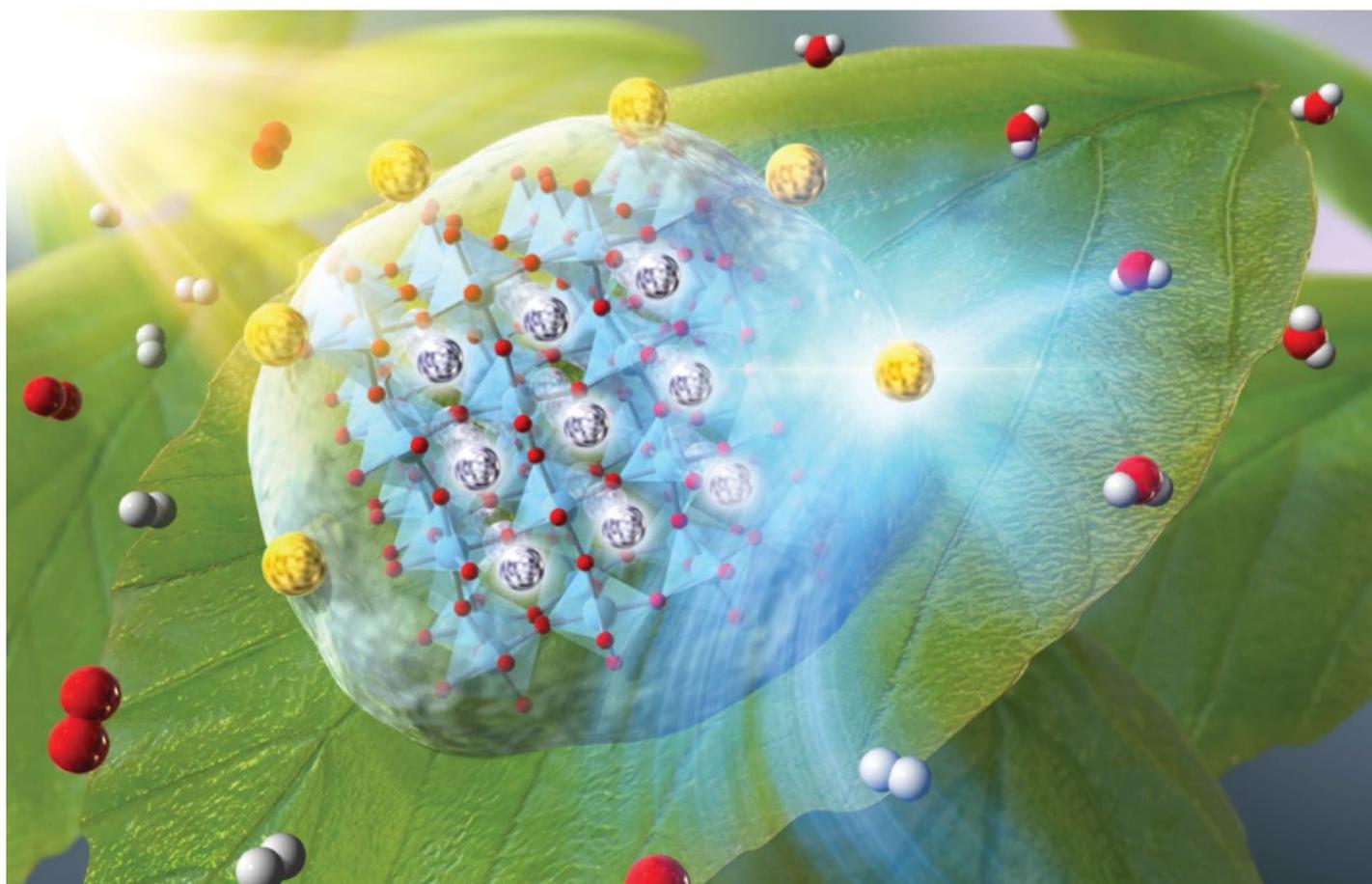




# The 2nd RIST International Symposium Carbon Value Science & Technology



Date: 9-12th March 2026

Organizer: Carbon Value Research Center,  
Research Institute for Science and Technology,  
Tokyo University of Science

Venue: Tokyo University of Science,  
Noda Campus, 6th Floor, No.7 building

## Cooperation

Grant-in-Aid for Transformative Research Areas(B) “Concerto Photocatalysis”



Consortium of All Nippon Artificial Photosynthesis Project for Living Earth  
(CanApple)



Adopting Sustainable Partnerships for Innovative Research Ecosystem/JST



The Japanese Photochemistry Association



Catalysis Society of Japan



The Electrochemical Society of Japan



The Ceramic Society of Japan

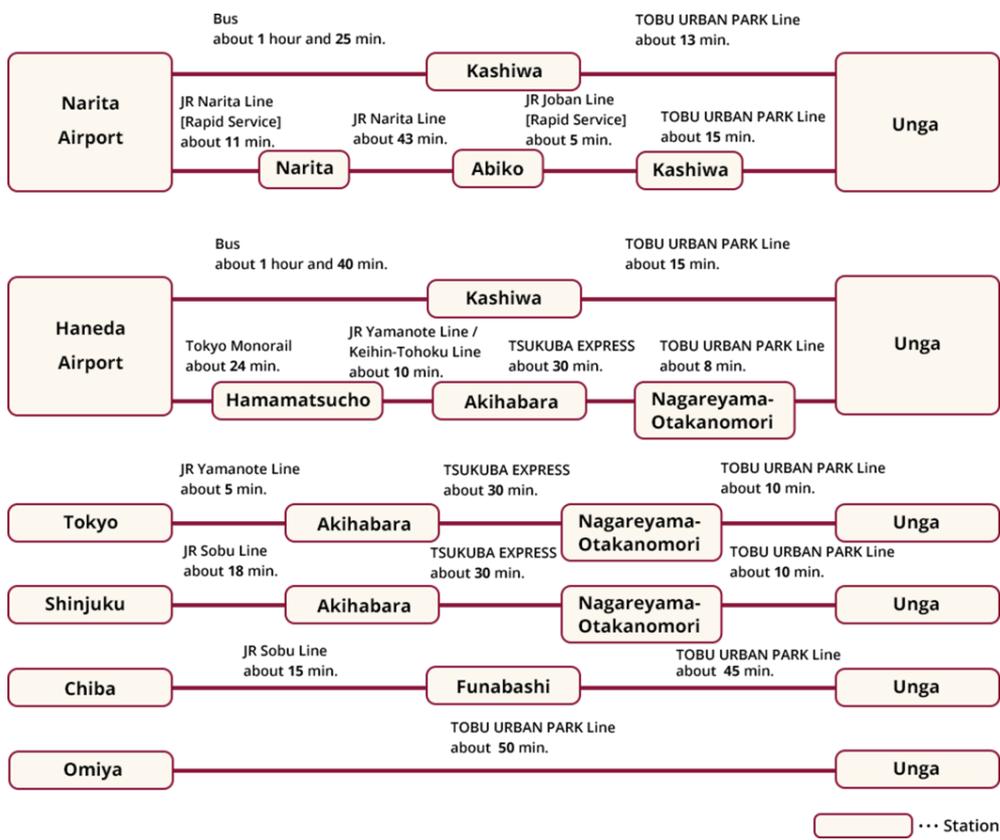
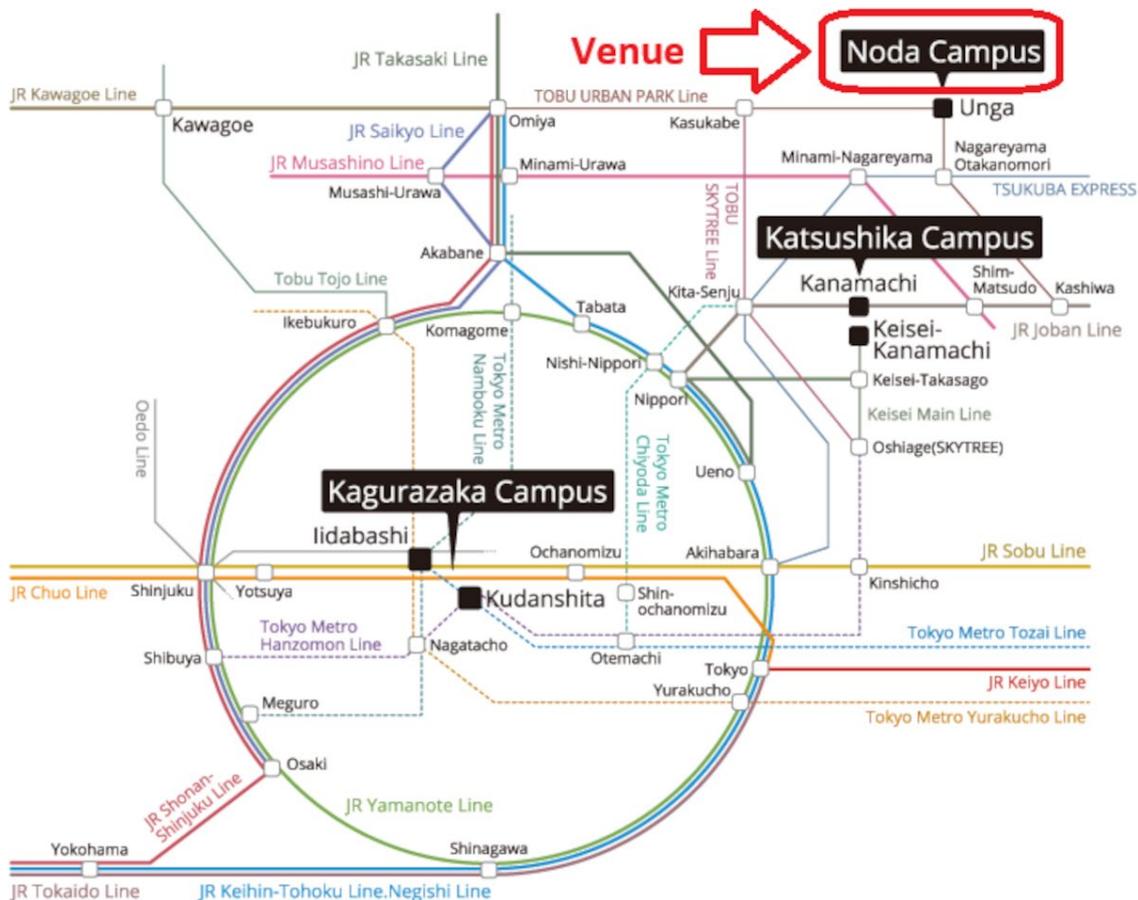


Chiba Convention Bureau and International Center (CCB-IC)



● Public Transportation

10 minutes-walk from Unga Station to the venue, accessible via TOBU URBAN PARK Line

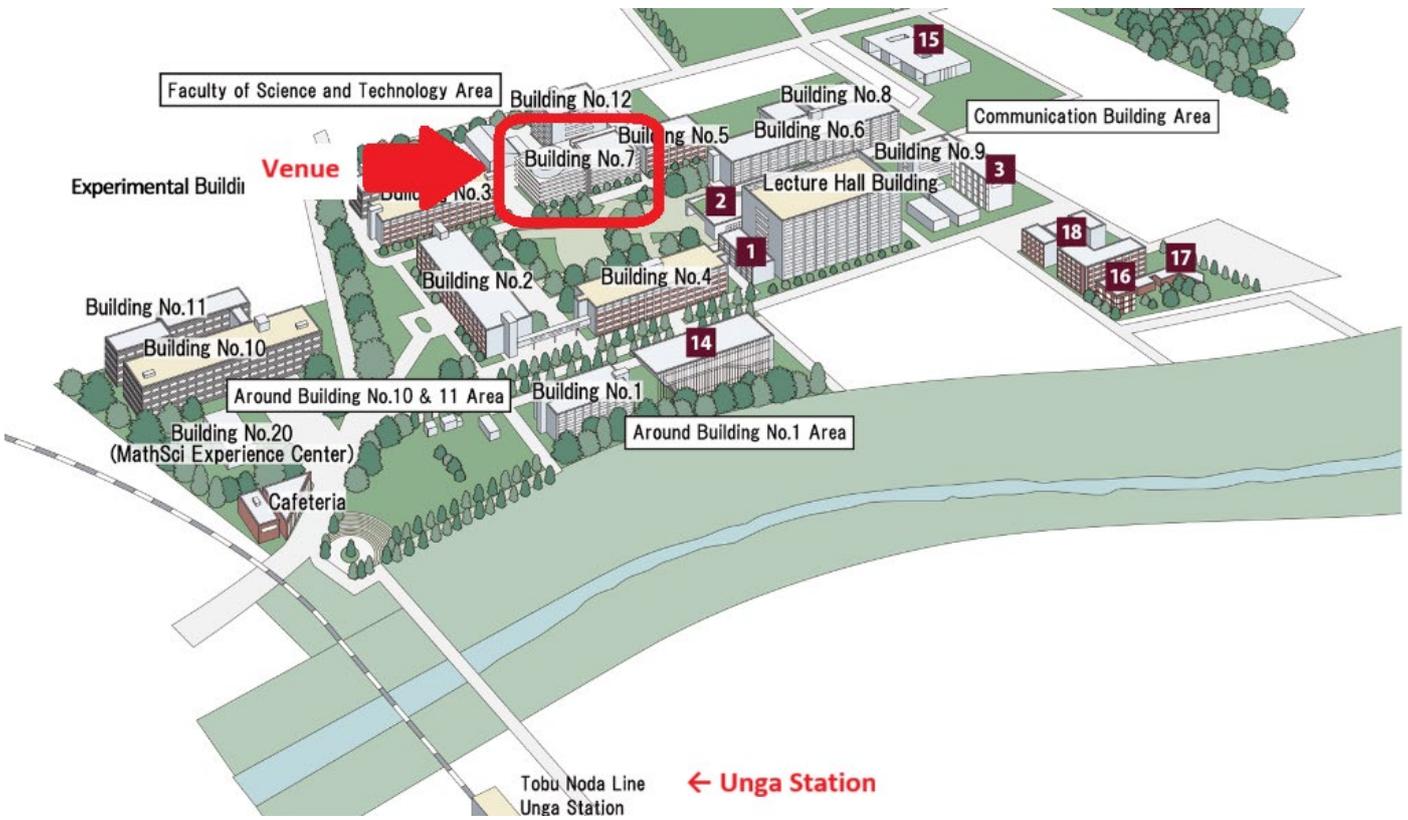


● Venue

Building No. 7, 6F

Tokyo University of Science, Noda Campus (Chiba Prefecture, JAPAN)

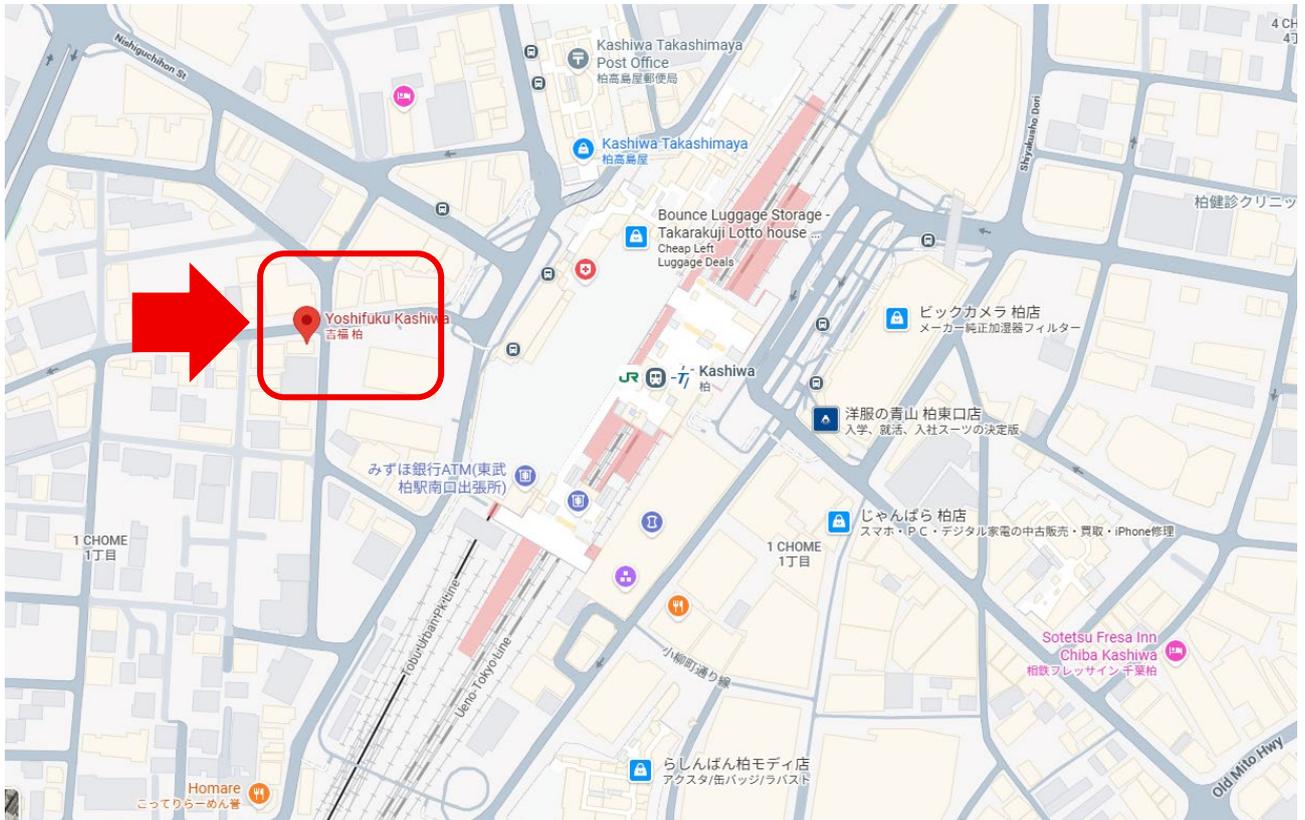
2641 Yamazaki, Noda-shi, Chiba Prefecture 278-8510, Japan



● Banquet

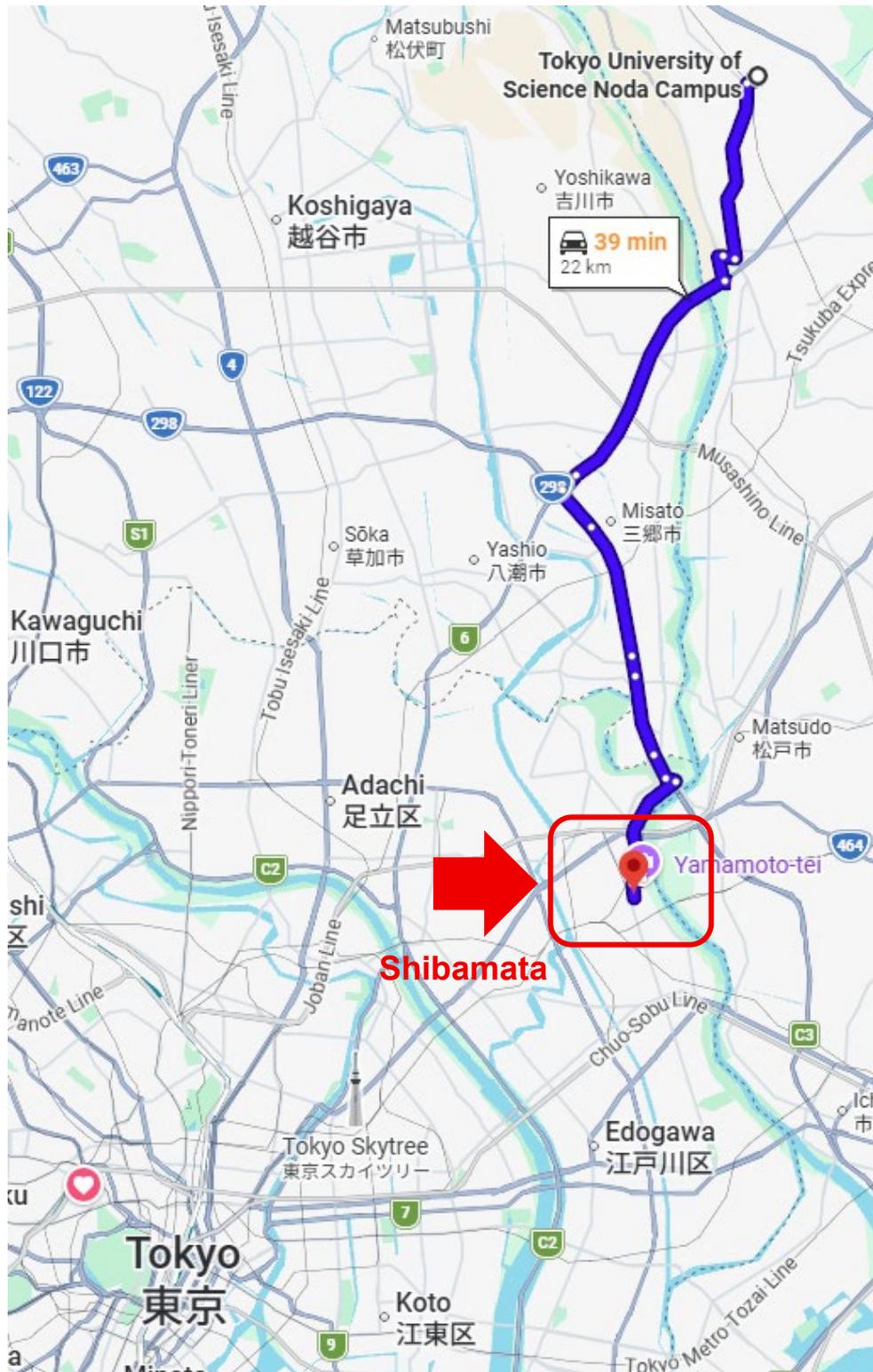
'Yoshifuku' at Kashiwa station

5 minutes-walk from West Exit at Kashiwa Station to Yoshifuku, accessible via TOBU URBAN PARK Line



- Excursion (Half day to Shibamata)

We will head to Shibamata by bus arranged by the secretariat.



9 March 2026	10 March 2026	11 March 2026	12 March 2026
Auditorium	Auditorium	Auditorium	Auditorium
8:30	Registration	Registration	Invite (AC: Maiko Nishibori)
9:00	Keynote (AP: Shane Ardo)	Invite (NM: Shintaro Ida)	Invite (AC: Shunsuke Nozawa)
9:30	Invite (AP: Yun Hau Ng)	Invite (NM: Yuichi Negishi)	Invite (AC: Hiroshi Onishi)
10:00	Invite (AP: Hisao Yoshida)	Invite (AP: Ji-Hyun Jang)	Invite (AC: Kazuhiko Seki)
10:30	Invite (AP: Tomoko Yoshida)	Invite (AP: Kazuhiro Sayama)	Oral (AC: Vikas Nandal)
11:00	Invite (AP: Takashi Hisatomi)	Invite (AP: Kazuhiko Maeda)	Invite (AP: Osamu Ishitani)
11:30	Invite (AP: Akihide Iwase)	Invite (AP: Hideki Kato)	Invite (AP: Sebastian Sprick)
12:00	Invite (AP: Qian Wang)	Invite (AP: Ryu Abe)	Invite (AP: Takeshi Morikawa)
12:30	Group Photo	Invite (AP: Wai-Yeung Wong)	Invite (AP: Akinobu Nakada)
13:00	Lunch Time	Invite (AP: Kenji Toda)	Oral (AP: Kosel Yamauchi)
13:30	Lunch Time	Lunch Time	Oral (AP: Mai Takashima)
14:00	Invite (ML: Mikiya Fujii)	Keynote (AP: Lianzhou Wang)	Closing Remarks
14:30	Invite (ML: Kenji Katayama)	Invite (AP: Yosuke Kageshima)	Lunch Time
14:30	Invite (GF: Roland Marschall)	Invite (AP: Rohini Bala Chandran)	Excursion
15:00	Invite (GF: Noritatsu Tsubaki)	Invite (AP: Chechia Hu)	
15:30	Invite (GF: Shigeo Satokawa)	Oral (AP: Megumi Okazaki)	
16:00	Invite (GF: Masaaki Kitano)	Coffee Break	
16:30	Coffee Break	Invite (IB: Shinichi Komaba)	
17:00	Invite (SC: Hiroshi Segawa)	Invite (IB: Atsuo Yamada)	
17:30	Invite (SC: Kazuhiro Takanabe)	Keynote (IB: Seung-Taek Myung)	
18:00	Invite (SC: Ayumi Ishii)	Invite (IB: YU Denis Yau Wai)	
18:30	Poster Preview	Invite (IB: Dominic Bresser)	
19:00	Poster	Invite (IB: Aishuak Konarov)	
19:30	(The same floor in the same building)	Oral (IB: Shinichi Kumakura)	
20:00		Oral (IB: Tomooki Hosaka)	
20:30		Oral (IB: Changhee Lee)	
21:00		Oral (IB: Zachary Gossage)	
21:30		Banquet	
22:00		(near Kashiwa station)	

**Chair**  
Tomoko Yoshida & Roland Marschall

**Chair**  
Yun Hau Ng & Rohini Bala Chandran

Poster award ceremony

**Presentation time**  
 Plenary Talk: 60 min  
 Invite: 15 min(Presentation)+5 min(Q&A)  
 Keynote: 20 min(Presentation)+5 min(Q&A)  
 Oral: 10 min(Presentation)+5 min(Q&A)

**Abbreviation of topics**  
 AP(Artificial photosynthesis and photocatalyst) GF(Green fuels and green NH<sub>3</sub>)  
 IB(Ion battery) NM(Nanomaterial)  
 SC(Perovskite solar cell and electrocatalyst)  
 AC(Advanced characterization) ML(Machine learning)

## Program (9th March, Monday)

Place: Auditorium on 6<sup>th</sup> floor at building No.7

Presenter (Underline)

Time	Name and affiliation Title	Page
15:50- 16:00	<b>Opening Remarks</b>	
	Chair: Akihiko Kudo	
16:00- 17:00	(Plenary Talk) <u>Kazunari Domen</u> <sup>1,2</sup> <sup>1</sup> Shinshu University (Japan) <sup>2</sup> The University of Tokyo (Japan) Photocatalytic Production of Solar Hydrogen and Fuels from Water	1
	Chair: Sebastian Sprick and Kazuhiro Takanabe	
17:00- 17:25	(Keynote) <u>Frank E. Osterloh</u> , Li Wang, Mahya Salmanion, Rajesh Kandel, William Hahn, Guodong Rao, Klaus van Benthem, R. David Britt University of California (USA) Improved Transition Metal Oxynitride Semiconductors for Solar Water Splitting Applications	3
17:25- 17:50	(Keynote) <u>Gabriele Centi</u> , V. Longo, C. Genovese, C. Ampelli, and Siglinda Perathoner University of Messina (Italy) Green fuels and ammonia through plasma-assisted processes	5
18:00- 18:25	(Keynote) <u>Seong-Ju Hwang</u> Yonsei University (Republic of Korea) Advanced design of 2D nanocatalysts via interface-and defect-engineering	7
19:00- 21:00	<b>Reception</b>  (The same floor in the same building)	

## Program (10th March, Tuesday)

Time	Name and affiliation Title	Page
Session: Artificial Photosynthesis (1) Chair: Frank Osterloh and Chechia Hu		
9:00-9:25	(Keynote) <u>Shane Ardo</u> UC Irvine (USA) Insights into causes of exceptional performance from Kudo Sensei's photocatalyst materials driving water splitting reactions	9
9:25-9:45	(Invite) <u>Yun Hau Ng</u> King Abdullah University of Science and Technology (Saudi Arabia) Photocatalytic Systems capable of Splitting Liquid and Atmospheric Water	15
9:45-10:05	(Invite) <u>Hisao Yoshida</u> Kyoto University (Japan) The Role of Cocatalysts in Photocatalytic Coupling Reactions	17
10:05- 10:25	(Invite) Muneaki Yamamoto <sup>1</sup> , Tetsuo Tanabe <sup>2</sup> , <u>Tomoko Yoshida</u> <sup>2</sup> <sup>1</sup> Institute of Materials and Systems for Sustainability, Nagoya University (Japan) <sup>2</sup> Graduate School of Engineering, Nagoya University (Japan) Comprehensive analysis of Ga <sub>2</sub> O <sub>3</sub> photocatalysts for CO <sub>2</sub> reduction with water	19
10:25- 10:45	(Invite) <u>Takashi Hisatomi</u> Shinshu University (Japan) Okayama University (Japan) Study on synthesis methods for long-wavelength photoresponsive GaN:ZnO solid solution for photocatalytic water splitting	21

## Program (10th March, Tuesday)

Time	Name and affiliation Title	Page
10:45- 11:05	(Invite) <u>Akihide Iwase</u> Meiji University (Japan) Materials design of metal oxide photocatalysts for visible-light water splitting	23
11:05- 11:25	(Invite) <u>Qian Wang</u> Nagoya University (Japan) Hybrid materials and systems for artificial photosynthesis	25
11:25- 13:30	<b>Group Photo</b>  <b>Lunch Time</b>	
Session: Machine Learning, Green Fuels & Ammonia Chair: Gabriele Centi and Osamu Ishitani		
13:30- 13:50	(Invite) <u>Mikiya Fujii</u> Nara Institute of Science and Technology (Japan) Inorganic Materials Design with Machine-Learning Techniques: Closed-Loop Generation, Reliable Learning, and Local LLMs	27
13:50- 14:10	(Invite) <u>Kenji Katayama</u> Chuo University (Japan) Material Optimization by Combination of Machine Learning and Analytical Data in the Development of Photocatalytic Materials	29
14:10- 14:30	(Invite) <u>Roland Marschall</u> University of Bayreuth (Germany) Photocatalytic N <sub>2</sub> reduction: Pitfalls, photocharging, and reactor design	31
14:30- 14:50	(Invite) <u>Noritatsu Tsubaki</u> University of Toyama (Japan) Powerful Catalysts Realizing New CO <sub>2</sub> Conversion Chemistry	33

## Program (10th March, Tuesday)

Time	Name and affiliation Title	Page
14:50-	(Invite) <u>Shigeo Satokawa</u>	35
15:10	Seikei University (Japan) ----- Carbon neutral liquid fuel production method	
15:10-	(Invite) <u>Masaaki Kitano</u>	37
15:30	Institute of Science Tokyo (Japan) ----- Anion-Defect Engineering for Highly Active Catalysts toward Green Ammonia Synthesis	
15:30-	<b>Coffee Break</b>	
16:00		
Session: Perovskite Solar Cell & Electrocatalyst		
Chair: Lianzhou Wang		
16:00-	(Invite) <u>Hiroshi Segawa</u>	39
16:20	The University of Tokyo (Japan) ----- Material Engineering toward High Performance Perovskite Solar Cells and Modules	
16:20-	(Invite) <u>Kazuhiro Takanabe</u>	41
16:40	The University of Tokyo (Japan) ----- What is the reactant for water splitting under buffered electrolyte?	
16:40-	(Invite) <u>Ayumi Ishii</u>	43
17:00	Waseda University (Japan) ----- Broadband Photon Management in Lanthanide-Doped Perovskites	
Chair: Hideki Kato and Akihide Iwase		
17:00-	<b>Poster Preview</b>	
19:00	<b>(Auditorium)</b>	
19:00-	<b>Poster</b>	
20:30	<b>(The same floor in the same building)</b>	

## Program (11th March, Wednesday)

Time	Name and affiliation Title	Page
Session: Nanomaterial & Artificial Photosynthesis (2) Chair: Seong-Ju Hwang and Akinobu Nakada		
9:00-9:20	(Invite) <u>Shintaro Ida</u> Kumamoto University (Japan) ----- Creation of Energy-Related Functional Materials Based on Nanosheets	45
9:20-9:40	(Invite) <u>Yuichi Negishi</u> Tohoku University (Japan) ----- Development of Atomically Precise Copper Nanoclusters for Electrochemical CO <sub>2</sub> Reduction Reactions	47
9:40-10:00	(Invite) <u>Ji-Hyun Jang</u> UNIST (Republic of Korea) ----- In-situ constructed S-scheme heterojunction between hematite and an oxygen-deficient double-perovskite co-catalyst for photoelectrochemical water splitting	49
10:00-10:20	(Invite) <u>Kazuhiro Sayama</u> AIST (Japan) ----- Economical artificial photosynthesis technology to produce H <sub>2</sub> and valuable chemicals	51
10:20-10:40	(Invite) <u>Kazuhiko Maeda</u> Institute of Science Tokyo (Japan) ----- Development of metastable, two-dimensional oxynitride photocatalysts through topochemical reactions	53
10:40-11:00	(Invite) <u>Hideki Kato</u> Tohoku University (Japan) ----- Modification of photocatalysts for Z-scheme water splitting	55
11:00-11:20	(Invite) <u>Ryu Abe</u> Kyoto University (Japan) ----- Boosting Z-scheme Water Splitting through Surface Engineering of Semiconductor Photocatalysts	57

## Program (11th March, Wednesday)

Time	Name and affiliation Title	Page
11:20- 11:40	(Invite) <u>Wai-Yeung Wong</u> The Hong Kong Polytechnic University (Hong Kong, P.R. China) ----- Metal-Acetylide Organic Frameworks: Synthesis, Characterization and Application Studies	59
11:40- 12:00	(Invite) <u>Kenji Toda</u> Niigata University (Japan) ----- Synthesis of Photocatalysts by the Water-Assisted Solid-State Reaction Method	61
12:00- 13:30	<b>Lunch Time</b>	
	Session: Artificial Photosynthesis (3) Chair: Shane Ardo and Ji-Hyun Jang	
13:30- 13:55	(Keynote) <u>Lianzhou Wang</u> The Hong Kong Polytechnic University (Hong Kong SAR China) ----- Semiconductor Photoelectrodes for Solar Chemical Production	11
13:55- 14:15	(Invite) <u>Yosuke Kageshima</u> , Hiromasa Nishikiori Shinshu University (Japan) ----- Design of $Cu_2Sn_xGe_{1-x}S_3$ Crystalline Particles for Sunlight-Driven Photoelectrochemical Hydrogen Production	63
14:15- 14:35	(Invite) <u>Rohini Bala Chandran</u> , Lusia Barrera, Rebecca Lentz, Zhaokai Lin University of Michigan (USA) ----- On the Promise of Photocatalysis for Solar Hydrogen Production: A Materials-to-Reactor Design Perspective	65
14:35- 14:55	(Invite) <u>Chechia Hu</u> National Taiwan University of Science and Technology (Taiwan) ----- Enhanced Photocatalytic Mineralization of LDPE via an Integrated MIL- 88B(Fe) MOF-Coated Membrane System	67

## Program (11th March, Wednesday)

Time	Name and affiliation Title	Page
14:55- 15:10	(General) <u>Megumi Okazaki</u> <sup>1</sup> , Zi Lang Goo <sup>2</sup> , Naoki Tarutani <sup>3</sup> , Takeshi Watanabe <sup>4</sup> , Shunsuke Nozawa <sup>5</sup> , Kunihisa Sugimoto <sup>2</sup> , Kiyofumi Katagiri <sup>3</sup> , Kazuhiko Maeda <sup>1</sup> <sup>1</sup> Institute of Science Tokyo (Japan) <sup>2</sup> Kindai University (Japan) <sup>3</sup> Hiroshima University (Japan) <sup>4</sup> Japan Synchrotron Radiation Research Institute (Japan) <sup>5</sup> High Energy Accelerator Research Organization (Japan)	100
Influence of pH buffer on photochemical water oxidation using transition-metal oxide nanoparticle catalysts		
15:10- 15:40	<b>Coffee Break</b>	
Session: Ion Battery Chair: Seung-Taek Myung and Shinichi Komaba		
15:40- 16:00	(Invite) <u>Shinichi Komaba</u> , Shinichi Kumakura, Tomoaki Hosaka, Zachary T. Gossage, Changhee Lee, Daisuke Igarashi, and Yuki Fujii Tokyo University of Science (Japan)	70
Sodium-Ion Batteries: A 20-Year Journey from Skepticism to Reality		
16:00- 16:20	(Invite) <u>Atsuo Yamada</u> , Tristram Jenkins The University of Tokyo (Japan)	72
An ultimately low-cost and sustainable battery material		
16:20- 16:45	(Keynote) <u>Seung-Taek Myung</u> Sejong University (Japan)	13
Mn-Rich Layered Cathode Materials for Lithium and Sodium Intercalation		
16:45- 17:05	(Invite) <u>Denis Y. W. Yu</u> National Institute for Materials Science (Japan)	74
Dual-ion battery capable of charge-discharge in a few minutes		

## Program (11th March, Wednesday)

Time	Name and affiliation Title	Page
17:05-	(Invite) Yixuan Guo <sup>1,2</sup> , Medina Jasarevic <sup>1,2</sup> , Zhen Chen <sup>1,2</sup> , Haipeng	76
17:25	Liang <sup>1,2</sup> , Leo Gräber <sup>1,2</sup> , <u>ODominic Bresser</u> <sup>1-3</sup> <sup>1</sup> Helmholtz Institute Ulm (Germany) <sup>2</sup> Karlsruhe Institute of Technology (Germany) <sup>3</sup> Ulm University (Germany)	
	Ionic polymers as versatile cell components in lithium and sodium batteries	
17:25-	(Invite) <u>Aishuak Konarov</u>	78
17:45	Nazarbayev University (Kazakhstan)	
	Optimizing Layered Oxide Cathodes: Structure, Stability, and Electrochemical Performance in SIBs	
17:45-	(General) <u>Shinichi Kumakura</u> , Yusuke Miura, Shinichi Komaba	101
18:00	Tokyo University of Science (Japan)	
	Multi-Scale Structural Insights into the Defect Chemistry of $\beta$ -NaMnO <sub>2</sub>	
18:00-	(General) <u>Tomooki Hosaka</u> , Yuki Fujii, Shinichi Komaba	102
18:15	Tokyo University of Science (Japan)	
	Data-Driven Development of Electrode Materials for Sodium-Ion Batteries	
18:15-	(General) <u>Changhee Lee</u> , Shinichi Kumakura, Tomooki Hosaka, Shinichi	103
18:30	Komaba Tokyo University of Science (Japan)	
	Toward Practical Application of P-Type Na <sub>2/3</sub> Ni <sub>1/3</sub> Mn <sub>2/3</sub> O <sub>2</sub> Cathodes in Sodium-ion Batteries	
18:30-	(General) <u>Zachary T. Gossage</u> , Teppei Furuichi, Tomooki Hosaka, Kei	104
18:45	Shibuya, Shinichi Komaba Tokyo University of Science (Japan)	
	Green Supercooled Electrolytes for Sodium Ion Batteries	
20:00- 22:00	<b>Banquet (near Kashiwa station)</b>	

## Program (12th March, Thursday)

Time	Name and affiliation Title	Page
Session: Advanced measurements Chair: Seung-Taek Myung and Shinichi Komaba		
8:30-8:50	(Invite) <u>Maiko Nishibori</u> , Kakeru Ninomiya SRIS, Tohoku University (Japan) ----- Advanced Soft X-ray Spectroscopy of Functional Materials at NanoTerasu -Bridging the Missing Link Between Electronic Structure and Atomic Networks-	80
8:50-9:10	(Invite) <u>Shunsuke Nozawa</u> <sup>1,2</sup> , Ryo Fukaya <sup>1,2</sup> , Shin-ichi Adachi <sup>1</sup> <sup>1</sup> High Energy Accelerator Research Organization (Japan) <sup>2</sup> SOKENDAI (Japan) ----- Visualizing Ultrafast Photochemical and Photocatalytic Reactions by Time-Resolved X-ray Techniques	82
9:10-9:30	(Invite) <u>Hiroshi Onishi</u> Kobe University (Japan) Institute for Molecular Science (Japan) ----- High-speed analysis of oxygen evolution kinetics in water using microamperometry	84
9:30-9:50	(Invite) M. Kaneko <sup>1</sup> , H. Yoshida <sup>2,3</sup> , K. Yamashita <sup>1</sup> , K. Domen <sup>4,5</sup> , <u>OK. Seki</u> <sup>6</sup> <sup>1</sup> Yokohama City University (Japan) <sup>2</sup> Mitsubishi Chemical Corporation (Japan) <sup>3</sup> ARPCHEM (Japan) <sup>4</sup> Shinshu University (Japan) <sup>5</sup> The University of Tokyo (Japan) <sup>6</sup> AIST (Japan) ----- Quantifying Optical and Charge-Carrier Recombination Losses in Particulate Photocatalysts	86
9:50-10:10	(Invite) <u>Akira Yamakata</u> Okayama University (Japan) ----- Defect Engineering From Recombination Centers to Functional Traps	88

## Program (12th March, Thursday)

Time	Name and affiliation Title	Page
10:10- 10:25	(General) <u>Vikas Nandal</u> <sup>1</sup> , Hiroki Iwaizumi <sup>2</sup> , Ryota Shoji <sup>2</sup> , Hiroaki Yoshida <sup>3</sup> , Hiroyuki Matsuzaki <sup>2</sup> , Takashi Hisatomi <sup>4</sup> , Kazunari Domen <sup>4</sup> , Kazuhiko Seki <sup>1</sup> <sup>1</sup> Global Zero Emission Research Center, AIST (Japan) <sup>2</sup> NMIJ, AIST (Japan) <sup>3</sup> ARPCChem (Japan) <sup>4</sup> Shinshu University (Japan) ----- Unveiling carrier dynamics and photophysical parameters of visible-light responsive oxysulfide photocatalysts	105
Session: Artificial Photosynthesis (4) Chair: Yun Hau Ng and Rohini Bala Chandran		
10:25- 10:45	(Invite) <u>Osamu Ishitani</u> ----- Hiroshima University (Japan) ----- Direct Photocatalytic Reduction of Low Concentration CO <sub>2</sub>	90
10:45- 11:05	(Invite) <u>R. Sebastian Sprick</u> ----- University of Strathclyde (United Kingdom) ----- Conjugated Polymers for Photocatalytic Hydrogen Production from Water and Carbon Dioxide Reduction	92
11:05- 11:25	(Invite) <u>Takeshi Morikawa</u> ----- Toyota Central R&D Labs., Inc. (Japan) ----- Artificial Photosynthesis using combinations of solid semiconductors and molecular metal complexes	94
11:25- 11:45	(Invite) <u>Akinobu Nakada</u> ----- Kyoto University (Japan) ----- Z-Schematic Photocatalysis via Phase-Migrating Electron Mediator in Biphasic Solutions	96
11:45- 12:05	(Invite) <u>Kosei Yamauchi</u> ----- Kyushu University (Japan) ----- Ultrafast Hydrogen Evolution from Water Promoted by Molecular Cobalt- NHC Catalysts	98

## Program (12th March, Thursday)

Time	Name and affiliation	Page
	Title	
12:05- 12:20	(General) Mai Takashima <sup>1</sup> , Hiroto Kusumine <sup>2</sup> <sup>1</sup> Tokyo University of Science (Japan) <sup>2</sup> Nagoya University (Japan) ----- Photocatalytic carbon dioxide reduction reaction by silver-loaded titania and its light intensity dependence	106
12:20- 12:50	Closing Remarks	
12:50- 13:30	Lunch Time	
13:30-	Excursion (Shibamata)	

## Poster Program(1)

- 10th March 17:00 – 19:00 Poster preview (2-minutes presentation)
- 10th March 19:00 – 20:30 Poster presentation
- 12th March 12:20 – 12:50 Poster award ceremony

Presenter (Underline)

★: Poster award candidates (only for students)

Poster Number	Name and affiliation Title	Page
★P1	<u>Shuhe</u> <u>Matsumura</u> , Ayumi Ishii Waseda University (Japan) ----- Enhanced Upconversion Luminescence in Lanthanide-based Hybrid Nanomaterials for Broadband Solar-light Utilization	107
★P2	<u>Woo Jin Noh</u> and Xiaoyan Jin University of Seoul (Republic of Korea) ----- Hydrogen evolution reaction activity enhancement of MoS <sub>2</sub> via interlayer coupling and electronic structure modulation	108
★P3	<u>Chaeyeon Jeon</u> and Xiaoyan Jin University of Seoul (Republic of Korea) ----- Anion-doped NiFe hydroxides supported on Ni foam for enhanced electrocatalytic oxygen evolution reaction	109
★P4	<u>Issa Onishi</u> , Keishiro Yui, Akihide Iwase, Hiromasa Kaneko Meiji University (Japan) ----- Activity prediction and design of cocatalysts for CO <sub>2</sub> reduction on NaTaO <sub>3</sub> :Ir,Ba photocatalysts using reaction-theory-based descriptors	110
★P5	<u>Akinari Saito</u> <sup>1</sup> , Ryoji Asahi <sup>2</sup> , Bunsho Ohtani <sup>3</sup> , Mai Takashima <sup>1</sup> <sup>1</sup> Tokyo University of Science (Japan) <sup>2</sup> Nagoya University (Japan) <sup>3</sup> Nonprofit organization touche NPO (Japan) ----- Prediction of photocatalytic activity based on energy-resolved distribution of electron traps	111

## Poster Program(2)

Poster Number	Name and affiliation Title	Page
P6	<p><u>Yi-Hao Chew</u><sup>1</sup>, Makoto Ogawa<sup>2</sup>, Hajime Suzuki<sup>2</sup>, Ryu Abe<sup>2</sup>, Akira Yamakata<sup>1</sup></p> <p><sup>1</sup>Okayama University (Japan) <sup>2</sup>Kyoto University (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Surface Modification Effects on Charge Carrier Dynamics in Bi<sub>4</sub>NbO<sub>8</sub>Cl Revealed by Ultrafast Spectroscopy</p>	112
★P7	<p><u>Haru Ikeda</u><sup>1</sup>, Yi-Hao Chew<sup>1</sup>, Yuchi Yamaguchi<sup>2</sup>, Akihiko Kudo<sup>2</sup>, Akira Yamakata<sup>1</sup></p> <p><sup>1</sup>Okayama University (Japan) <sup>2</sup>Tokyo University of Science (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Time-resolved spectroscopic observation of Ir-doped SrTiO<sub>3</sub> photocatalysts</p>	113
★P8	<p><u>Na Yang</u>, Yuta Nishina</p> <p>Okayama University (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Modified-cellulose nanofibers to improve the electrochemical property of solid state battery</p>	114
★P9	<p><u>Hitomi Nakazawa</u><sup>1</sup>, Daisuke Igarashi<sup>1</sup>, Satoshi Yasuno<sup>2</sup>, Shinichi Komaba<sup>1</sup></p> <p><sup>1</sup>Tokyo University of Science (Japan) <sup>2</sup>Japan Synchrotron Radiation Research Institute (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Dehydration Effect on Crystal Structure and Charge Compensation of Na<sub>2</sub>Cu[Fe(CN)<sub>6</sub>]</p>	115
★P10	<p><u>Yuki Fujii</u><sup>1</sup>, Naoki Rokuhira<sup>1</sup>, Tomooki Hosaka<sup>1</sup>, Changhee Lee<sup>1</sup>, Zachary Tyson Gossage<sup>1</sup>, Yasuhiro Toyoda<sup>2</sup>, Kazuma Gotoh<sup>2</sup>, Shinichi Komaba<sup>1</sup></p> <p><sup>1</sup>Tokyo University of Science (Japan) <sup>2</sup>JAIST (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>High-Capacity Hard Carbon as Sodium-ion Battery Negative Electrode Synthesized from Zinc Gluconate with Phosphoric Acid Addition</p>	116

## Poster Program(3)

Poster Number	Name and affiliation Title	Page
★P11	<u>Kei Shibuya</u> , Zachary T. Gossage, Shinichi Komaba Tokyo University of Science (Japan) ----- Rapid Tracking of Sodium Ion Concentration Gradient Formed on the Surface of Operating Battery Electrodes	117
★P12	<u>Aoto Koizumi</u> , Yuki Fujii, Changhee Lee, Zachary T. Gossage, and Shinichi Komaba Tokyo University of Science (Japan) ----- Lignin-Derived Hard Carbon with High Initial Coulombic Efficiency for Na-Ion Batteries	118
★P13	<u>Ayaka Mochizuki</u> , Tomooki Hosaka, Changhee Lee, Shinichi Kumakura, Shinichi Komaba Tokyo University of Science (Japan) ----- Potassium insertion mechanism into $K_2TiF_6$ for potassium ion batteries	119
★P14	<u>Mika Takemura</u> , Kodai Moriya, Sho Toriumi, Shinichi Kumakura, Shinichi Komaba <sup>1</sup> Tokyo University of Science (Japan) ----- Comparative study of O3-NaCoO <sub>2</sub> and P2-Na <sub>2/3</sub> CoO <sub>2</sub> electrodes under fair testing conditions	120
★P15	<u>Teppei Furuichi</u> , Nanako Ito, Tomooki Hosaka, Zachary Tyson Gossage, Shinichi Komaba Tokyo University of Science (Japan) ----- Highly concentrated urea-based electrolytes containing low melting point salts for lithium-ion batteries	121
★P16	<u>Sho Toriumi</u> , Shinichi Kumakura, Changhee Lee, Kodai Moriya, Shinichi Komaba Tokyo University of Science (Japan) ----- Synthetic Strategies of Layered Na[Ni <sub>0.3</sub> Mn <sub>0.3</sub> Fe <sub>0.4</sub> ]O <sub>2</sub> Positive Electrode Material toward Long-Life Na-ion Batteries	122

## Poster Program(4)

Poster Number	Name and affiliation Title	Page
★P17	<p><u>Shun Sugayama</u><sup>1</sup>, Changhee Lee<sup>1</sup>, Fumi Ariura<sup>2</sup>, G�r�me odillot<sup>3</sup>, Shinichi Komaba<sup>1</sup>  <sup>1</sup>Tokyo University of Science (Japan)  <sup>2</sup>Kyoto research park, Arkema (Japan)  <sup>3</sup>Arkema GRL (France)</p> <hr style="border-top: 1px dashed black;"/> <p>Development of ionic liquid based gel polymer electrolytes for Na-ion batteries</p>	123
★P18	<p><u>Shin Shinomiya</u>, Shinichi Kumakura, Zachary T. Gossage, and Shinichi Komaba Tokyo University of Science (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Systematic study of Li-rich layered oxides of Li[Li,Ni,Mn]O<sub>2</sub> for highcapacity Li-ion batteries</p>	124
P19	<p><u>Kritin Pirabul</u><sup>1</sup>, Yuki Fujii<sup>1</sup>, Zachary T. Gossage<sup>1</sup>, Hiroto Nishihara<sup>2,3</sup>, Shinichi Komaba<sup>1</sup>  <sup>1</sup>Tokyo University of Science (Japan)  <sup>2</sup>Institute of Multidisciplinary Research for Advanced Materials, Tohoku University (Japan)  <sup>3</sup>Advanced Institute for Materials Research (WPI-AIMR), Tohoku University (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Structure-Controlled Hard Carbon Composites via Confined Carbonization for High-Rate Sodium-Ion batteries</p>	125
★P20	<p><u>Monalisha Mahapatra</u>, Changhee Lee, Zachary T. Gossage, Shinichi Kumakura, Shinichi Komaba Tokyo University of Science (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>A Comprehensive Investigation into the Alkaline Earth Metal Doping on P2-type Na<sub>2/3</sub>Fe<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>2</sub> Cathode Materials for Sodium Ion Batteries.</p>	126

## Poster Program(5)

Poster Number	Name and affiliation Title	Page
★P21	<p><u>Shuwei Liu</u><sup>1</sup>, Ryosuke Nishikubo<sup>2</sup>, Megumi Okazaki<sup>1</sup>, Akinori Saeki<sup>2</sup>, Kazuhiko Maeda<sup>1</sup></p> <p><sup>1</sup>Institute of Science Tokyo (Japan) <sup>2</sup>Osaka University (Japan)</p> <hr/> <p>Crystal facet engineering of N,F co-doped TiO<sub>2</sub> for enhanced visible-light oxygen evolution</p>	127
★P22	<p><u>Yuanshuo Peng</u>, Haitao Wang, Qian Wang</p> <p>Nagoya University (Japan)</p> <hr/> <p>Decoration of dual cocatalysts on ultra-thin carbon nitride for efficient H<sub>2</sub>O<sub>2</sub> photosynthesis</p>	128
P23	<p><u>Tomiko M. Suzuki</u><sup>1</sup>, Takamasa Nonaka<sup>1</sup>, Takeshi Uyama<sup>1</sup>, Naonari Sakamoto<sup>1</sup>, Keita Sekizawa<sup>1</sup>, Yuichi Yamaguchi<sup>2,3</sup>, Akihiko Kudo<sup>2,3</sup>, Takeshi Morikawa<sup>1</sup></p> <p><sup>1</sup>Toyota Central R&amp;D Labs., Inc. (Japan) <sup>2</sup>Tokyo University of Science (Japan) <sup>3</sup>Carbon Value Research Center, Tokyo University of Science (Japan)</p> <hr/> <p><i>Operando</i> X-ray absorption spectroscopy of an ionic Co complex electron mediator in aqueous visible-light-driven Z-scheme CO<sub>2</sub> reduction photocatalysis</p>	129
★P24	<p><u>Makoto Ogawa</u><sup>1,2</sup>, Hajime Suzuki<sup>1,3</sup>, Yi-Hao Chew<sup>4</sup>, Osamu Tomita<sup>1</sup>, Akinobu Nakada<sup>1</sup>, Akira Yamakata<sup>4</sup>, Frank E. Osterloh<sup>2</sup>, Ryu Abe<sup>1</sup></p> <p><sup>1</sup>Kyoto University (Japan) <sup>2</sup>University of California (United States) <sup>3</sup>PRESTO (Japan) <sup>4</sup>Okayama University (Japan)</p> <hr/> <p>Surface Structure Modification of Layered Perovskite Oxychloride Bi<sub>4</sub>NbO<sub>8</sub>Cl for Improved Photocatalytic H<sub>2</sub> Evolution</p>	130

## Poster Program(6)

Poster Number	Name and affiliation Title	Page
★P25	<u>Itsuki Morita</u> <sup>1</sup> , Hiroki Mori <sup>2</sup> , Motohiro Yasui <sup>2</sup> , Qian Wang <sup>1</sup> <sup>1</sup> Nagoya University (Japan) <sup>2</sup> Brother Industries LTD. (Japan) ----- Influence of Light Intensity and Reaction Temperature on the Photocatalytic Water-Splitting Performance of Photocatalyst Sheets	131
★P26	<u>Shunta Makino</u> , Hao Wu, Qian Wang Nagoya University (Japan) ----- Morphology and catalyst effects on p-Si photocathodes for CO <sub>2</sub> photoelectrochemical reduction	132
★P27	<u>Kazuki Miyata</u> , Yasuhiro Shiraishi, Takayuki Hirai Osaka University (Japan) ----- Photocatalytic properties of porous carbon nitride prepared by calcination of hydroxyl-substituted melamine derivatives	133
★P28	<u>Wataru Hiramatsu</u> , Yasuhiro Shiraishi, Takayuki Hirai The University of Osaka (Japan) ----- Photocatalytic reduction of nitrate to ammonia with water on surface oxygen vacancies created on metal-oxide semiconductors	134
★P29	<u>Khongor Enkhbold</u> <sup>1</sup> , Yosuke Kageshima <sup>1</sup> , Katsuya Teshima <sup>2</sup> , Kazunari Domen <sup>2,3</sup> , Hiromasa Nishikiori <sup>1</sup> <sup>1</sup> Faculty of Engineering, Shinshu University (Japan) <sup>2</sup> Institute for Aqua Regeneration, Shinshu University (Japan) <sup>3</sup> The University of Tokyo (Japan) ----- Electrochemical Quantification of the Active Surface Areas of Rh Nanoparticle Co-Catalysts Deposited on Al-Doped SrTiO <sub>3</sub> Photocatalyst	135

## Poster Program(7)

Poster Number	Name and affiliation Title	Page
★P30	<u>Ryo Kato</u> <sup>1</sup> , Yosuke Kageshima <sup>1</sup> , Katsuya Teshima <sup>2</sup> , Kazunari Domen <sup>2</sup> , Hiromasa Nishikiori <sup>1</sup> <sup>1</sup> Faculty of Engineering, Shinshu University (Japan) <sup>2</sup> Institute for Aqua Regeneration, Shinshu University (Japan) Photoelectrochemical Properties of GaN Photoanodes in Non-Aqueous Electrolytes Containing Various Metal Complexes as Probes	136
★P31	<u>Chisato Hanafusa</u> <sup>1</sup> , Yusuke Ishii <sup>1</sup> , Hajime Suzuki <sup>1,2</sup> , Osamu Tomita <sup>1</sup> , Akinobu Nakada <sup>1</sup> , Ryu Abe <sup>1</sup> <sup>1</sup> Kyoto University (Japan) <sup>2</sup> PRESTO (Japan) Interlayer-Activated Hydrogen Evolution in Layered Oxysulfide Photocatalysts under Visible Light Irradiation	137
★P32	<u>Koki Yoshida</u> , Yasuhiro Shiraishi, Takayuki Hirai The University of Osaka (Japan) Linear Polymer Semiconductor Photocatalysts Induced by H-bonding and $\pi$ -Stacking Interactions for Solar Hydrogen Peroxide Production	138
P33	Rikuto Uchida, <u>Norihiro Suzuki</u> Tokyo Denki University (Japan) Facile synthesis of a photonic photocatalyst and control of its crystal plane through in-liquid epitaxial growth	139
★P34	<u>Uo Umezawa</u> <sup>1</sup> , Kosei Ito <sup>2</sup> , Yuma Yoshii <sup>1</sup> , Kei Noda <sup>1</sup> <sup>1</sup> Keio University (Japan) <sup>2</sup> Tokyo Metropolitan University (Japan) Large Onset Potential Shift Observed for C <sub>3</sub> N <sub>5</sub> Photoelectrodes Directly Deposited on Transparent Conductive Substrates	140

## Poster Program(8)

Poster Number	Name and affiliation Title	Page
P35	<p><u>Hajime Suzuki</u><sup>1,2</sup>, Yusuke Ishii<sup>1</sup>, Daichi Kato<sup>1</sup>, Osamu Tomita<sup>1</sup>, Akinobu Nakada<sup>1</sup>, Ryu Abe<sup>1</sup></p> <p><sup>1</sup> Kyoto University (Japan) <sup>2</sup>PRESTO (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Interlayer-active layered oxysulfides with an n = 1 Ruddlesden–Popper structure acting as photocatalysts for visible light water splitting</p>	141
★P36	<p><u>Hansol Jeon</u>, and Xiaoyan Jin</p> <p>University of Seoul (Republic of Korea)</p> <hr style="border-top: 1px dashed black;"/> <p>Boosting photocatalytic H<sub>2</sub>O<sub>2</sub> Production via Cu substitution-induced electronic structure tuning in ZnIn<sub>2</sub>S<sub>4</sub></p>	142
★P37	<p><u>Yuhi Tejima</u>, Taichi Sato, Akihide Iwase</p> <p>Meiji University (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Overall water splitting under visible light irradiation over Ir and La co-doped NaTaO<sub>3</sub> photocatalysts prepared by Rb<sub>2</sub>CO<sub>3</sub>-assisted flux synthesis</p>	143
★P38	<p><u>Kana Ueda</u><sup>1,3</sup>, Mutsumi Sugiyama<sup>1,2</sup></p> <p><sup>1</sup>Faculty of Science &amp; Technology, Tokyo University of Science (Japan) <sup>2</sup>RIST, Tokyo University of Science (Japan) Keio University (Japan) <sup>3</sup>JSPS Research Fellow (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>“Optoiontronic investigation” for electron-ion interacted dynamics at photocatalysis/electrolyte using in-situ electrochemical impedance spectroscopy</p>	144
★P39	<p><u>Minato Tanaka</u><sup>1</sup>, Yu Takagi<sup>1</sup>, Megumi Okazaki<sup>1</sup>, Kazuhiko Maeda<sup>1</sup></p> <p>Institute of Science Tokyo (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Improved photoelectrochemical CO<sub>2</sub> reduction over Ru(II)–Re(I) binuclear complex immobilized on an Al<sub>2</sub>O<sub>3</sub>-coated NiO electrode</p>	145

## Poster Program(9)

Poster Number	Name and affiliation Title	Page
★P40	<p><u>Gentoku Kido</u><sup>1,2</sup>, Hiroto Ueki<sup>1</sup>, Megumi Okazaki<sup>1</sup>, Jun Kikkawa<sup>3</sup>, Koji Kimoto<sup>3</sup>, Ryosuke Nishikubo<sup>4</sup>, Akinori Saeki<sup>4</sup>, Kazuhiko Maeda<sup>1,5</sup></p> <p><sup>1</sup>Department of Chemistry, School of Science, Institute of Science Tokyo (Japan)</p> <p><sup>2</sup>Kanto Chemical Co. (Japan)</p> <p><sup>3</sup>NIMS (Japan)</p> <p><sup>4</sup>Osaka University (Japan)</p> <p><sup>5</sup>ASMat, Institute of Science Tokyo (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Lewis Acid–Base Driven Anisotropic Crystal Growth of Pb<sub>2</sub>Ti<sub>2</sub>O<sub>5.4</sub>F<sub>1.2</sub> with Enhanced Visible-Light H<sub>2</sub> Evolution Activity</p>	146
P41	<p><u>Yugo Miseki</u>, Kenta Watanabe, Michiko Tamano, Kazuhiro Sayama</p> <p>AIST (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Scalable Solar Driven Hybrid System for Economical Hydrogen Production</p>	147
P42	<p><u>Osamu Tomita</u>, Takuro Kido, Hajime Suzuki, Akinobu Nakada, Ryu Abe</p> <p>Kyoto University (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Z-scheme Water Splitting Using Polyoxometalates as Electron Mediators</p>	148
★P43	<p><u>Hiroki Tsuchida</u><sup>1</sup>, Yusuke Ishii<sup>1</sup>, Hajime Suzuki<sup>1,2</sup>, Osamu Tomita<sup>1</sup>, Akinobu Nakada<sup>1</sup>, Akinori Saeki<sup>3</sup>, Ryu Abe<sup>1</sup></p> <p><sup>1</sup>Kyoto University (Japan)</p> <p><sup>2</sup>PRESTO (Japan)</p> <p><sup>3</sup>Osaka University (Japan)</p> <hr style="border-top: 1px dashed black;"/> <p>Interlayer Active Layered Oxysulfide Photocatalyst Na<sub>2</sub>Nd<sub>4</sub>Ti<sub>4</sub>O<sub>15-x</sub>S<sub>x</sub> with a Ruddlesden-Popper Intergrowth Structure</p>	149

## Poster Program(10)

Poster Number	Name and affiliation Title	Page
★P44	<u>Yuuki Iida</u> <sup>1</sup> , Hajime Suzuki <sup>1,2</sup> , Osamu Tomita <sup>1</sup> , Akinobu Nakada <sup>1</sup> , Ryu Abe <sup>1</sup> <sup>1</sup> Kyoto University (Japan) <sup>2</sup> PRESTO (Japan)	150
	Chelation-based Outermost Surface Control Boosts Visible-Light O <sub>2</sub> Evolution on Layered Oxyhalide Photocatalysts	
P45	<u>Erika Kikuchi</u> <sup>1</sup> , Tatsuyoshi Ito <sup>1</sup> , Kei Murata <sup>1,2</sup> <sup>1</sup> RIKEN Center for Sustainable Resource Science (Japan) <sup>2</sup> RIKEN Pioneering Research Institute (Japan)	151
	Photocatalytic CO <sub>2</sub> Reduction Using Rhodium Porphyrin Complexes	
★P46	<u>Shoma Matsubara</u> , Shota Tsunewaki, Ryuichi Yamaguchi, Atsushi Anzai, Naoki Tarutani, Kiyofumi Katagiri, Kei Inumaru Hiroshima University (Japan)	152
	Electrochemical Investigation of Crystalline Co <sub>3</sub> O <sub>4</sub> Co-Catalyst in Particle-Mixed TiO <sub>2</sub> Photocatalysts	
★P47	<u>Koki Akimoto</u> <sup>1</sup> , Yosuke Kageshima <sup>1</sup> , Katsuya Teshima <sup>2</sup> , Kazunari Domen <sup>2,3</sup> , Hiromasa Nishikiori <sup>1</sup> <sup>1</sup> Faculty of Engineering, Shinshu University (Japan) <sup>2</sup> Institute for Aqua Regeneration, Shinshu University (Japan) <sup>3</sup> The University of Tokyo (Japan)	153
	Investigation of CdS Photoelectrodeposition Conditions for Ga- doped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7</sub> S <sub>5</sub> Photocatalytic Particles Intended for Improved Hydrogen Evolution Activity	

## Poster Program(11)

Poster Number	Name and affiliation Title	Page
P48	<u>SocMan Ho-Kimura</u> University of Macau (Macau SAR, China) ----- Experimental Evidence for Photoactivated BiVO <sub>4</sub> Anodes with Enhanced Photoelectrochemical Water Oxidation	154
★P49	<u>Hidetoshi Fujita</u> <sup>1</sup> , Bunsho Ohtani <sup>2</sup> , Mai Takashima <sup>1</sup> ----- <sup>1</sup> Tokyo University of Science (Japan) <sup>2</sup> Nonprofit organization touche NPO (Japan) ----- Analysis of surface structure of bismuth vanadate and its photocatalytic oxygen evolution activity	155
★P50	<u>Tsukasa Ito</u> <sup>1</sup> , Tatsushi Imahori <sup>1,2</sup> ----- <sup>1</sup> Department of Industrial Chemistry, Tokyo University of Science (Japan) <sup>2</sup> Carbon Value Research Center, Tokyo University of Science (Japan) ----- Photoredox-Catalyzed Metal-Free $\alpha$ -Carboxylation of Styrenes with Carbon Dioxide	156
★P51	<u>Shuheii Uno</u> <sup>1</sup> , Kenji Hori <sup>2</sup> , Tatsushi Imahori <sup>1,3</sup> ----- <sup>1</sup> Department of Industrial Chemistry, Tokyo University of Science (Japan) <sup>2</sup> Transition State Technology Co. Ltd. (Japan) <sup>3</sup> Carbon Value Research Center, Tokyo University of Science (Japan) ----- Photoredox-catalyzed Csp-H carboxylation with CO <sub>2</sub>	157
★P52	<u>Kengo Nagatsuka</u> <sup>1</sup> , Yuichi Yamaguchi <sup>1,2</sup> , Akihiko Kudo <sup>1,2</sup> ----- <sup>1</sup> Faculty of Science, Tokyo University of Science (Japan) <sup>2</sup> Carbon Value Research Center, Tokyo University of Science (Japan) ----- Photoelectrochemical CO <sub>2</sub> Reduction to Form Syngas and CH <sub>4</sub> Using a Conductive Polymer-Modified Cu <sub>0.5</sub> Ga <sub>0.5-y</sub> In <sub>y</sub> ZnS <sub>2</sub> Photocathode	158

## Poster Program(12)

Poster Number	Name and affiliation Title	Page
★P53	<p><u>Kyoko Adachi</u><sup>1</sup>, Yuichi Yamaguchi<sup>1,2</sup>, Akihiko Kudo<sup>1,2</sup></p> <p><sup>1</sup>Faculty of Science, Tokyo University of Science (Japan)</p> <p><sup>2</sup>Carbon Value Research Center, Tokyo University of Science (Japan)</p> <p>-----</p> <p>The behavior of O<sub>2</sub> storage phenomenon for water splitting activity over a Pd-Ru dual cocatalysts-loaded NaTaO<sub>3</sub>:Sr photocatalyst</p>	159
★P54	<p><u>Sota Arai</u><sup>1</sup>, Yuichi Yamaguchi<sup>1,2</sup>, Akihiko Kudo<sup>1,2</sup></p> <p><sup>1</sup>Faculty of Science, Tokyo University of Science (Japan)</p> <p><sup>2</sup>Carbon Value Research Center, Tokyo University of Science (Japan)</p> <p>-----</p> <p>Effect of ZnS Surface Modification on Cu<sub>0.8</sub>Ga<sub>0.2</sub>Ga<sub>0.8</sub>In<sub>0.2</sub>S<sub>2</sub> for Z-schematic Water Splitting under Visible Light Irradiation</p>	160
★P55	<p><u>Hana Ito</u><sup>1</sup>, Yuichi Yamaguchi<sup>1,2</sup>, Tomiko M. Suzuki<sup>3</sup>, Takeshi Morikawa<sup>3</sup>, Akihiko Kudo<sup>1,2</sup></p> <p><sup>1</sup>Faculty of Science, Tokyo University of Science (Japan)</p> <p><sup>2</sup>Carbon Value Research Center, Tokyo University of Science (Japan)</p> <p><sup>3</sup>Toyota Central R&amp;D Labs., Inc. (Japan)</p> <p>-----</p> <p>Z-schematic Water Splitting under Visible Light Irradiation Using BaTa<sub>2</sub>O<sub>6</sub>:Ir,La Treated by a Flux and BiVO<sub>4</sub></p>	161
★P56	<p><u>Mai Ogano</u><sup>1</sup>, Wataru Takahara<sup>2</sup>, Yosuke Harashima<sup>2,3</sup>, Yuichi Yamaguchi<sup>1,4</sup>, Mikiya Fujii<sup>2,3</sup>, Akihiko Kudo<sup>1,4</sup></p> <p><sup>1</sup>Faculty of Science, Tokyo University of Science (Japan)</p> <p><sup>2</sup>NAIST, Material Science (Japan)</p> <p><sup>3</sup>NAIST, DSC (Japan)</p> <p><sup>4</sup>Carbon Value Research Center, Tokyo University of Science (Japan)</p> <p>-----</p> <p>Prediction of dependence of photocatalytic H<sub>2</sub> evolution over (Cu<sub>z</sub>Ag<sub>1-z</sub>Ga<sub>1-y</sub>In<sub>y</sub>)<sub>1-x</sub>Zn<sub>2x</sub>S<sub>2</sub> upon the solid solution ratio by machine learning and experimental demonstration</p>	162

## Poster Program(13)

Poster Number	Name and affiliation Title	Page
★P57	<u>Fuga Kakami</u> <sup>1</sup> , Ryuto Baba <sup>2</sup> , Wataru Takahara <sup>2</sup> , Yosuke Harashima <sup>2,3</sup> , Tomoaki Takayama <sup>2,3</sup> , Yuichi Yamaguchi <sup>1,4</sup> , Mikiya Fujii <sup>2,3</sup> , Akihiko Kudo <sup>1,4</sup> <sup>1</sup> Faculty of Science, Tokyo University of Science (Japan) <sup>2</sup> NAIST, Material Science (Japan) <sup>3</sup> NAIST, DSC (Japan) <sup>4</sup> Carbon Value Research Center, Tokyo University of Science (Japan) ----- Development of Visible-Light-Driven Metal Sulfide Photocatalysts Using Machine Learning	163
★P58	<u>Riku Nakao</u> <sup>1</sup> , Kengo Nagatsuka <sup>1</sup> , Yuichi Yamaguchi <sup>1,2</sup> , Akihiko Kudo <sup>1,2</sup> <sup>1</sup> Faculty of Science, Tokyo University of Science (Japan) <sup>2</sup> Carbon Value Research Center, Tokyo University of Science (Japan) ----- Effect of Cocatalysts and Carbon Nanotubes on a Long Wavelength Visible Light-Responsive Cu <sub>0.8</sub> Ga <sub>0.8-x</sub> In <sub>x</sub> Zn <sub>0.4</sub> S <sub>2</sub> Photocatalyst for Z-Schematic Solar Water Splitting	164
★P59	<u>Sotaro Taniguchi</u> <sup>1</sup> , Hana Ito <sup>1</sup> , Nobuhiro Saito <sup>1</sup> , Yuichi Yamaguchi <sup>1,2</sup> , Akihiko Kudo <sup>1,2</sup> <sup>1</sup> Faculty of Science, Tokyo University of Science (Japan) <sup>2</sup> Carbon Value Research Center, Tokyo University of Science (Japan) ----- Water splitting under visible light irradiation over Cr-doped SrTiO <sub>3</sub> photocatalyst synthesized by various methods	165

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