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Publikationsliste Dr. –Ing. Tanja Vidaković (1998 - 2008)

Beiträge in Fachzeitschriften

Internationale Zeitschriften

[1] **T.R.Vidaković**, M.L.Avramov-Ivić, V.Z.Ivanović, S.K.Zečević, B.Ž.Nikolić, "Electrochemical Study of Metal-Tetrasulfonated Phthalocyanines Adsorbed on Gold, Platinum and Iron Electrodes and Their role in Electrochemical Oxygen Reduction*", J. Serb. Chem. Soc*., **63** (1998) 41 -51.

[2] M.L.Avramov-Ivić, **T.R.Vidaković**, B.Ž.Nikolić**,** "Catalytic Behaviour of Gold and Platinum Electrodes Modified by Formaldehyde (Iso-Propanol) in Electrooxidation of Iso-Propanol (Formaldehyde) in 0.1 M NaOH", *Materials Science Forum*, **282**-**283** (1998) 165 - 170.

[3] **T.R.Vidaković,** M.L.Avramov-Ivić, B.Ž.Nikolić, "The Influence of Iso-Propanol on the Reaction of Formaldehyde Electrooxidation or Vice Versa on Gold (100) and (111) Single Crystal Planes in Alkaline Medium", *J. Serb. Chem Soc.,* **65(12)** (2000) 915 - 922.

[4] S.Lj. Gojković**, T.R. Vidaković,** "Methanol Oxidation on an Ink Type Electrode Using Pt Supported on High Area Carbons", *Electrochim. Acta*, **47** (2001) 633 - 642.

[5] S.Lj. Gojković**, T.R. Vidaković,** D. R. Đurović, "Kinetic study of methanol oxidation on carbon supported PtRu electrocatalysts", *Electrochim. Acta*, **48** (2003) 3607-3614.

[6] V. Panić, **T. Vidaković,** S. Gojković, A. Dekanski, S. Milonjić, B. Nikolić, "The properties of carbon-supported hydrous ruthenium oxide obtained from RuOxHy sol", *Electrochim. Acta*, **48** (2003) 3805 – 3813.

[7] **T. Vidaković**, M. Christov, K. Sundmacher, "Investigation of Electrochemical Oxidation of Methanol in Cyclone Flow Cell", *Electrochim. Acta*, **49** (2004) 2179 - 2187.

[8] V. V. Panić, A. B. Dekanski, **T. R. Vidaković**, V. B. Mišković-Stanković, B. Ž. Jovanović, B. Ž. Nikolić, "Oxidation of phenol on RuO_2 – TiO_2/Ti anodes", *J. Solid State Electrochem.,* **9** (2005) 43 -54.

[9] **T. Vidaković**, M. Christov, K. Sundmacher, "Rate Expression for Electrochemical Oxidation of Methanol on a direct methanol fuel cell anode", *J. Electroanal. Chem.*, **580** (2005) 105 – 121.

[10] U. Krewer, M. Christov, **T. Vidaković**, K. Sundmacher, "Impedance Spectroscopic Analysis of the Electrochemical Methanol Oxidation Kinetics", *J. Electroanal. Chem.*, **589** (2006) 148 – 159.

[11] **T. Vidaković,** M. Christov, K. Sundmacher K.S. Nagabhushana, W. Fei, S. Kinge, H. Bönnemann, "PtRu Colloidal Catalysts: Characterisation and Determination of Kinetics for Methanol Oxidation", *Electrochim. Acta*, **52** (2007) 2277 - 2284.

[12] T. Schultz, U. Krewer, **T. Vidaković**, M. Pfafferodt, M. Christov, K. Sundmacher, "Systematic analysis of the direct methanol fuel cell", *J. Appl. Elecrtrochem*., **37** (2007) 111 - 119.

[13] **T. Vidaković**, M. Christov, K. Sundmacher, "The use of CO stripping for *in situ* fuel cell catalyst characterization", *Electrochim. Acta*, **52** (2007) 5606 - 5613.

[14] V.V. Panić, **T.R. Vidaković**, A.B. Dekanski, V.B. Mišković-Stanković and B. Ž. Nikolić, "Capacitive Properties of RuO_2 Coated Titanium Electrodes Prepared by the Alkoxide Ink Procedure", *J. Electroanal. Chem.*, **609** (2007) 120-128.
[15] I. Ivanov, **T.R. Vidaković,** K. Sundmacher, "The influence of a self-assembled monolayer on the activity of rough gold for glucose oxidation", *Electrochem. Comm*., **10** (2008) 1307 – 1310.
[16] **T. Vidaković**, M. Christov, K. Sundmacher, "A method for rough estimation of the catalyst surface area in a fuel cell", *J. Appl. Electrochem*., article in press, DOI 10.1007/s10800-008-9657-5.

Nationale Zeitschriften

[1] **T.R. Vidaković**, S.Lj. Gojković, S.K. Zečević, B.Ž. Nikolić "Electrochemical Reactors - Mathematical Models -1. Basic Aspects" (in Serbian), *Chemical Industry*, **51** (1997) 34 - 40.
[2] **T.R. Vidaković**, S.Lj. Gojković, S.K. Zečević, B.Ž. Nikolić "Electrochemical Reactors - Mathematical Models -2. Plug Flow Electrochemical Reactors " (in Serbian), *Chemical Industry*, **51** (1997) 81 - 90.
[3] **T.R. Vidaković**, S.Lj. Gojković, S.K. Zečević, B.Ž. Nikolić "Electrochemical Reactors - Mathematical Models -3. Continuous Stirred Tank Electrochemical Reactors" (in Serbian), *Chemical Industry*, **51** (1997) 133 -140.

Konferenzbeiträge

Internationale Konferenzen - Poster

[1] M.L. Avramov-Ivić, B.Ž. Nikolić, S.K. Zečević, V.Z.Ivanović, **T.R. Vidaković**, "Electrochemistry of metal tetrasulfonated phthalocyanines adsorbed on Au, Pt, GC and Fe electrodes and their role in electrochemical oxygen reduction", 46th ISE Meeting Hiamen, China, 1995.
[2] **T.R.Vidaković**, M.L.Avramov-Ivić, B.Ž.Nikolić, V.Z.Ivanović, S.K.Zečević, "Electro-chemistry of adsorbed iron- and cobalt- tetrasulfonated phthalocyanines on iron and gold electrodes", 47th ISE Meeting, Abstracts, P1a-54, Veszprem-Balatonfüred, 1996.
[3] M.L. Avramov-Ivić, **T.R. Vidaković,** B. Ž. Nikolić, "Some aspects of the electro-chemical behaviour of iso-propanol on noble metal electrodes in 0.1 M NaOH", 1997 Joint International Meeting, Meeting Abstracts, Abstract No. 873, page 1008, Paris, France, 1997.
[4] **T.R. Vidaković,** M.L. Avramov-Ivić, B.Ž. Nikolić, "The Simultaneous Electrooxidation of Formaldehyde and Iso-Propanol on Polycrystalline and Single Crystal Gold Electrodes in Alkaline Solutions", 1st International Conference on Chemical Sciences and Industry of the Chemical Societies of the South-East European Countries, Chalkidiki, Greece, June 4-8, 1998, Book of Abstracts, Volume I, PO371.
[5] **T.R. Vidaković,** M.L. Avramov-Ivić**,** B.Ž. Nikolić, "The Influence of iso-Propanol

Adsorption on the Reaction of Formaldehyde Electrooxidation or Vice Versa on Gold (100) and (111) Single Crystal Planes", 50th ISE Meetings, Pavia, Italy, September 5-10, 1999, Abstracts, P-241.

[6] **T.R. Vidaković,** S. Lj. Gojković, "Methanol Oxidation on carbon Supported PtRu in Acid Medium – Influence of the PtRu Loading", 3rd International Conference of the Chemical Societies of the South-Eastern European Countries on Chemistry in the New Millennium an Endless Frontier, Bucharest, Romania, Book of Abstracts, Vol. I, PO121.

[7] **T. Vidaković,** V. Panić, S. Gojković, A. Dekanski, S. Milonjić, V. B. Mišković-Stanković, B. Nikolić, "The Properties of Carbon Supported RuOxHy catalyst", 4th International Conference, Electrocatalysis from Theory to Industrial Applications (ECS'02), Como, Italy, 23-25 September 2002, Abstracts, PI16.

[8] **T. Vidaković**, M. Christov, K. Sundmacher, H. Bönnemann, "PtRu Methanol Fuel Cell Catalysts – Influence of Synthetic Procedures", 13th International Congress on Catalysis, Paris France, 11-16 July 2004, Book of Abstracts 2, P3 – 103, p 195.

[9] E. H. Yu, K. Scott, **T. Vidaković**, K. Sundmacher, "Glucose oxidation on enzyme immobilised gold electrodes prepared by electrodeposition", 10th Fischer Symposium on Electrochemical Aspects of Biological and Nanoscopic Structures, Benediktbeuern, Germany, 23-28 July, 2006, Book of Abstracts, p.76.

[10] I. Ivanov, **T.R. Vidaković,** K. Sundmacher, "The influence of SAM's on gold activity for glucose oxidation", 59th Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 7 – 12, 2008.

Internationale Konferenzen - Vorträge (Vortragender unterstrichen)

[1] **T. Vidaković**, M. Christov, K. Sundmacher, "Electrochemical Oxidation of Methanol in Cyclone Flow Cell", ISE 55th Annual Meeting, Thessaloniki, Greece, September 19-24 2004, Book of Abstracts II, Symposium 6, p. 769.

[2] **T. Vidaković**, M. Christov, K. Sundmacher, K. Nagabhushana, Wen Fei, S. Kinge, H. Bönnemann, "PtRu Colloidal Catalysts: Characterisation and Determination of Kinetics for Methanol Electrooxidation", 3rd Gerischer Symposium, Berlin, Germany, July 6-8, 2005, Electrocatalysis: Theory and Experiment, p. 38.

[3] **T. Vidaković**, U. Krewer, M. Christov, K. Sundmacher, Determination of a rate expression for Electrochemical Oxidation of Methanol, Interntional Symposium on Surface Imaging/Spectroscopy at the Solid/Liquid Interface, Krakow, Poland, May 28 – June 1, 2006, Book of Abstracts, L-56.

[4] **T. Vidaković**, M. Christov, K. Sundmacher, Can CO stripping voltammetry be used as a quantitative method for in situ fuel cell catalyst characterisation?", 57th Annual Meeting of the International Society of Electrochemistry, Edinburgh, Great Britain, August 27 – September 1, 2006, Book of Abstracts, S10 O-3.

[5] I. Ivanov, **T. Vidaković**, K. Sundmacher, „Glucose Oxidation: Electrocatalysis *vs*. Bioelectrocatalysis", 58th Annual Meeting of the International Society of Electrochemistry, Banff, Canada, September 9 – 14, 2007.

[6] **T. Vidaković,** "Biofuel cells: Prospects and Current limitations", Indo-German Workshop on Advances in Reaction and Separation Processes, Madras, India, February 18 – 20, 2008.

[7] Ivan Ivanov, **Tanja Vidaković**, Kai Sundmacher, “Glucose Electrooxidation for Biofuel Cell Applications“, First Regional Symposium on Electrochemistry of South-East Europe, Crveni Otok, Rovinj, Istria, Croatia, May 4-8, 2008.
[8] B. Bensmann, M. Petkovska, R. Hanke-Rauschenbach, **T. Vidaković**, K. Sundmacher, “Use of nonlinear frequency response analysis for model discrimination: Example – DMFC anode kinetics“, 18th International Congress of Chemical and Process Engineering, CHISA 2008, Prague, Czech Republic, August 24 – 28, 2008.

Inländische Konferenzen -Vorträge (Vortragender unterstrichen)

[1] **T.R. Vidaković**,V.Z. Ivanović, M.L. Avramov-Ivić, S.K. Zečević, B.Ž. Nikolić "Tetra-sulfonated Iron and Cobalt Phthalocyanines in Oxygen Reduction" (in Serbian), XIII Yugoslav Symposium of Electrochemistry, Vrnjačka Banja, 1995.
[2] **T.R. Vidaković**, V.Z. Ivanović, M.L. Avramov-Ivić, S.K. Zečević, B.Ž. Nikolić "Electrochemical Behaviour of Adsorbed Iron and Cobalt Tetrasulfonated Phthalo-cyanines on Metal Electrodes" (in Serbian), XXXVIII Meeting of Serbian Chemical Society, Book of Abstracts, EH-9, p.187, Beograd, 1996.
[3] M.L. Avramov-Ivić, **T.R. Vidaković**, B.Ž. Nikolić, "Catalytic Behaviour of Gold and Platinum Electrodes Modified by Formaldehyde (Iso-Propanol) in Electrooxidation of Iso-Propanol(Formaldehyde) in 0.1 M NaOH" (in Serbian), II Yugoslav Conference of Advanced Materials and Processes, Book of Abstracts, USA.VII.5, p.36, Herceg Novi, 1997.
[4] **T.R. Vidaković,** M.L. Avramov-Ivić, B.Ž. Nikolić, "The Influence of Iso-propanol on the Reaction of Electrooxidation of Formaldehyde on Gold (100) Single Crystal Face in 0.1 M NaOH" (in Serbian) XIV Yugoslav Symposium of Electrochemistry, Bečići, 15-18 June 1998, Book of Abstracts, 47-49.
[5] **T.R. Vidaković,** M.L. Avramov-Ivić, B.Ž. Nikolić, "The Simultaneous Electrochemical Oxidation of Formaldehyde and Iso-Propanol on Platinum in Alkaline Medium", XXXIX Meeting of Serbian Chemical Society, Book of Abstracts, EH-4, p.241, Beograd, 1999.