

Dec. 15 (Thursday)

Airport shuttle bus (time depending on your flight)

15:00~18:30 **Registration**

18:30~20:30 **Reception dinner**

Dec. 16 (Friday)

Chair **Prof. Jun Kubota**
9:30~ 9:45 **Opening ceremony**
 Speeches **Prof. Can Li**
 Prof. Jae Sung Lee

Session chairs: Prof. Jun Kubota and Dr. Lei Huang

Keynote Talk

9:45~10:30 KOR* Prof. Jae Sung Lee Nanostructured photoelectrodes for efficient photoelectrochemical water splitting using sunlight

10:30~10:45 KOR¹ Dr. Kanak P.S. Parmar M-doped BiVO₄ for PEC Hydrogen Production.

10:45~11:00 CHN¹ Prof. Hongxian Han Photocatalytic reduction of CO₂ on isolated surface Ti sites.

11:00~11:15 JPN¹ Prof. Kazuhiko Maeda SrNbO₂N as a water-splitting photoanode with a wide visible-light absorption band.

11:15~11:30 KOR² Hwichan Jun Anodic hematite photoanode for efficient photoelectrochemical water splitting.

11:30~11:45 CHN² Jingying Shi Fast and facile microwave-assisted hydrothermal synthesis of perovskite NaTaO₃ nanocubes and photocatalytic performance for overall water splitting

11:45~12:00 JPN² Dr. Daoai Wang Preparation of Ta₃N₅ photocatalyst with core-shell structures for water splitting.

12:00~13:30 **Lunch (Poster)**

Session chairs: Prof. Kazuhiko Maeda and Dr. Ganesan Magesh

13:30~13:45 JPN³ Xuwang Lu Potential change study at novel metal particles on oxynitride photocatalysts by IR spectroscopy using CO as a probe molecule.

13:45~14:00 KOR³ Gang Hong Bae N-doped carbon as a support of low temperature of fuel cell.

14:00~14:15 CHN³ Xin Zhou Theoretical investigation on the mechanism of photocatalytic oxygen evolution on iridium oxide clusters.

14:15~14:30 JPN⁴ JaeHong Kim Investigation of ZnS-modified copper gallium selenide thin film photoelectrodes for solar light driven water splitting.

14:30~14:45 KOR⁴ Eun Sun Kim Fabrication of CaFe₂O₄ / TaON junction photoanode and its photoelectrochemical performances.

14:45~15:00 CHN⁴ Xiuli Wang Pure-phase and mixed-phase TiO₂ photocatalysts studied with time-resolved photoluminescence spectroscopy.

15:00~15:15 JPN⁵ Takahiro Ikeda(Teranishi) Synthesis of nanoparticle cocatalysts for overall water splitting under visible light.

15:15~15:30 KOR⁵ Jae Young Kim Graphene and carbon nanotube composite conducting scaffold in iron oxide photoanode for photoelectrochemical water oxidation.

15:30~15:45 CHN⁵ Lei Huang The effect of co-catalysts loading on CdS nanocrystals for photocatalytic H₂ evolution: fluorescence spectroscopy study.

15:45~16:30 **Coffee Break (Poster)**

Session chairs: Prof. Hongxian Han and Dr. Kanak P.S. Parma

Keynote Talk

16:30~17:15 JPN* Prof. Kazunari Domen Non-oxide type composite photocatalysts for water splitting.

17:15~17:30 CHN⁶ Gang Liu Highly dispersed tungsten oxide over silica as photocatalyst for water splitting.

17:30~17:45 KOR⁶ Ji-Wook Jang Photocatalytic synthesis of pure and water-dispersible graphene mono nanosheets.

17:45~18:00 JPN⁶ Naoyuki Nishimura Photoelectrochemical properties of LaTiO₂N based porous electrodes.

19:00~21:00 **Dinner**

Dec. 17 (Saturday)

Session chairs: Prof. Masao Katayama and Dr. Gang Liu

- 9:00~ 9:15 KOR⁷ Dr. Ganesan Magesh Photoelectrochemical system for the conversion of carbon dioxide to fuels using visible light
- 9:15~ 9:30 JPN⁷ Su Su Khine Ma Co-catalysts promoted Ta₃N₅ as an efficient O₂ evolution photocatalyst in Z-scheme system (two-step water splitting system) without shuttle redox mediator under visible light
- 9:30~ 9:45 CHN⁷ Yi Ma Photocatalytic H₂ production on Pt/TiO₂-SO₄²⁻ with tuned surface-phase structures: enhancing activity and reducing CO formation.
- 9:45~10:00 KOR⁸ Jae Yul Kim TiO₂/SiO₂ mixed oxide in photocatalytic partial oxidation of dodecane for producing NO_x reductants.
- 10:00~10:15 JPN⁸ Anke Xiong Study on water splitting reaction using photocatalysts pasted on a flat glass plate.
- 10:15~10:30 CHN⁸ Fuyu Wen Photocatalytic H₂ evolution by a hybrid photocatalyst containing ZnS as light-harvester and [Fe₂S₂] as biomimetic hydrogenase.

10:30~11:15 Coffee Break (Poster)

Session chairs: Prof. Jingying Shi and Dr. Yanbo Li

- 11:15~11:30 JPN⁹ Prof. Masao Katayama Photocatalytic water splitting on SrTiO₃ with layered cocatalysts.
- 11:30~11:45 KOR⁹ Hyun Joon Kang Doping Effect of M-doped BiVO₄ (M=Mo, W) by Sol-Gel Method for Water Oxidation under Visible Light
- 11:45~12:00 CHN⁹ Donge Wang Photocatalytic water oxidation on BiVO₄ with electrocatalyst CoPi as an oxidation co-catalyst: essential relations between electrocatalyst and photocatalyst.

12:00~13:00 Lunch (Poster)

Session chairs: Prof. Xin Zhou and Prof. Tsutomu Minegishi

- 13:00~13:15 KOR¹⁰ Duck Hyun Youn Carbon-supported PtPb Intermetallic Compounds for Electrooxidation of Methyl Formate
- 13:15~13:30 CHN¹⁰ Xiang Wang Photocatalytic activity of the overall H₂O splitting on Ga₂O₃ enhanced by surface-phase junction.
- 13:30~13:45 JPN¹⁰ Dr. Yanbo Li Tantalum Nitride Nanorods for Photoelectrochemical Water Splitting.
- Keynote Talk*
- 13:45~14:30 CHN^{*} Prof. Can Li Photocatalytic hydrogen production by utilizing solar energy: roles of cocatalysts in photocatalysis.

14:30~14:40 Concluding remarks

Prof. Kazunari Domen

15:00~18:00 **Laboratory tour:** Domen-Kubota laboratory in the University of Tokyo by a tour bus.

18:30~20:30 Banquet

Dec. 18 (Sunday)

9:30~ 10:00 Principal investigator meeting

Airport shuttle bus (time depending on your flight)

Poster presentation

P1	CHN ¹¹	Yushuai Jia	La and Cr codoped Sr ₂ TiO ₄ /SrTiO ₃ heterojunction photocatalysts for H ₂ evolution.
P2	KOR ¹¹	Yeon Ho Kim	Aromatization of 2-methyl-2-butene.
P3	JPN ¹¹	Ryohji Ohnishi	Properties of nano-sized nitride catalysts for oxygen reduction reaction and study for the active sites.
P4	CHN ¹²	Jingfeng Han	Photoelectrochemical reduction of carbon dioxide over CuGa ₃ Se ₅ electrode.
P5	JPN ¹²	Taizo Yoshinaga	Synthesis of water oxidation cocatalysts for visible-light-driven overall water splitting.
P6	CHN ¹³	Rengui Li	The enhancement of visible light photocatalytic O ₂ evolution over CoOx/Sm ₂ Ti ₂ S ₂ O ₅ .
P7	JPN ¹³	Yeilin Ham	Effects of cocatalysts on oxygen evolution activity of carbon nitride photocatalysts.
P8	JPN ¹⁴	Dr. Peng Wang	Photoelectrochemical synthesis of methylcyclohexane from toluene and water using membrane electrode assemblies with Cu ₂ ZnSnS ₄ photocathodes
P9	CHN ¹⁴	Nan Wang	Synthesis and photoelectrochemical properties of nano/micro structured WO ₃ .
P10	JPN ¹⁵	Dr. Yosuke Moriya	Various post-treatments on (Oxy)nitride photocatalysts for water splitting aiming at enhancement of their performance.
