

เอกสารอ้างอิง

- [1] An, L., Zhao, T.S., Shen, S.Y., Chen, Q.X. and Wu, R., 2011, “Alkaline direct oxidation fuel cell with non-platinum catalysts capable of converting glucose to electricity at high power output”, **Journal of Power Sources**, Vol.196, pp.186–190.
- [2] Mauro, Pastaa., Fabio La, Mantia and Yi, Cui., 2010, “Mechanism of glucose electrochemical oxidation on gold surface”, **Electrochimica Acta**, vol. 55 , pp 5561-5568.
- [3] Toninaga, M., Shimazoe, T., Nagashima, M., Kusuda, H., Kubo, A., Kuwahara, Y. and Taniguchi, I 2005. “Electrocatalytic oxidation of glucose at gold-silver alloy, silver and gold nanoparticles in an alkaline solution”, **Journal of Electroanalytical Chemistry**, vol.590, pp. 37-46.
- [4] Tonda-Mikiela, P., Napporn, T., Morais, W., Karine, C., Aicheng Chen, S. and Boniface Kokoh, K., 2012, “Synthesis of Gold-Platinum Nanomaterials Using Bromide Anion Exchange-Synergistic Electroactivity toward CO and Glucose Oxidation”, **Journal of The Electrochemical Society**, vol. 159, No.11, pp. H828-H833.
- [5] Yongprapat, S., Therdthianwong, A. and Therdthianwong, S. 2012, “RuO₂ promoted Au/C catalysts for alkaline direct alcohol fuel cell”, **Electrochimica Acta**, vol.83, pp. 87-93
- [6] Ben Aoun, S., Dursun, Z., Koga, T., Sook Bang, G., Sotomura, T. and Taniguchi, I. 2004, “Effect of metal ad-layers on Au (1 1 1) electrodes on electrocatalytic oxidation of glucose in an alkaline solution”, **Journal of Electroanalytical Chemistry**, vol.567, pp. 175-183.
- [7] Yongprapat, S., Therdthianwong, A. and Therdthianwong, S. 2012, “Au/C catalyst prepared by polyvinyl alcohol protection method for direct alcohol alkaline exchange membrane fuel cell application”, **J Appl Electrochem**.
- [8] Pasta, M., Ruffo, R., Falletta, E., Mari, C. and Pina, D. 2010, “Alkaline glucose oxidation on nanostructured gold electrodes”, **Gold Bulletin**, vol.43, No.1.

- [9] Toninaga, M., Shimazoe, T., Nagashima, M., Kusuda, H., Kubo, A., Kuwahara, Y. and Taniguchi, I 2005, "Electrocatalytic oxidation of glucose at gold-silver alloy, silver and gold nanoparticles in an alkaline solution", **Journal of Electroanalytical Chemistry**, vol.590, pp. 37-46.
- [10] Tominaga, M., Shimazoe, T., Nagashima, M. and Taniguchi, I 2005, "Electrocatalytic oxidation of glucose at gold nanoparticle-modified carbon electrodes in alkaline and neutral solutions", **Electrochemistry communications**, vol.7, pp. 189-193.
- [11] Li, L. and Scott, K. 2013, "A direct glucose alkaline fuel cell using MnO₂-carbon nanocomposite supported gold catalyst for anode glucose oxidation", **Journal of Power Sources**, Vol.221, pp 1-5.
- [12] Masato, T., Makoto, N., Katsuhiko N. and Isao, T. 2007. "Surface poisoning during electrocatalytic monosaccharide oxidation reactions at gold electrodes in alkaline medium", **Electrochemistry Communications**, vol. 9, pp. 1892-1898.
- [13] Cuevas-Muñiz, F.M., Guerra-Balcazar, M., Castaneda, F., Ledesma-Garcia, J. and Arriaga, L.G. 2011, "Performance of Au and AuAg nanoparticles supported on Vulcan in a glucose laminar membraneless microfuel cell" **Journal of Power Sources**, vol. 196, pp.5853-5857
- [14] Zhang, Z., Xin, L., Sun, K. and Li, W. 2011, "Pd-Ni electrocatalysts for efficient ethanol oxidation reaction in alkaline electrolyte", **International journal of hydrogen energy**, vol. 36, pp. 12686-12697.
- [15] Lee, S., Ju Kimb, H., Mook Choi, S., Ho Seo, M. and Bae Kim, W. 2013, "The promotional effect of Ni on bimetallic PtNi/C catalysts for glycerol Electrooxidation", **Applied Catalysis A: General**, vol. 429, pp.39-47.
- [16] Weng, Y., and Chou, T.C. 2003, "Effects of Electrochemical Deposition of a-Ni(OH)₂/pt/Ti Electrodes for Ethanol Anodic Oxidation", **Journal of The Electrochemical Society**, vol.150, pp.C385-C390.

- [17] Geng, X., Zhang, H., Ye, W., Ma, Y. and Zhong, H., 2008, "Ni-Pt/C as anode electrocatalyst for a direct borohydride fuel cell", **Journal of Power Sources**, vol. 185, pp. 627–632.
- [18] Grdeń, M., Klimek, K. and Czerwiński, A. 2006, "Quartz crystal microbalance studies on electrochemical behavior of electrodeposited Pd-Ni alloys", **Electrochimica Acta**, vol. 51, pp. 2221–2229.
- [19] Michal, G., Andrzej, C., Jerzy, G. and Ewa, B. 1999, "Hydrogen electrosorption in Ni-Pd alloys", **Journal of Electroanalytical Chemistry**, vol. 460 pp. 30–37.
- [20] Chen, W., Tang, Y., Bao, J., Gao, Y., Liu, C., Xing, W., and Lu, T. 2007, "Study of carbon-supported Au catalyst as the cathodic catalyst in a direct formic acid fuel cell prepared using a polyvinyl alcohol protection method", **J. Power Sour.**, 167, pp. 315-318.
- [21] Ryan, J., Gilliam, W. and Kirk, J. 2011, "Influence of Structural Microstructural and Electrical Properties on Electrocatalytic Performance at the Nanoscale", **Electrocatal.**, 2, pp. 1–19
- [22] อภิชัย เทอดเทียนวงษ์, 2554, **เทคโนโลยีเซลล์เชื้อเพลิง**, พิมพ์ครั้งที่ 1. กรุงเทพมหานคร.
- [23] อรุณี ศุภสินสาริต, "พลังงานจากชีวมวลที่มีลิกโนเซลลูโลสสูง", **วารสารสิ่งแวดล้อม**, เล่มที่ 2
- [24] Wing, S. Product analyses to study the mechanism of the electrochemical oxidation of glucose, [Online], Available: <http://hub.hku.hk/handle/10722/30539> [2013, April 2]
- [25] Mauro, P., Fabia La, M., and Yi, C., 2010. "Mechanism of glucose electrochemical oxidation on gold surface", **Electrochimica Acta**, vol. 55, pp. 5561-5568.
- [26] Önal, Y., Schimpf, S. and Claus, P. 2004. "Structure sensitivity and kinetics of D-glucose oxidation to D-gluconic acid over carbon-supported gold catalysts", **Journal of Catalysis**, vol. 223, pp. 122–133.

- [27] มะลิ หุ่นสน, 2555, เซลล์เชื้อเพลิงฟิวเอ็ลและการวิเคราะห์เชิงเคมีไฟฟ้า, พิมพ์ครั้งที่ 1 จุฬาลงกรณ์มหาวิทยาลัย.
- [28] Duangsamorn, R., 2010, "Effect of carbon pretreatment and preparation method on alcohol electrooxidation of Au/C catalyst", King Mongkut's University of Technology Thonburi.
- [29] Jiworalerk, C. 2012, "AuAg/C catalyst preparation for glucose electrooxidation in alkaline medium", King Mongkut's University of Technology Thonburi.
- [30] แม้น อมรสิทธิ์, 2534, **Principles and Techniques of Instrumental Analysis**.
- [31] สุกฤทธิรา รัตนวิไล, 2555, **ตัวเร่งปฏิกิริยาและการใช้งานในอุตสาหกรรม**, พิมพ์ครั้งที่ 2, มหาวิทยาลัยสงขลานครินทร์.
- [32] สมชัย อัครทิศา, 2003, **ความรู้พื้นฐานทางวิศวกรรมของปฏิกิริยาเชิงเร่ง**, กรุงเทพมหานคร.
- [33] บุญเหลือ เภาถาวรชัย, 2551, **หลักการเบื้องต้นกล้องจุลทรรศน์อิเล็กตรอนชนิดส่องผ่านสำหรับงานวัสดุศาสตร์**, พิมพ์ครั้งที่ 1, จุฬาลงกรณ์มหาวิทยาลัย.
- [34] Yongprapat, S., Therdthianwong, A. and Therdthianwong, S. 2013, "Au/C catalysts promoted with metal oxides for ethylene glycol electro-oxidation in alkaline solution", **Journal of Electroanalytical Chemistry**, vol.697, pp. 46-52.
- [35] Tremiliosi-Filho, G., Dall Antonia, L.H. and Jeriewicz, G. 1997, "Limit to extent of formation of the quasi-two-dimensional oxide state on Au electrodes", **Journal of Electroanalytical Chemistry**, vol.422, pp. 149-159.
- [36] OriginLab Corporation. 2013, "Tutorials for Origin 8.5 SR0", vol. 413.
- [37] Jiang, J.; Kucernak, A. 2002. "Electrochemical of small organic molecules on mesoporous on precious metal catalyst I: CO and methanol on platinum", **J. Electroanal. Chem.**, vol. 551 (1-2), pp. 153-165.