Prof. Dr. György Inzelt

Chemistry Institute, Department of Physical Chemistry, Laboratory of Electrochemistry and Electroanalytical Chemistry, Eötvös Loránd University, H-1117 Budapest, Pázmány Péter sétány 1/a, Hungary, inzeltgy@chem.elte.hu

Curriculum vitae

Born November 2, 1946, Budapest
1970 **M. Sc**.with honours, Eötvös University, Budapest
1972 **Ph. D**., summa cum laude, Eötvös University
1978 **C. Sc**., Hungarian Acad. Sci.
1988 **D. Sc**., Hungarian Acad. Sci.
1970-1977 assistant professor, Eötvös Univ., Dept. of Physical Chemistry, Budapest
1982-1983 postdoctoral research associate (University of Tennessee, Knoxville, USA)
1983-1990 associate professor
1990- full professor, Eötvös University, Dept. of Physical Chemistry
1994-1998 Vice Rector of Eötvös University
1999-2005 Director of the Chemistry Institute of Eötvös University
1998- **Head of the Doctoral School in Chemistry, Eötvös University**
2006- Head of the Laboratory of Electrochemistry and Electroanalytical Chemistry, Eötvös University
2007- **Member of the Hungarian Accreditation Committee**
1993- **Member of the Doctoral Committee of Faculty of Sciences, Eötvös University**
1995-1998 **Chairman of the Doctoral Committee, Eötvös University**
1994-1998 Chairman of the Habilitation Committee, Eötvös University
1994-1998 **Member of the National Doctoral and Habilitation Council**
1993-2006 Chairman of Subcommittee of Electrochemistry, Hungarian Acad. Sci.
1991- Member of the Committee of Physical and Inorganic Chemistry of Hung. Acad. Sci.
1987- Member of International Society of Electrochemistry, 1997-2003 co-chairperson of Division 2, chair-elect of Division 1, 2005-2006, chair 2007-2008, past cair 2009-2010
2000- IUPAC Fellow, Member of Advisory Subcommittee of Div. 1
1992-2004 FECS WPEC, National secretary
1992-2002 Magyar Kémiai Folyóirat, Member of Editorial Board
1996-2002, 2004-2007Electrochimica Acta, Member of the Editorial Board
1998- J. Solid State Electrochemistry (Springer) Member of the Editorial Board, Regional Editor Europe 2003-2007, Topical editor 2007-

1999- Electrochemistry Communications (Elsevier) Member of the Editorial Board

Research interest:

Modified electrodes, polymer film electrodes, conducting polymers, electroanalysis, electrosorption, electrochemical oscillations, organic electrochemistry, solid state electrochemistry, history of chemistry
Publications: 479, book: 7, book chapter: 14, citations: 3128, h-index: 36

Teaching activity:

Physical chemistry, Electroanalytical chemistry, History of Chemistry, Advanced electrochemistry lectures, Ph. D. programme: Theoretical Electrochemistry, History of Electrochemistry lectures

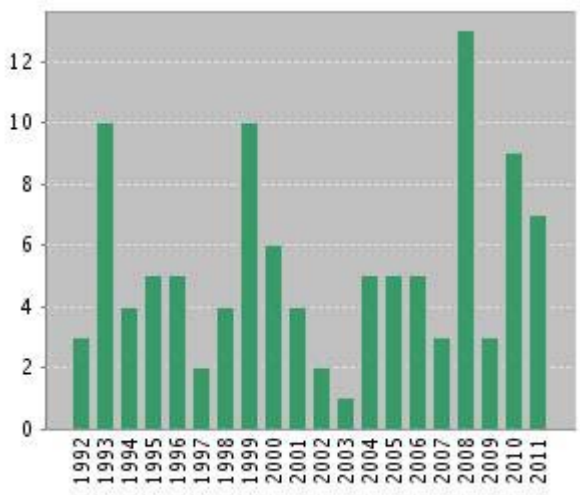
Honours:

Scientific Prize (Eötvös Univ. Faculty of Science) 1991.
Pro Universitate (Eötvös Univ.) 1997.
Széchenyi Professorship 1997-2000.
Doctor Honoris Causa, Babes-Bolyai University, Cluj, Romania, 2000.
Polányi Mihály Award (Hung.Acad.Sci.) 2004
Knight Cross of the Order of Merit of Republic of Hungary 2007
ISE Fellow 2009
Széchenyi-Prize 2011
Szilárd Leo Professorship 2011
Festschrift: Journal of Solid State Electrochemistry 2011 15 (11-12)

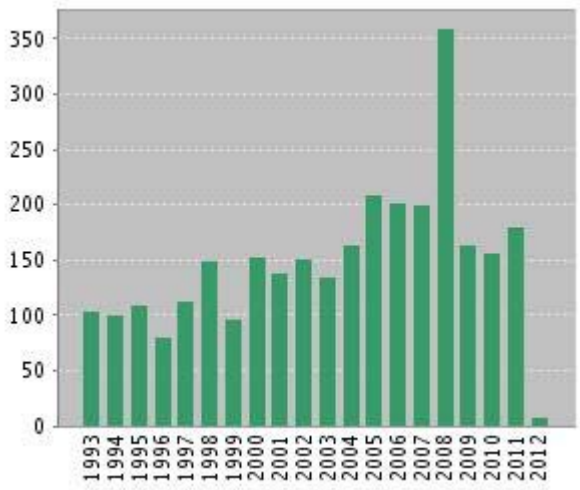
Publications: https://vm.mtmt.hu/www/index.php#
Citations: https://vm.mtmt.hu/www/index.php#

Web of Science

Published Items in Each Year



Citations in Each Year



Recent publications

E. Bura-Nakic, A. Róka, I. Ciglenecki, G. Inzelt:
Electrochemical nanogravimetric studies of sulfur/sulfide redox processes on gold surface
J. Solid State Electrochemistry, 13, 1935-1944 (2009).

G. Inzelt, A. Róka:
The Advantages of Using an Electrochemical Quartz Nanobalance to Study the Electrochemical Conversion of Solid Microparticles
Chemical and Biochemical Engineering Quaterly 23 (1): 31-41 (2009).

E. Bura-Nakic, A. Róka, I. Ciglenecki, G. Inzelt:
Electrochemical quartz crystal microbalance study of FeS particles attached to Au surface
Electroanalysis 21 (15): 1699-1708 (2009).

Á. Kriston, G. Inzelt, I. Faragó, T. Szabó:
Simulation of the transient behavior of fuel cells by using operator splitting techniques for real-time applications
Computers and Chemical Engineering 34: 339-348 (2010).

G. Inzelt, B.B. Berkes and Á. Kriston:
Two Types Dissolution of Platinum in Acid Media. An Electrochemical Nanogravimetric Study
Electrochemical Society Transactions 25 (23): 137-156 (2010).

Suzana Sopsic, Marijana Kraljic-Rokovic, Zoran Mandic, György Inzelt:
Preparation and characterization of RuO_2/polyaniline composite electrodes
J. Solid State Electrochemistry, 14: 2021-2026 (2010).

G. Inzelt, B.B. Berkes and Á. Kriston:
Temperature dependence of two types of dissolution of platinum in acid media. An electrochemical nanogravimetric study

Electrochimica Acta 55: 4742-4749; (2010).

B.B. Berkes, A. Székely and G. Inzelt:

Effect of Cs^+ ions on the electrochemical nanogravimetric response of platinum electrode in acid media

Electrochemistry Communications, 12: 1095-1098 (2010).

Ákos Kriston, Tamás Szabó, György Inzelt:

The marriage of car sharing and hydrogen economy: A possible solution to the main problems of urban living

International J Hydrogen Energy 35: 12697-12708 (2010).

G. Inzelt, B.B. Berkes, Á. Kriston and A. Székely:

Electrochemical nanogravimetric studies of platinum in acid media

J. Solid State Electrochemistry, 15, 901-915 (2011).

G. Inzelt, B.B. Berkes, Á. Kriston:

Electrochemical nanogravimetric studies of adsorption, deposition, and dissolution processes occurring at platinum electrodes in acid media

Pure Appl. Chem., 83 (2): 269-279 (2011).

Suzana Sopsic, Marijana Kraljic-Rokovic, Zoran Mandic, András Róka, György Inzelt:

Mass changes accompanying the pseudocapacitance of hydrous RuO_2 under different experimental conditions

Electrochimica Acta 56: 3543-3548 (2011).

S. Fletcher, G. Inzelt, F. Scholz:

Electrochemistry – past, present and future

J. Solid State Electrochemistry 15(7-8): 1295-1296 (2011).

G. Inzelt:

Milestones of the development of kinetics of electrode reactions

J. Solid State Electrochemistry 15: 1373-1389 (2011).

Suzana Sopsic, Zoran Mandic, György Inzelt, Marijana Kraljic-Rokovic, Ernest Mestrovic:

Ion dynamics in the pseudocapacitive reaction of hydrous ruthenium oxide. Effect of the temperature pre-treatment

J Power Sources:196: 4849-4858 (2011).

G. Inzelt:

Rise and rise of conducting polymers

J. Solid State Electrochemistry 15: 1711-1718 (2011).

A. Kriston, B.B. Berkes, P. Simon, G. Inzelt, K. Dobos and A. Nemes:

Unusual surface mass changes in the course of the oxygen reduction reaction on platinum and their explanation by using a kinetic model

J. Solid State Electrochemistry Accepted: 21 October 2011. DOI 10.1007/s10008-011-1582-6

Recent Books

G. Inzelt: Conducting Polymers – A New Era in Electrochemistry, Springer-Verlag, Berlin, Heidelberg, 2008, p. 294 ISBN 978 3 540 75929 4, 2nd edition, 2012

G.Inzelt: Electrochemical Dictionary, In: A.J.Bard, G.Inzelt, F.Scholz (eds.), Springer-Verlag, Berlin, Heidelberg, 2008 pp. 723 ISBN 978 3 540 74597 6

G. Inzelt: Electroanalytical Methods, Guide to Experiments and Applications 2nd, revised and extended edition In: F.Scholz (ed) Springer-Verlag, Berlin Heidelberg, 2010., ISBN978-3-642-02914-1, eISBN 978-3-642-02915-8, DOI 10.1007/978-3-642-02915-8

I. 3. Kinetics of Electrochemical Reactions pp. 33-53.

II. 4. Chronocoulometry pp. 147-158.

II. 10 Elecrochemical Quartz Crystal Nanobalance pp. 257-270.

IV. 1. Seminal Publications in Electrochemistry and Electroanalysis (with F.Scholz and Z.Stojek) pp. 339-342.

G. Inzelt and G.G. Láng: Electrochemical Impedance Spectroscopy (EIS) for Polymer Characterization In: Electropolymerization (eds. S. Cosnier and A. Karyakin) Wiley-VCH, Weinheim, Germany, 2010, pp. 51-76.

Inzelt: Encyclopedia of Electrochemistry (eds. A.J. Bard, M. Stratmann) Inorganic Electrochemistry Vol. 7 (eds. F. Scholz, Ch. Pickett), Weinheim, Wiley-VCH, 2006. ISBN 978 3 527 30399 1

Ch. 1 Standard potentials pp. 1-18.

Ch. 2. Standard, formal and other characteristic potentials of selected electrode reactions pp. 19-77.

Ch. 7.2. Nitrogen oxides and oxyanions pp. 241-253.

Ch. 18. The nickel group (nickel, palladium, platinum) pp. 497-529.

G. Inzelt: Encyclopedia of Electrochemistry (eds. A.J. Bard, M. Stratmann) Functions and applications of modified electrodes Vol. 10 (eds. I. Rubinstein, J. Rusling, M. Fujihara), Weinheim, Wiley-VCH, 2007. ISBN 978 3 527 30402 8

Ch. 9. Charge transport in polymer modified electrodes, pp. 651-683