

## **CURRICULUM VITAE**

Name: Tatsumi Ishihara



**Date of Birth (Age)**

5th April 1961 (51)

**Nationality**

Japanese

**Title of Current Appointment**

Professor of Kyushu University

**Higher Education**

1984 Kyushu University B.Sc (Department of Applied Chemistry)

1986 Kyushu University M.Sc. (Department of Materials Science and Technology)

1992 Dr. of Engineering (Kyushu University)

**Job History**

1986 Research Associate, Kyushu University

1989-2003 Research Associate, Lecture, Associate Professor, Oita University

2003 Professor, Kyushu University

2012 Distinguished Professor, Kyushu University

2014 Visiting Professor, Imperial College London

**Awards**

2005 Distinguished Researchers Award from Japan Chemical Society

2005 Nikkei BP Award

2006 Award from Ministry of Education, Culture, Sports, Science, and Technology.

2008 Seiyama Award from Japan Chemical Sensor Society

2011 Ichimura Research Award from New Technology Development Foundation

2012 Somiya Award from IUMRS

2013 Catalyst Society of Japan Award (Industrial)

Academic Award from Ceramic Society of Japan

**Research Area;** Functional Inorganic Materials, Fuel Cell, Environmental Catalyst

**Publications** ( at 07/05/2014)

Original papers :444

Review:74

Book; 47

Patent; 93

## Recent Publication;

- 1) Mg–air oxygen shuttle batteries using a ZrO<sub>2</sub>-based oxide ion-conducting electrolyte  
Atsushi INOISHI, Young-Wan JU, Shintaro IDA and Tatsumi ISHIHARA  
*Chemical Communications*, **49**, 41, pp. 4691-4693, 2013
- 2) Effect of Boron Deposition and Poisoning on the Surface Exchange Properties of LSCF  
Electrode Materials of Solid Oxide Fuel Cells  
Ling ZHAO, Junji HYODO, Kongfa CHEN, Na AI, Sudath AMARASINGHE, Tatsumi ISHIHARA, and San Ping JIANG  
*Journal of The Electrochemical Society*, **160**, 6, pp. F682-F686, 2013
- 3) A Ce(Mn,Fe)O<sub>2</sub> dense nanofilm as an improved active anode for metal-supported solid oxide fuel cells  
Young-Wan JU, Shintaro IDA and Tatsumi ISHIHARA  
*RSC Advances*, **3**, 26, pp. 10508-10515, 2013
- 4) Electrochemical hydrogen pumps using Ba doped LaYbO<sub>3</sub> type proton conducting electrolyte.  
Takaaki SAKAI, Kaori ISA, Maki MATSUKA, Takeshi KOZAI, Yuji OKUYAMA, Tatsumi ISHIHARA, Hiroshige MATSUMOTO  
*International Journal of Hydrogen Energy*, **38**, 16, pp. 6842-6847, 2013
- 5) Hydrogen production from methane using vanadium-based catalytic membrane reactors  
Maki MATSUKA, Mitoki HIGASHI, Tatsumi ISHIHARA  
*International Journal of Hydrogen Energy*, **38**, 16, pp. 6673-6680, 2013
- 6) Improvement in stability of La<sub>0.4</sub>Ba<sub>0.6</sub>CoO<sub>3</sub> cathode by combination with La<sub>0.6</sub>Sr<sub>0.4</sub>Co<sub>0.2</sub>Fe<sub>0.8</sub>O<sub>3</sub> for intermediate temperature-solid oxide fuel cells  
Jing XIE, Young-Wan JU, Takaaki SAKAI, Tatsumi ISHIHARA  
*Journal of Solid State Electrochemistry*, **17**, 8, pp. 2251-2258, 2013
- 7) Effects of fluorinated hydrocarbon addition on H<sub>2</sub>O<sub>2</sub> direct synthesis from H<sub>2</sub> and air over an Au–Pd bimetallic catalyst supported on rutile-TiO<sub>2</sub>  
Tatsumi ISHIHARA, Kohei SHIGETA, Yuuki OOISHI, Maki MATSUKA, Hidehisa HAGIWARA and Shintaro IDA  
*Catalysis Science & Technology*, 2013, **3**, 11, pp. 2971-2975, 2013
- 8) Black-colored nitrogen-doped calcium niobium oxide nanosheets and their photocatalytic properties under visible light irradiation  
Shintaro IDA, Yohei OKAMOTO, Shota KOGA, Hidehisa HAGIWARA and Tatsumi ISHIHARA  
*RSC Advances*, **3**, 29, pp. 11521-11524, 2013
- 9) A first-principles study on defect association and oxygen ion migration of Sm<sup>3+</sup> and Gd<sup>3+</sup> co-doped seria  
Musa ALAYDRUS, Mamoru SAKAUE, Susan M ASPERA, Triati D K WUNGU, Tran P T LINH, Hideaki KASAI, Tatsumi ISHIHARA and Takahiro MOHRI  
*Journal of Physics: Condensed Matter*, **25**, 22, 225401, pp. 1-8, 2013
- 10) Ni- Fe bimetallic cathodes for intermediate temperature CO<sub>2</sub> electrolyzers using La<sub>0.9</sub>Sr<sub>0.1</sub>Ga<sub>0.8</sub>Mg<sub>0.2</sub>O<sub>3</sub> electrode  
Shijing WANG, Atsushi INOISHI, Jong-eun HONG, Young-wan JU, Hidehisa HAGIWARA, Shintaro IDA and Tatsumi ISHIHARA  
*Journal of Materials Chemistry A*, 2013, **1**, 40, pp. 12455-12461, 2013