


Curriculum Vitae

Name	Yong-gun Shul	Title	Professor and Director	
Affiliation				
Department of CHEMICAL AND BIOMOLECULAR ENGINEERING, Yonsei University, Seoul 120-749, South Korea				
Address (Office)	Tel : 82-2-2123-2758, Fax : 82-2-2123-6594 E-mail : shulyg@yonsei.ac.kr , Homepage: http://web.yonsei.ac.kr/inorgcat			
Education				
1973 - 1977	B. S. Department of Chemical Engineering, Yonsei University, Korea			
1977 - 1979	M. S. Department of Chemical Engineering, Korea Advanced Institute of Science and Technology, Korea			
1982 - 1986	Ph. D. In Chemical Energy, Tokyo University, Japan			
Professional Main Activity				
1987 - pres.	Assistant, Associate and Full Professor, Department of CHEMICAL AND BIOMOLECULAR ENGINEERING, Yonsei University, Korea			
1986 - 1987	Visiting Researcher, National Institute for Materials Science (NIMS), Japan			
1994 - 1995	Visiting Professor, UNIVERSITE PIERRE ET MARIE CURIE(Paris VI university), France			
2007 - 2011	Director, Center for clean Technology (CT), Yonsei University			
2008 - 2010	Organizer, The Annual Korea-USA Joint Symposium on Hydrogen & Fuel Cell Technologies, Yonsei University and University of South Carolina			
2009 - 2010	Chairman, Catalyst Department Committee at Korea Institute of Chemical Engineering			
2009 - 2012	Director, Core-technology center for polymer electrolyte membrane fuel cells, Korea			
2009 - 2010	Chairman , Korea Carbon Society, South Korea			
2009 - 2010	Vice-Chairman, Korea Electrochemical Society			
2010 - 2011	President , Education for Industrial and Engineering Chemistry			
2010 - 2012	Director, Fusion Program for Advanced Education of Next-generation Energy Battery, Korea			
2012 – pres.	Korean participant, International Partnership for Hydrogen and Fuel Cells in the Economy & International Energy Agency Hydrogen Implementing Agreement			
2013 – 2014.	Vice-chairman, The Korean Society of Industrial & Engineering Chemistry			

Representative Publications

- [1] W. S. Chi, Y. Jeon, S. J. Park, J. H. Kim, and Y.-G. Shul, *Chempluschem*, vol. 79, no. 8, pp. 1109–1115, 2014.
- [2] J. G. Lee, J. H. Park, and Y. G. Shul, *Nat. Commun.*, vol. 5, p. 4045, 2014.
- [3] J. K. Koh, Y. Jeon, Y. Il Cho, J. H. Kim, and Y.-G. Shul, *J. Mater. Chem. A*, vol. 2, no. 23, pp. 8652–8659, 2014.
- [4] Y. Jeon, D.-H. Park, J.-I. Park, S.-H. Yoon, I. Mochida, J.-H. Choy, and Y.-G. Shul, *Sci. Rep.*, vol. 3, p. 2902, 2013.
- [5] J. G. Lee, C. M. Lee, M. Park, and Y. G. Shul, *RSC Adv.*, vol. 3, no. 29, pp. 11816–11822, 2013.
- [6] C. Lee, S. Jo, J. Choi, K.-Y. Baek, Y. Truong, I. Kyratzis, and Y.-G. Shul, *J. Mater. Sci.*, vol. 48, no. 10, pp. 3665–3671, 2013.

International Journal Publication : 217

Domestic Journal Publication : 44

Conference Presentation : 374

Patent : domestic 29, international 1

Major Research Interests

Nanopore, nanoparticle, and nanocomposite chemistry

Catalyst for petrochemical reactions and hydrogen production

Modification and Application of carbon materials and membranes for fuel cells.

Anisotropic transport and magnetic properties of low dimensional oxides containing transition metals with unusual oxidation states

Fuel cell evaluation system in extreme conditions such as high pressure and high temperature

Awards

2006 Academic Award, Korean Society for Engineering Education

2007 Best Research Achievement Award, Yonsei University

2007 Academic Award, Yonsei University

2010 Achievement Award, Catalyst Department Committee at Korea Institute of Chemical Engineering

2011 Achievement Award, Korea Carbon Society

Research fields (Current project-based topics)

MEA for high temperature polymer electrolyte, Samsung Electronics

Development of Non-Pt Catalysts for Cost Reduction of Fuel Cell Vehicle, Ministry of Trade, Industry and Energy

Development of high temperature fuel cell catalysts for high efficiency and durability, Ministry of Science, ICT and Future Planning

Development of Novel Oxygen Reduction Catalyst and Oxygen Evolution Catalyst as a Cathode Materials for Zn Metal-Air Battery System, Solvay