横浜国立大学先端科学高等研究院シンポジウム・シリーズ第8回
水素エネルギー変換化学研究ユニット

Graz University of Technology

Institute of Advanced Sciences
Yokohama National University

1st International Workshop on Hydrogen and Fuel Cells in 8th International Summer School on Advanced Studies of Polymer Electrolyte Fuel Cell

Date: 2015/9/2
Time: 13:30-18:00
Place: 横浜国立大学
エネルギー工学棟501号室
Building of Energy Engineering (N8-8),
Yokohama National University,
79-5 Tokiwadai, Yokohama

Keynote Lecture

13:30 ~ 15:00

Dr. Alexander Schenk,
Graz University of Technology, Austria
"High temperature PEM fuel cells for stationary combined heat and power production"

Prof. Gen Inoue, Department of Chemical Engineering, Kyoto University, Japan
"Evaluation of PEMFC porous electrode structure and cell performance by computer reconstruction and simulation"

Student Poster Presentation *15:00~17:00*

1. Active and stable oxygen reduction catalysts for the high temperature polymer electrolyte fuel cell
   Ilena Kaltenboeck, Graz University of Technology
2. The influence of two different synthesis routes on the performance of aluminia supported iron oxygen carrier for the steam iron process
   Malli Karin, Graz University of Technology
3. A numerical study on carbon formation in porous sofc anodes
   Christoph Schluckner, Graz University of Technology
4. Impedance spectroscopy as a characterization method for electrochemical devices
   RITT Katharina , Graz University of Technology
5. Experimental investigation of carbon formation on the anode of a large planar asc-sofc
   Vanja Subotić, Graz University of Technology
6. Palladium based electrocatalysts for ethanol oxidation reaction in alkaline medium
   Bernd Cermenek, Graz University of Technology
7. Synthesis and characterisation of carbon supported bimetallic platinum-gold-nanoparticles for borohydride direct oxidation
   Maximilian Grandi, Graz University of Technology
8. Real-time quantification method for hydrogen
   Jan Senn, Graz University of Technology
9. Hydrolysis in direct borohydride fuel cells
   Robert Zacharias, Graz University of Technology
10. The benefits of a mixed electrolyte approach for direct borohydride fuel cells
    Christoph Grimmer, Graz University of Technology
11. Oxygen evolution reaction of zirconium oxide thin film for alkaline water electrolysis
    Ayaka Oish, Yokohama National University
12. Activity for oxygen evolution reaction on Ir-Ta-Zr composite electrocatalysts in sulfuric acid with toluene contamination
    Kohei Nagai, Yokohama National University
13. Evaluation of durability of titanium-niobium oxides mixed with Ti4O7 as non-precious metals and carbon-free cathodes for PEFC in sulfuric acid at 80 oC
    Makoto Hamazaki, Yokohama National University
14. Kinetics of oxygen reduction reaction in acidic media on titanium oxide-based catalysts prepared from oxy-titanium tetra-pyrazino-porphyazine
    Tomoaki Hayashi, Yokohama National University
15. Catalytic activity and durability of LaNiO3/Ni for oxygen evolution for alkaline water electrolysis under potential cycling
    Jiajin Bi, Yokohama National University
16. The charge transfer of toluene direct electrohydrogenation reaction on Pt/C
    Bao Yun, Yokohama National University
17. Polarization for A toluene hydrogenation electrolyzer with various operation temperature and toluene concentration feeding
    Yuki Sawaguchi, Yokohama National University
18. Titanium-niobium oxides as non-platinum cathodes for polymer electrolyte fuel cells
    Yuko Tamura, Yokohama National University
19. Relationship between crystal structure and OER of LixNi2-xO2/Ni for alkaline water pelectrolysis
    Sho Fujita, Yokohama National University
20. Durability of IrO2-Ta2O5 / Ti anode with toluene contamination
    Kenji Matsumae, Yokohama National University
21. Temperature distribution responses of a micro-tubular SOEC after an electric load change
    Tatsuya Mizusawa, Yokohama National University
22. In situ humidity measurements at the CL surface by MEMS based sensors
    Jun Tsujikawa, Yokohama National University
23. Simultaneous measurements of liquid water distributions and the temperature at the CL-MPL interface inside operating PEMFC
    Kentaro Watanabe, Yokohama National University
24. A three-dimensional numerical analysis of the effects of water transport property in flow channel and GDL on PEMFC unsteady response
    Koji Takaya, Yokohama National University
25. Conjugate analysis of heat-species-charge transport for evaluating effects of the temperature gradient on cell performance
    Kiyofumi, Miyagawa, Yokohama National University
26. Using microbial fuel cells with shewanella biofilm electrode for rapid and advanced operation of wastewater treatment
    Kaito Shinoda, Yokohama National University

【申込・お問い合わせ】 交流会 ポスター会場にて参加費 2,000 円
ご出席を希望される方は 8/31 午前中までにご所属,氏名を明記し, 以下のアドレスまでお送り下さい。(先着 30 名様とさせて頂きます。)
Email: fc_summer2015@ml.ynu.ac.jp
横浜国立大学 大学院 工学研究院／先端科学高等研究院 水素エネルギー変換研究ユニット 主任研究者 光島 重徳、
横浜国立大学 大学院 工学研究院 荒木 拓人

横浜国立大学 先端科学高等研究院 〒240-8501 神奈川県横浜市保土ヶ谷区常盤台 79-5
先端科学高等研究院棟(建物番号 S7-4) 102 室、103 室(オフィス)
Phone: 045-339-4454 Fax: 045-339-4456 E-mail: ias@ynu.ac.jp
Facebook: 横浜国立大学先端科学高等研究院 Institute of Advanced Sciences Yokohama National University

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