

Michael Krumpelt

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Professional Experience

- 2002-present, Leader and Senior Scientist, solid oxide fuel cells, Argonne National Laboratory
- 1992-2002, Manager and Senior Scientist, fuel cell technology department, Argonne National Laboratory
- 1986-1992, Group Leader, fuel cell materials development, Argonne National Laboratory
- 1982-1992, Group Leader, systems analysis group, Argonne National Laboratory
- 1978-1982, Program Manager of Industrial Fuel Cell Contracts, Argonne National Laboratory
- 1972-1978, Group Leader, electrolytic membrane cell development, BASF Corporation
- 1966-1973, Staff member, Argonne National Laboratory

Research Experience

- Fuel cell materials and processes
- Fuel processing and catalysis
- Electrochemistry
- Systems analysis
- Technology assessment

Related Publications

- Activity and structure of perovskites as diesel reforming catalysts for solid oxide fuel cells, *Int. J. Appl. Ceram. Technol.* 4, 3001-3007 (2005)
- Fuel processing for fuel cell systems in transportation and portable power applications, *Catalysis Today*, 77, 3-16, (2002) M. Krumpelt, J. T. Krause, J. D. Carter, J. P. Kopasz, S. Ahmed
- Water balance in polymer electrolyte fuel cell systems, *J Power Sources*, 112, 519-530, (2002)
- Oxygen ion conducting materials, U. S. patent 6 916 570 (2005) J. Vaughey, M. Krumpelt, X. Wang, J. D Carter
- Method for generating hydrogen for fuel cells, U. S. patent 6 713 040, S. Ahmed, S. H. Lee, J. D. Carter, M. Krumpelt

Publications, Patents, Lectures

- Over 200 papers and reports
- Over 25 patents
- Many invited lectures

Awards

- IR 100 award
- Department of Energy achievement award
- Director's pacesetter award

Education

- Ph.D., Physical Chemistry, University of Braunschweig, Germany, 1966
- M.S., Inorganic Chemistry, University of Munich, Germany, 1963
- B.S., Chemistry, University of Braunschweig, Germany, 1963