

## References

1. Web Site of “Fuel Cell Today”: <http://www.fuelcelltoday.com/index/>.
2. A. Heinzel and V.M. Barragán, “A review of the state-of-the-art of the methanol crossover in direct methanol fuel cells”, Journal of Power Sources, Vol. 84, 1999, 70–74.
3. H. Yang, T.S. Zhao, and Q. Ye “In situ visualization study of CO<sub>2</sub> gas bubble behavior in DMFC anode flow fields”, Journal of Power Sources, Vol. 139, 2005, 79–90.
4. U. Pasaogullari and C.Y. Wang, “Liquid water transport in gas diffusion layer of polymer electrolyte fuel cells”, Journal of the Electrochemical Society, Vol. 151, 2004, A399-A406.
5. K. Zhukovsky and A. Pozio, “Maximum current limitations of the PEM fuel cell with serpentine gas supply channels” Journal of Power Sources, Vol. 130, 2004, 95–105.
6. T. V. Nguyen, “A Gas Distributor Design for Proton Exchange Membrane Fuel Cells”, Journal of Electrochemical Society, Vol. 143, 1996, 103-105.
7. K. Sugiura, M. Nakata, T. Yodo, Y. Nishiguchi, M. Yamauchi, and Y. Itoh, ” Evaluation of a cathode gas channel with a water absorption layer/waste channel in a PEFC by using visualization technique”, Journal of Power Sources Vol. 145, 2005, 526–533.
8. S. Maharudrayya, S. Jayanti, and A. P. Deshpande, ” Flow distribution and pressure drop in parallel-channel configurations of planar fuel cells”, Journal of Power Sources, Vol. 144, 2005, 94–106.

9. F. Barreras, A. Lozano, L. Valiñno, C. Mar'in, and A. Pascau, "Flow distribution in a bipolar plate of a proton exchange membrane fuel cell: experiments and numerical simulation studies", *Journal of Power Sources*, Vol. 144, 2005, 54–66.
10. Li, X. and I. Sabir, "Review of bipolar plates in PEM fuel cells: Flow-field designs", *Journal of Hydrogen Energy*, Vol.30, 2005, 359 – 371.
11. S. C. Kelley, G. A. Deluga, and W. H. Smyrl, "Miniature Fuel Cells Fabricated on Silicon Substrate", *AIChE Journal*, Vol. 48, 2002, 1071-1082.
12. J. Yu, P. Cheng, Z. Ma, and B. Yi, "Fabrication of Miniature Silicon Wafer Fuel Cells with Improved Performance", *Journal of Power Sources*, Vol. 124, 2003, 40–46.
13. K. Shah, W.C. Shin, and R.S. Besser, "Novel Microfabrication Approaches for Directly Patterning PEM Fuel Cell Membranes", *Journal of Power Sources*, Vol. 123, 2003, 172-181.
14. S. W. Cha, S. J. Lee, Y. I. Park, and F. B. Prinz, "Investigation of Transport Phenomena in Micro Flow Channels for Miniature Fuel Cells", *Fuel Cell Science, Engineering and Technology, FUEL CELL2003-1709*, ASME, 2003, 143-148.
15. G. Q. Lua, C. Y. Wang, T. J. Yen, and X. Zhang, "Development and Characterization of a Silicon-based Micro Direct Methanol Fuel Cell", *Electrochimica Acta*, Vol. 49, 2004, 821–828.
16. A. Hermanna, T. Chaudhuria, and P. Spagnolb, "Bipolar plates for PEM fuel cells: A review", *International Journal of Hydrogen Energy*, Vol. 30, 2005, 1297-1302

- 17.V. Mehta and J. Smith Cooper, “Review and analysis of PEM fuel cell design and manufacturing”, International Journal of Hydrogen Energy, Vol. 114, 2003, 32-35
- 18.R.L. Borup and N.E.Vanderborgh, “Proceedings of Annual Automotive Technology Development Contractors” Mater Res SocSymp, Vol. 393, 1995, 151–5.
- 19.陳孟壕, “微型直接甲醇燃料電池陰極之新式多段式流道,” 國立清華大學動力機械工程學系碩士論文, 2005.
- 20., H. Dohle, J. Divisek, and R. Jung, “Process engineering of the direct methanol fuel cell”, Journal of Power Sources, Vol. 86, 2000, 469–477.
- 21.J. Argyropoulos, ”Gas evolution and power performance in direct methanol fuel cells”, Journal of Applied Electrochemistry 29:661-669, 1999
- 22.W. Lee, C. Ho, J.W. Van Zee, and M. Murthy, “The effects of compression and gas diffusion layers on the performance of a PEM fuel cell,” Journal of Power Sources, Vol. 84, 1999, pp 45–51
- 23.J. Ge and H. Liu, “Experimental studies of a direct methanol fuel cell,” Journal of Power Sources, Vol. 142, 2005, pp 56–69.
- 24.N. Nakagawa, and Y. Xiu, “Performance of a direct methanol fuel cell operated at atmospheric pressure,” Journal of Power Sources, Vol. 118, 2003, pp 248–255.
- 25.J. Liu, T.-S. Zhao, R. Chen, and W. Wong, “Effect of methanol concentration on passive DMFC performance,” Fuel Cells Bulletin, Vol. 2, 2005, pp 12-17.

26.J. S. Cowart, "An Experimental and Modeling Based Investigation into the High Stoichiometric Flow Rates Required in Direct Methanol Fuel Cells", Journal of Power Sources, Vol. 143, 2005, pp. 30-35.

