Wenxin Dai** ([Fuzhou University](#))

16:10-16:30

Jianqiang Yu (Qingdao University, China)

Photocatalytic Biofouling Prevention by Bi₂MoO₆ with Preferential Orientation under Visible-Light

16:30-16:50

Wen-Bin CAO (University of Science and Technology Beijing, China)

Large-scale production, properties and applications of nanocrystalline N-TiO₂ photocatalyst

16:50-17:10

Chien-Chen Wu (Eternal Chemical Co., Ltd., China)

Water-based Photocatalyst Coating

17:10-17:30

Yongli Li (Beijing University of Technology, China)

Seed-induced TiO₂ Mesoporous Crystal on 2D g-C₃N₄ Nanosheet with Dramatically Enhanced Photocatalytic Activity

17:30-17:50

Guoqing Zhang (Shunde Dowell Science & Technology Environmental Protection Engineering CO.LTD, Guangdong University of Technology, China)

Preparation and characterization of a novel WO₃/TiO₂ photocatalytic films

18:30-20:00

Banquet

Monday May 26, 2014, Morning

Location: Multifunctional Hall (1st Floor)

Chair : **Jinshu Wang** (Beijing University of Technology)

8:30-9:00 Invited talk

Wenzhong Wang (Shanghai Institute of Ceramics of the Chinese Academy of Sciences, China)

How to enhance the solar energy utilization: the case of Ce_{1-x}BixO_{2-δ}

9:00-9:30 Invited talk

Young Soo Kang (Sogang University in Seoul, S. Korea)

Fabrication and Characterization of Photocatalytic Devices for Artificial Photosynthesis

9:30-9:50

Shanhu Liu (Tokyo University of Science, Photocatalysis International Research Center)

Organic-titania monolith for self-cleaning coating with photoinduced self-healing ability

9:50-10:30

Liqiang Jing (Heilongjiang University, China)

Efficient Oxide-based Photocatalysis for Energy and Environment

10:10-10:30

Coffee Break

Chair :

10:30-10:50

Yanrong Zhang (Huazhong University of Science and Technology, China)

Heterogeneous photocatalysis degradation of toxic pollutants under visible-light irradiation

10:50-11:10

Jiguang Deng (Beijing University of Technology, China)

Three-dimensionally ordered macroporous InVO₄: Fabrication and excellent visible-light-driven photocatalytic performance for methylene blue degradation

11:10-11:30

Yanyan Yao (Purui Bio-Environmental Science and Technology Co., Ltd., China)

GB Standard Methods for Photocatalytic Performance Testing in Our Laboratory

11:30-11:50

Yajun Wang (China University of Petroleum (Beijing))

The Encapsulation of CdS into Carbon Nanotube for Photocorrosion Suppression

12:00-13:00

Lunch

Monday May 26, 2014, Afternoon

Chair : Yanrong Zhang

14:00-14:30 Invited talk

Yongfa Zhu (Tsinghua University, China)

Enhanced Photocatalytic Performance Induced by Surface Oxygen Vacancy

14:30-14:50

Jinshu Wang (Beijing University of Technology, China)

Photoelectronchemical Activity of TiO₂ nanomaterials

14:50-15:10

Liangzhuhan Wu (Technical Institute of Physics and Chemistry, CAS, China)

Low cost and Large-Area Fabrication of Flexible Self-Cleaning coating on polymeric Film based on Electroless-Plating-Like Solution Deposition Approach

15:10-15:30

Chubei Wang (Xinxiang University, China)

Strategically designed porous polysilicate acid/graphene composites for methylene blue removal

15:30-15:50

Coffee Break

Chair :

15:50-16:10

Wei Chen (Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences)

Novel Photocatalytic Nanomaterials for Energy and Environmental Applications

16:10-16:30

Sheng-Wei Lin (Eternal Chemical Co., Ltd. , China)

Self-cleaning coatings on coil industry application

16:30-16:50

Jinghai Liu (Inner Mongolia University for the Nationalities, China)

Assembled Multifunctional Photocatalysts for Improved Activity, Recycling Stability and Recovery

17:00-19:00

Supper

Abstracts