

#### **Selected Academic References - CATALYSIS**

## G 1. Characterization of Titania Surface Area in Mixed Oxide Systems by Temperature Programmed Reaction of 2-Propanol

J E Swain, M V Juskelis, J P Slanga, J G Miller, M Uberoi W R Grace & Co, Conn. 7379 Rt. 32, Columbia, MD 21044, USA

#### G 2. The Nature of the Active Metal Surface of Catalysts for the Clean Combustion of Biogas Containing Ammonia

Robbie Burch, Barry W L Southward\* School of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, N. Ireland. *Journal of Catalysis*, 198, 2001, p286

## G 3. A Novel Application of Trapping Catalysts for the Selective Low-Temperature Oxidation of NH<sub>3</sub> to N<sub>2</sub> in Simulated Biogas

Robbie Burch, Barry W L Southward\* School of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, N. Ireland. Journal of Catalysis, 195, 2000, p.217-226. See also 'Chemistry in Britain' 36 (8) Aug. 2000

## G 4. Catalytic Combustion of N-Bearing Gasified Biomass with Low NOx Emissions Using Heteropoly Redox-Acid Catalysts

Robbie Burch<sup>+</sup>, Barry W L Southward\*

Catalysis Research Centre, Dept of Chemistry, University of Reading, Whiteknights, Reading, RG6 6AD, UK

<sup>+</sup>Now at School of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, N. Ireland. *Chemical Communications*, 2000, p. 1475. See also New Scientist magazine 28/8/99

## G 5. Adsorption & reaction induced morphological changes of the copper surface of a methanol synthesis catalyst

R A Hadden<sup>a</sup>, B Sakakini, J Tabatabaei, K C Waugh Department of Chemistry, UMIST, P.O. Box 88, Manchester, M60 1QD, UK <sup>a</sup>ICI Katalco R T & E, P.O. Box 1, Billingham, Cleveland, TS23 1LB, UK Received 3 September 1996; accepted 31 January 1997

## G 6. Surface Reactions of CH<sub>3</sub>I & CF<sub>3</sub>I with Coadsorbed CH<sub>2</sub>I<sub>2</sub> on Ag(111) as Mechanistic Probes for Carbon-Carbon Bond Formation via Methylene Insertion

Hsiao-Jung Wu, Heng-Kai Hsu, Chao-Ming Chiang

Contribution from the Department of Chemistry, National Sun Yat-Sen University, Kaohsiung, Taiwan 80424

Journal of the American Chemical Society, 121 (18) 2000, p. 4433-4442

## G 7. Computer processing of thermogravimetric-mass spectrometric & high pressure thermogravimetric data. Part 1. Smoothing & differentiation

Gábor Várgegyi, Ferenc Till

Research Laboratory of Materials & Environmental Chemistry, Chemical Research Centre Hungarian Academy of Sciences, P.O. Box 17, Budapest 1525, Hungary

Received 26 May 1998; received in revised form 30 November 1998; accepted 15 January 1999

## G 8. A Study of the Kinetics & Mechanism of the Adsorption & Anaerobic Partial Oxidation of *n*-Butane over a Vanadyl Pyrophosphate Catalyst

B H Sakakini,\* Y H Taufiq-Yap,\*, K C Waugh\*

\*Department of Chemistry, UMIST, P.O. Box 88, Manchester, M60 1QD, UK

<sup>+</sup>Department of Chemistry, Universiti Putra Malaysia, 43400 UPM Serdang, Malaysia

Received September 23, 1998; revised February 1999; accepted March 29, 1999

## G 9. The detailed kinetics of the adsorption of hydrogen on polycrystalline copper studied by reactive frontal chromatography

J Tabatabaei<sup>a</sup>, B H Sakakini<sup>a</sup>, M J Watson<sup>b</sup>, K C Waugh<sup>a</sup>

<sup>a</sup>Department of Chemistry, Faraday Building, UMIST, P.O. Box 88, Manchester, M60 1QD, UK

<sup>b</sup>ICI Katalco R T & E, P.O. Box 1, Billingham, Cleveland, UK

Received 18 December 1998; accepted 17 March 1999

#### G 10. The detailed kinetics of the desorption of hydrogen from polycrystalline copper catalysts

J Tabatabaei<sup>a</sup>, B H Sakakini<sup>a</sup>, M J Watson<sup>b</sup>, K C Waugh<sup>a</sup>

<sup>a</sup>Department of Chemistry, Faraday Building, UMIST, P.O. Box 88, Manchester, M60 1QD, UK

<sup>b</sup>ICI Katalco R T & E, P.O. Box 1, Billingham, Cleveland, UK

Received 18 December 1998; accepted 17 March 1999

## G 11. Characterization & catalytic properties of Pt/TiO<sub>2</sub> catalyst prepared by photochemical deposition

Shu-Ha Chien<sup>a,b</sup>, Kwa-Nal Lu<sup>a,b</sup>, Bor-Jih Lee<sup>a</sup>, Been-Chih Liou<sup>a,c</sup>

<sup>a</sup>Institute of Chemistry, Academia Sinica, Taipei 115, Taiwan, ROC

<sup>b</sup>Department of Chemistry, National Taiwan University, Taipei 107, Taiwan, ROC

<sup>c</sup>Department of Chemistry, Fu-Jen Catholic University, Taipei 510, Taiwan, ROC

#### G 12. Selective & Facile C-F Bond Activation of Trifluoromethyl Groups on Cu(111)

Ya-Ching Hou, Chao-Ming Chiang

Department of Chemistry, National Sun Yat-Sen University, Kaohsiung, Taiwan 80424 *Journal of the American Chemical Society*, 121 (35) p. 8116-8117

## G 13. A study of the mechanism of selective conversion of ammonia to nitrogen on Niγ-A1<sub>2</sub>O<sub>3</sub> under strongly oxidizing conditions

M Amblard, R Burch, B W L Southward\*

Catalysis Research Centre, Dept of Chemistry, The University of Reading, Whiteknights, Reading, RG6 6AD

Reprinted from Catalysis Today Volume 5 (2000), Pages 365-371

#### G 14. A study of the activation of carbon using sample controlled thermal analysis

E A Dawson<sup>1</sup>, G M B Parkes<sup>1</sup>, P A Barnes<sup>1</sup>, M J Chinn<sup>2</sup>, P R Norman<sup>1</sup>

<sup>1</sup>Centre for Applied Catalysis, University of Huddersfield, HD1 3DH, UK

<sup>2</sup>CBD, Salisbury, SP4 0JQ, UK

Journal of Thermal Analysis and Calorimetry, Vol. 56 (1999) 267-273

#### G 15. Catalyst characterization by temperature-programmed/transient methods

Alessandro Trovarelli

Dipartimento di Scienze e Technologie Chimiche, Università di Udine, via Cotonificio 108, I-33100 Udine, Italy

6<sup>th</sup> Italian Seminar on Catalysis Giacomo Fauser, Gardo, June 18-23, 2001, Pages 220-233

#### G 16. Miniaturization of screening devices for the combinatorial development of heterogeneous catalysts

Peter Claus\*, Dieter Hönicke, Torsten Zech

\*Institute for Applied Chemistry, Berlin-Adlershof, D-12489 Berlin, German

Department of Industrial Chemistry, Chemnitz University of Technology, D-09107 Chemnitz, Germany

Catalysis Today 67 (2001), pages 319-339

#### G 17. Clean catalytic combustion of nitrogen-bearing gasified biomass

R Burch, B W L Southward

Catalysis Research Group, Department of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, Northern Ireland, UK

Chem. Commun., 2000, 703-704

## G 18. An investigation of the selective oxidation of $NH_3$ to $N_2$ in gasified biomass in the presence of excess CO and $H_2$ using zeolite catalysis

M Amblard, R Burch, B W L Southward

School of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, Northern Ireland, UK Catalysis Letters 68 (2000), 105-108

#### G 19. Maximum entropy decomposition of quadrupole mass spectra

U v Toussaint<sup>1</sup>, V Dose<sup>1</sup>, A Golan<sup>2</sup>,

<sup>1</sup>Centre for Interdisciplinary Plasma Science, Max-Planck-Institut für Plasmaphysik, EURATOM Association, Boltzmannstrasse 2, D-85748 Garching, Germany

<sup>2</sup> American University, Roper 200, 4400 Massachusetts Avenue, NW Washington, DC 20016-8029, USA

J. Vac. Sci. Technol. A 22(2), Mar/Apr 2004, pages 401-406

#### G 20. Determination of the kinetics of the reaction of CC1<sub>4</sub> with prefluorided Cr<sub>s</sub>O<sub>3</sub> and evaluation of the active site area

A Farrokhnia, B Sakakini, K C Waugh\*

Department of Chemistry, Faraday Building, UMIST, PO Box 88, Manchester, M60 1QD, UK Catalysis Letters Vol 76, No. 3-4, 2001

#### G 21. The partial oxidation of CH<sub>3</sub>OH to CO<sub>2</sub> and H<sub>2</sub> over a Cu/ZnO/Al<sub>2</sub>O<sub>3</sub> catalyst

S Ellis, B H Sakakini<sup>1</sup>, R Torbati, K C Waugh<sup>1</sup>

Johnson Matthey Technology Centre, Blounts Court, Sonning Common, Reading, Berks, RG4 9NH, UK

<sup>1</sup>Department of Chemistry, Faraday Building, UMIST, PO Box 88, Manchester, M60 1QD, UK *Catalysis Letters Vol* 82, *No.* 3-4, *October* 2002

#### G 22. Comparison of selective catalytic reduction of NO with C<sub>3</sub>H<sub>6</sub> and C<sub>3</sub>H<sub>8</sub> over Cu(II)-ZSM-5.

Seung-Kyu Park, Yong-Ki Park, Sang-Eon Park and Larry Kevan\*a

<sup>a</sup>Department of Chemistry, University of Houston, Houston, Texas 77204-5641, USA

<sup>b</sup>Industrial Catalysis Research Lab, KRICT, Taejon, 305-606, South Korea.

Phys. Chem. Chem. Phys. . 2000. 2, 5500-5509

#### G 23. Influence of support and promoter on the catalytic activity of Rh/VO<sub>x</sub>/SiO<sub>2</sub> model catalysts

Andreas Kohl, ab Christian Linsmeier, Edmund Taglauer\* and Helmut Knözinger

<sup>a</sup>Max-Planck-Institut für Plasmaphysik, EURATOM Association, Boltzm, annstrasse 2, D-85748 Garching bei München, Germany.

<sup>b</sup>Department Chemie, Universität München, Butenandstr. 5-13, Haus E, D-81377 München, Germany.

Phys. Chem. Chem. Phys., 2001, 3, 4639-4643

#### G 24. On the mechanism of methanol synthesis and the water-gas shift reaction on ZnO

J. Tabatabaei, ab\* B.H. Sakakini, and K.C. Waugh

<sup>a</sup>School of Chemistry, University of Manchester, Faraday Building, Sackville Street, Manchester M60 10D

<sup>b</sup>Davy Process Technology, Technology Centre, Princeton Drive, Stockton-on-Tees TS17 6PY Catalysis letters Vol. 110, Nos. 1-2 August, 20062 (c2006)

## G 25 The activity and selectivity of oxygen atoms adsorbed on a Ag/α-A1<sub>2</sub>0<sub>3</sub> catalyst in ethane epoxidation

J. Couves, a\* M. Atkins, M. Hague, B.H. Sakakini, K.C. Waugh

<sup>a</sup>BP Chemicals, Poplar House, Chertsey Road, Sunbury-on-Thames, Middlesex TW16 7LL, UK

<sup>b</sup>BP Chemicals, Saltend Lane, Kingston-upon-Hull HU12 8DS, UK

<sup>c</sup>Department of Chemistry, UMIST, P.O. Box 88, Manchester M60 1QD, UK.

Catalysis letters Vol. 99, Nos. 1-2, January 2005 (c2005)

#### G 26. The selective oxidation of methanol to formaldehyde on iron molybdate ctaalysis

M. Bowker\*, R. Holroyd, A. Elliott, P. Morrall, A. Alouche<sup>b</sup>, C. Entwistle<sup>c</sup>, and A. Toerncron Department of Chemistry, University of Reading, Whiteknights, Reading RG6 6AD, England <sup>b</sup>Chem. Dept., Al-Baath University, Syria

<sup>c</sup>Now at Chemistry Dept., Univ. Durhm, England.

<sup>d</sup>Perstorp AB, S-284 80, Perstorp, Sweden.

Catalysis letters Vol. 83, Nos. 3-4, November 2002 (c20025)

#### G 27 An Investigation of possible mechanisms for the water-gas shift reaction over a ZrO<sub>2</sub>-supported Pt catalyst

D Tibiletti<sup>a</sup>, F C Meunier<sup>a\*</sup>, A Goguet<sup>a</sup>, D Reiod<sup>a</sup>, R Burch<sup>a</sup>, M Boaro<sup>b</sup>, M Vicario<sup>b</sup>, A Trovarelli<sup>b</sup> <sup>a</sup> CenTACat, School of Chemistry and Chemical Engineering, Queen's University Belfast, BT9 5AG, Northern Ireland.

<sup>b</sup> Dipartimento di Scienze e Tecnologie Chimiche, Università di Udine, 33100 Udine, Italy. *Journal of Catalysis*, 244 (2006) p.183-191

## G 28 On the complexity of the water gas shift reaction mechanism over a Pt/CeO<sub>2</sub> catalyst: Effect of the temperature on the reactivity of formate surface species studied by operando DRIFT during isotopic transient at chemical steady-state

F C Meunier, D Tibiletti, A Goguet, S Shekhtman. C Hardacre, R Burch CenTACat, School of Chemistry and Chemical Engineering, Queen's University Belfast, BT9 5AG, Northern Ireland.

Catalysis Today – ARTICLE IN PRESS

#### G 29 Identifying critical factors in the regeneration of NOχ-trap materials under realistic conditions. Using fast transient techniques

J P Breen\*, C Rioche, R Burch, C Hardacre, F C Meunier

CenTACat, School of Chemistry and Chemical Engineering, Queen's University Belfast, BT9 5AG, Northern Ireland.

Applied Catalysis B: Environmental 72 (2006) p.178-186

#### G 30 Selective reduction of NO<sub>2</sub> by liquid hydrocarbons with supported HPW-metal catalysts

M A Gómez García\*<sup>1</sup>, S Thomas, V Pitchon, A Kiennemann

LMSPC, Laboratoire de Matériaux, Surfaces et Procédés pour la Catalyse, UMR 7515 du CNRS-ECPM-ULP, 25 Rue Becquerel, 67087 Strasbourg Cedex 2, France Catalysis Today 119 (2007) p.52-58

## G 31 Structures and Properties of Zirconia-Supported Ruthenium Oxide Catalysts for the Selective Oxidation of Methanol to Methyl Formate

Weizhen Li,† Haichao Liu,\*,† and Enrique Iglesia‡

Beijing National Laboratory for Molecular Sciences, State Key Laboratory for Structural Chemistry of Stableand Unstable Species, College of Chemistry and Molecular Engineering, Green Chemistry Center, Peking, UniVersity, Beijing 100871, China, and Department of Chemical Engineering, UniVersity of California at Berkeley, Berkeley, California 94720 *J. Phys. Chem. B* 2006, 110, 23337-23342

## G 32 Micro-kinetic analysis of direct N2O decomposition over steam-activated Fe-silicalite from transient experiments in the TAP reactor

Evgenii V. Kondratenko a,\*, Javier Pe´rez-Ramı´rez b,\*

<sup>a</sup> Leibniz-Institut fu'r Katalyse e. V. an der Universita't Rostock, Aussenstelle Berlin, Richard-Willsta'tter-Str. 12, D-12489 Berlin, Germany

<sup>b</sup> Laboratory for Heterogeneous Catalysis, Catalan Institution for Research and Advanced Studies (ICREA) and Institute of Chemical Research of Catalonia (ICIQ), Av. Pai sos Catalans 16, E-43007, Tarragona, Spain

Catalysis Today 121 (2007) 197-203

## G 33 Conformational Analysis of Sulfate Species on Ag/Al2O3 by Means of Theoretical and Experimental Vibration Spectra

Qiang Wu, Hongwei Gao, and Hong He\*

State Key Laboratory of EnVironmental Chemistry and Ecotoxicology, Research Center for Eco-EnVironmental Sciences, Chinese Academy of Sciences, Beijing 100085, China *J. Phys. Chem. B* 2006, 110, 8320-8324

#### G 34 Factors affecting CO oxidation over nanosized Fe2O3

K.S. Abdel Halim a,\*, M.H. Khedr b, M.I. Nasr a, A.M. El-Mansy b

<sup>a</sup> Central Metallurgical Research & Development Institute (CMRDI), P.O. Box 87, Helwan, Cairo, Egypt

<sup>b</sup> Materials Chemistry Department, Faculty of Science, Beni Suef University, Egypt *Materials Research Bulletin 42 (2007) 731–741* 

#### G 35 Isothermal reduction behavior of Fe2O3/MnO composite materials with solid carbon

K.S. Abdel Halim \*

Central Metallurgical Research & Development Institute (CMRDI), P.O. Box 87, Helwan, Cairo, Egypt

Materials Science and Engineering A 452–453 (2007) 15–22

#### G 36 The devolatilisation of particles of a complex fuel (dried sewage sludge) in ab fluidised bed

S.A. Scott\*, J.F. Davidson, J.S. Dennis, A.N. Hayhurst Department of Chemical Engineering, University of Cambridge, UK Chemical Engineering Science 62 (2007) 584 – 598

## G 37 The influence of silver on the structural, redox and catalytic properties of the ryptomelane-type manganese oxides in the low-temperature CO oxidation reaction

Wojciech Gac

Applied Catalysis B: Environmental

#### G 38 The influence of the preparation methods and pretreatment conditions on the properties of Ag-MCM-41 catalysts

W. Gac<sup>a</sup>, \*, A. Derylo-Marczewska<sup>b</sup>, S. Pasieczna-Patkowska<sup>a</sup>, N. Popivnyak <sup>b</sup>, G. Zukocinski <sup>b</sup>

- <sup>a</sup> Maria Curie-Skłodowska University, Faculty of Chemistry, Department of Chemical Technology 3 Maria Curie-Skłodowska Sq., 20-031 Lublin, Poland
- <sup>b</sup> Maria Curie-Skłodowska University, Faculty of Chemistry, Department of Adsorption,
- 3 Maria Curie-Skłodowska Sq., 20-031 Lublin, Poland

Journal of Molecular Catalysis A: Chemical 268 (2007) 15–23

#### G 39 Thermal decomposition of flame retarded polycarbonates

J. Bozi, Zsuzsanna Czégény \*, E. Mészáros, M. Blazso´

Institute of Materials and Environmental Chemistry, CRC, Hungarian Academy of Sciences, H-1525, P.O. Box 17, Budapest, Hungary

J. Anal. Appl. Pyrolysis xxx (2007) xxx–xxx

#### G 40 Nanosized Nickel(or Cobalt)/Graphite Composites for Hydrogen Storage

Z. Y. Zhong, Z. T. Xiong, L. F. Sun, J. Z. Luo, P. Chen, X. Wu, J. Lin,\* and K. L. Tan Department of Physics, Surface Science Laboratory, National UniVersity of Singapore, 10 Kent Ridge Crescent, Singapore 117542 *J. Phys. Chem. B* 2002, 106, 9507-9513

#### G 41 A Kinetic and Mechanistic Study of the Cl/F Exchange Reaction of CCl3F, CCl2F2, and CClF3 with Prefluorided Chromia

A. Farrokhnia, B. Sakakini, and K. C. Waugh\*
Department of Chemistry, Faraday Building, UMIST, PO Box 88, Manchester M60 1QD, U.K. *J. Phys. Chem. B* 2002, 106, 9567-9575

#### G 42 Selective poisoning of active centers of sulfated zirconia monitored by TAP, XPS, and DRIFTS Cornelia Breitkopf \*, Silke Matysik, Helmut Papp

Institut fuer Technische Chemie, Universitaet Leipzig, Linnestr. 3, D-04103 Leipzig, Germany *Applied Catalysis A: General 301 (2006) 1–8* 

#### G 43 Structural and thermal study of carbon-modified molybdenum sub-oxide catalysts

G. Rodríguez-Gattorno <sup>a</sup>, A. Martínez-Hernández <sup>b</sup>, L.O. Aleman-Vázquez <sup>a</sup>, E. Torres-García <sup>a</sup>,\* <sup>a</sup> Instituto Mexicano del Petróleo, Eje Lázaro Cárdenas 152, San Bartolo Atepehuacan, 07730 México, D.F., México

b Universidad Autónoma de Nuevo León, Facultad de Ciencias Químicas, Pedro de Alba s/n, Cd. Universitaria, San Nicolás de los Garza, N.L., México *Applied Catalysis A: General 321 (2007) 117–124* 

#### G 44 Acid strengths and catalytic activities of sulfonic acid on polymeric and silica supports

P.F. Siril, A.D. Davison, J.K. Randhawa, D.R. Brown\*

Department of Chemical and Biological Sciences, University of Huddersfield, Huddersfield HD1 3DH, UK

Journal of Molecular Catalysis A: Chemical 267 (2007) 72–78

## G 45 Embedded Rh(1 wt.%)@Al2O3: Effects of high temperature and prolonged aging under methane partial oxidation conditions

T. Montini <sup>a</sup>, A.M. Condò <sup>b,c</sup>, N. Hickey <sup>a</sup>, F.C. Lovey <sup>b</sup>, L. De Rogatis <sup>a</sup>, P. Fornasiero <sup>a,\*</sup>, M. Graziani <sup>a</sup>

- <sup>a</sup> Chemistry Department, INSTM-Trieste and Centre of Excellence for Nanostructured Materials University of Trieste, Via L. Giorgieri 1, I-34127 Trieste, Italy
- <sup>b</sup> Centro Atómico Bariloche, 8400 San Carlos de Bariloche, Argentina
- <sup>c</sup> Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina

Applied Catalysis B: Environmental 73 (2007) 84–97

## G 46 **Design and operation of a high pressure reaction cell for in situ X-ray absorption spectroscopy** Simon R. Bare <sup>a</sup>,\*, Ning Yang <sup>b</sup>, <sup>1</sup>, Shelly D. Kelly <sup>c</sup>, George E. Mickelson <sup>a</sup>,

Frank S. Modica a

<sup>a</sup>UOP LLC, Des Plaines, IL 60016, USA

- <sup>b</sup> Argonne National Laboratory, Argonne, IL 60439, USA
- <sup>c</sup> EXAFS Analysis, Bolingbrook, IL 60439, USA

Catalysis Today xxx (2006) xxx-xxx

#### G 47 Catalytic decomposition of N2O over CeO2 promoted Co3O4 spinel catalyst

Li Xue<sup>a</sup>, Changbin Zhang<sup>a</sup>, Hong He<sup>a</sup>\*, Yasutake Teraoka<sup>b</sup>

<sup>a</sup>State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences,

Chinese Academy of Sciences, Beijing 100085, China

<sup>b</sup>Department of Energy and Material Sciences, Faculty of Engineering Sciences, Kyushu University, Kasuga, Fukuoka 816-8580, Japan

Applied Catalysis B: Environmental, 75, 2007, p. 167–174

#### G 48. Structure–activity relations in Cs-doped heteropolyacid catalysts for biodiesel production

K. Narasimharao<sup>a</sup>, D.R. Brown<sup>b</sup>, A.F. Lee<sup>a</sup>, A.D. Newman<sup>a</sup>, P.F. Siril<sup>b</sup>, S.J. Tavener<sup>a</sup>, K. Wilson<sup>a,\*</sup>
<sup>a</sup>Department of Chemistry, University of York, Heslington, York, YO10 5DD, UK

<sup>b</sup>Department of Chemical & Biological Sciences, University of Huddersfield, Queensgate, Huddersfield, HD1 3HD, UK

Journal of Catalysis, 248, 2007, p. 226–234

#### G 49. TiO2 nanopowders doped with boron and nitrogen for photocatalytic applications

V. Gombac<sup>a</sup>, L. De Rogatis<sup>a</sup>, A. Gasparotto<sup>b</sup>, G. Vicario<sup>a</sup>, T. Montini<sup>a</sup>, D. Barreca<sup>c</sup>,

G. Balducci<sup>a</sup>, P. Fornasiero<sup>a,\*</sup>, E. Tondello<sup>b</sup>, M. Graziani<sup>a</sup>

<sup>a</sup>Chemistry Department, INSTM – Trieste, Center of Excellence for Nanostructured Materials, University of Trieste, Trieste, Italy

<sup>b</sup>Chemistry Department, University of Padova and INSTM, Padova, Italy

<sup>c</sup>ISTM-CNR and INSTM, Chemistry Department, University of Padova, Padova, Italy *Chemical Physics*, 339, 2007, p. 111–123

#### G 50 An integrated system of biological and catalytic oxidation for the removal of o-xylene from exhaust

Lin Li, Changbin Zhang, Hong He, Junxin Liu \*

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, P.O. Box 2871, Beijing 100085, PR China

Catalysis Today, 126, 2007, p. 338–344

## G 51 An investigation of NO/CO reaction over perovskite-type oxide La0.8Ce0.2B0.4Mn0.6O3 (B = Cu or Ag) catalysts synthesized by reverse microemulsion

Hong He \*, Mei Liu, Hongxing Dai, Wenge Qiu, Xuehong Zi

Department of Chemistry and Chemical Engineering, College of Environmental and Energy Engineering,

Beijing University of Technology, Beijing 100022, China Catalysis Today, 126, 2007, p. 290–295

## G 52 Cu/ZnO/Al2O3 catalysts for oxidative steam reforming of methanol: The role of Cu and the dispersing oxide matrix

Maria Turco<sup>a,\*</sup>, Giovanni Bagnasco<sup>a</sup>, Claudia Cammarano<sup>a</sup>,

Pasquale Senese<sup>a</sup>, Umberto Costantino<sup>b</sup>, Michele Sisani<sup>b</sup>

<sup>a</sup>Dipartimento di Ingegneria Chimica, Universita` di Napoli "Federico II", P.le V. Tecchio, 80125 Napoli, Italy

<sup>b</sup>CEMIN-Dipartimento di Chimica, Universita` di Perugia, Via Elce di Sotto 8, 06123 Perugia, Italy *Applied Catalysis B: Environmental*, 77, 2007, p. 46–57

#### G 53 Mechanism of ammonia oxidation over oxides studied by temporal analysis of products

Javier Pérez-Ramírez a,b,\*, Evgenii V. Kondratenko c,

<sup>a</sup>Institute of Chemical Research of Catalonia (ICIQ), Av. Països Catalans 16, 43007 Tarragona, Spain <sup>b</sup>Catalan Institution for Research and Advanced Studies (ICREA), Pg. Lluís Companys 23, 08010 Barcelona, Spain

<sup>c</sup>Leibniz-Institut für Katalyse e.V. an der Universität Rostock, Aussenstelle Berlin, Richard-Willstätter-Str. 12, 12489 Berlin, Germany

Journal of Catalysis, 250, 2007, p. 240–246

## Manosized perovskite-type oxides La1\_xSrxMO3\_d (M = Co, Mn; x = 0, 0.4) for the catalytic removal of ethylacetate

Jianrong Niu, Jiguang Deng, Wei Liu, Lei Zhang, Guozhi Wang, Hongxing Dai \*, Hong He, Xuehong Zi

Laboratory of Catalysis Chemistry and Nanoscience, Department of Chemistry and Chemical Engineering, College of Environmental and Energy Engineering, Beijing University of Technology, Beijing 100022, PR China

Catalysis Today, 126, 2007, p. 420-429

## G 55 Promotion effect of residual K on the decomposition of N2O over cobalt–cerium mixed oxide catalyst

Li Xue<sup>a</sup>, Changbin Zhang<sup>a</sup>, Hong He<sup>a</sup>\*, Yasutake Teraoka<sup>b</sup>

<sup>a</sup>State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

<sup>b</sup>Department of Energy and Material Sciences, Faculty of Engineering Sciences, Kyushu University, Kasuga, Fukuoka 816-8580, Japan

Catalysis Today, 126, 2007, p. 449-455

#### G 56 Selective catalytic oxidation of ammonia from MAP decomposition

Shilong He, Changbin Zhang, Min Yang, Yu Zhang, Wenqing Xu, Nan Cao, Hong He\* Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 18 Shuangqing Road, P.O. Box 2871, Beijing 100085, China Separation and Purification Technology, 58, 2007, p. 173–178

## G 57 **Synthesis of CeO2–MnOx mixed oxides and catalytic performance under oxygen-rich condition** Xiaodong Wu \*, Qing Liang, Duan Weng, Jun Fan, Rui Ran

Laboratory of Advanced Materials, Department of Materials Science and Engineering, Tsinghua University, Beijing 100084, China

Catalysis Today, 126, 2007, p. 430-435

# G 58 **Significant impact of nitric acid treatment on the cathode performance of Ba0.5Sr0.5Co0.8Fe0.2O3**–δ **perovskite oxide via combined EDTA**–**citric complexing process**Wei Zhou, Ran Ran, Zong Ping Shao \*, Hong Xia Gu, Wan Qin Jin, Nan Ping Xu College of Chemistry and Chemical Engineering, Nanjing University of Technology, No. 5 Xin Mofan Road, Nanjing 210009, Jiangsu, PR China *Journal of Power Sources*, 174, 2007, p. 237–245

#### G 59 Hydrogen dissociation on oxide covered MgH2 by catalytically active vacancies

A. Borgschulte<sup>a,\*</sup>, M. Bielmann<sup>a</sup>, A. Zu"ttel<sup>a</sup>, G. Barkhordarian<sup>b</sup>, M. Dornheim<sup>b</sup>, R. Bormann<sup>b</sup> aEMPA, Materials Science and Technology, Laboratory 138, Hydrogen & Energy, U" berlandstrasse 129, CH-8600 Du"bendorf, Switzerland

<sup>b</sup>GKSS-Research Center Geesthacht GmbH, WTP, Building 59, Max-Planck-Strasse 1, 21502 Geesthacht, Germany

Applied Surface Science – Article in Press

#### G 60 New polystyrene sulfonic acid resin catalysts with enhanced acidic and catalytic properties P.F. Siril<sup>1</sup>, H.E. Cross, D.R. Brown\*

Department of Chemical and Biological Sciences, University of Huddersfield, Huddersfield, HD1 3DH, UK

Journal of Molecular Catalysis A: Chemical, 279, 2008, p. 63–68

#### G 61 A comparative investigation on the properties of Cr-SBA-15 and CrOx/SBA-15

Lei Zhang<sup>a</sup>, Yanhui Zhao<sup>a</sup>, Hongxing Dai<sup>a,\*</sup>, Hong He<sup>a</sup>, C.T. Au<sup>b,\*</sup>

<sup>a</sup>Laboratory of Catalysis Chemistry and Nanoscience, Department of Chemistry and Chemical Engineering,

College of Environmental and Energy Engineering, Beijing University of Technology, Beijing 100022, China

<sup>b</sup>Department of Chemistry, Center for Surface Analysis and Research, Hong Kong Baptist University, Kowloon Tong, Hong Kong, China Catalysis Today – Article in Press

#### G 62 An investigation of NO/CO reaction over perovskite-type oxide La0.8Ce0.2B0.4Mn0.6O3 (B = Cu or Ag) catalysts synthesized by reverse microemulsion

Hong He \*, Mei Liu, Hongxing Dai, Wenge Qiu, Xuehong Zi Department of Chemistry and Chemical Engineering, College of Environmental and Energy Engineering, Beijing University of Technology, Beijing 100022, China Catalysis Today, 126, 2007, p. 290–295

#### G 63 Coral-like nanostructured a-Mn2O3 nanaocrystals for catalytic combustion of methane. Part I. Preparation and characterization

Yi-Fan Han \*, Luwei Chen, Kanaparthi Ramesh, Ziyi Zhong, Fengxi Chen, Jianhau Chin, Hongwai Mook

Institute of Chemical and Engineering Sciences, 1 Pesek Road, Jurong Island 627833, Singapore Catalysis Today – Article in Press

## G 64 Re-investigating the CO oxidation mechanism over unsupported MnO, Mn2O3 and MnO2 catalysts

Kanaparthi Ramesh, Luwei Chen, Fengxi Chen, Yan Liu, Zhan Wang, Yi-Fan Han \* Institute of Chemical and Engineering Sciences (ICES), 1 Pesek Road, Jurong Island, Singapore 627833, Singapore

Catalysis Today – Article in Press

#### G 65. Soft ionisation analysis of evolved gas for oxidative decomposition of an epoxy resin/carbon fibre composite.

G Jiang\*, S J Pickering, G S Walker, N Bowering, K H Wong, C D Rudd.

School of Mechanical Materials and Manufacturing Engineering, The University of Nottingham, Nottingham NG7 2RD, UK

Science Direct – Thermochimica Acta 454 (2007) p. 109 - 115

# G 66. Insight into the key aspects of the regeneration process in the NOX Storage Reduction (NSR) reaction probed using fast transient kinetics coupled with isotopically labelled 15NO over Pt and Rh-containing Ba/Al2O3 catalysts

J P Breen\*, R Burch, C Fontaine-Gautrelet, C Hardacre, C Rioche

CenTACat, School of Chemistry and Chemical Engineering, Queen's University of Belfast, Belfast, BT9 5AG, Northern Ireland

To appear in Applied Catalysis B: Environmental

#### G 67. Vanadium-metal(IV)phosphates as catalysts for the oxidative dehydrogenation of ethane

L. Lisi a, \*, G. Ruoppolo a, M.P. Casaletto b, P. Galli c,

M.A. Massucci c, P. Patrono d, F. Pinzari d

a Istituto Ricerche sulla Combustione, CNR, P.le Tecchio, 80 Napoli, Italy

b Istituto per lo Studio dei Materiali Nanostrutturati, CNR, Via U. La Malfa, 153 Palermo, Italy

c Dipartimento di Chimica, Universit'a degli Studi "La Sapienza", P.le A. Moro, 5 Roma, Italy

d Istituto di Metodologie Inorganiche e dei Plasmi, CNR, Monterotondo Scalo, Roma, Italy *Journal of Molecular Catalysis A: Chemical 232 (2005) 127–134* 

#### G 68. Evaluating the catalytic performances of SAPO-34 catalysts for the oxidative dehydrogenation of ethane

L. Lisi<sup>a</sup>, L. Marchese<sup>b\*</sup>, H.O. Pastore<sup>c</sup>, A. Frache<sup>b</sup>, G. Ruoppolo<sup>d</sup> and G. Russo<sup>a</sup>

<sup>a</sup> Istituto di Ricerche sulla Combustione, CNR, P. le Tecchio 80, 80125 Naples, Italy

<sup>b</sup> Dipartimento di Scienze e Tecnologie Avanzate, Università del Piemonte Orientale

"A. Avogadro", C. so Borsalino 54, I-15100 Alessandria, Italy

<sup>c</sup> Instituto de Química, Universidade Estadual de Campinas, CP 6154, CEP 13083-970, Campinas, SP, Brazil

 Dipartimento di Ingegneria Chimica, Università di Napoli "Federico II", P. le Tecchio 80, 80125 Naples, Italy

Topics in Catalysis Vol. 22, Nos. 1/2, January 2003 (# 2003)

## G 69. Effect of interparticle interaction on the low temperature oxidation of CO over size-selected Au nanocatalysts supported on ultrathin TiC films

Luis K. Ono and Beatriz Roldán-Cuenya\*

Department of Physics, University of Central Florida, Orlando, FL 32816, USA *Catalysis Letters* (\_ 2007) *DOI:* 10.1007/s10562-007-9027-7

#### G 70. Kinetic and spectroscopic study of methane combustion over $\alpha$ -Mn2O3 nanocrystal catalysts

Yi-Fan Han \*, Luwei Chen, Kanaparthi Ramesh, Effendi Widjaja, Srilakshmi Chilukoti, Ingrid Kesumawinata Surjami, Junsong Chen

Institute of Chemical and Engineering Sciences, 1, Pesek Road, Jurong Island, 627833 Singapore *Journal of Catalysis* 253 (2008) 261–268

## G 71. Properties and performance of Ba0.5Sr0.5Co0.8Fe0.2O3-\_+Sm0.2Ce0.8O1.9 composite cathode

Kang Wang <sup>a</sup>, Ran Rana, Wei Zhoua, Hongxia Gua, Zongping Shao <sup>a</sup>, \*, Jeongmin Ahnb <sup>a</sup> State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing University of Technology,

Xin Mofan Road, Nanjing, JiangSu 210009, PR China

<sup>b</sup> School of Mechanical and Materials Engineering, Washington State University,

Sloan 217, Pullman, WA 99164-2920, USA

Journal of Power Sources xxx (2008) xxx-xxx

#### G 72. Noncatalytic hydrothermolysis of ammonia borane

Moiz Diwan, Victor Diakov<sup>1</sup>, Evgeny Shafirovich, Arvind Varma School of Chemical Engineering, Purdue University, 480 Stadium Mall Drive, West Lafayette, IN 47907, USA

journal homepage: www.elsevier.com/locate/ijhydene

## G 73. Methane oxidation by NO and O2 from reverse spillover on alumina supported palladium catalysts

Rui Marques, Sandra Capela, Stéphanie Da Costa, Franck Delacroix, Gérald Djéga-Mariadassou, Patrick Da Costa

Catalysis Communications

## G 74. Oxygen selective membranes based on B-site cation-deficient (Ba<sub>0.5</sub>Sr<sub>0.5</sub>) (Co<sub>0.8</sub>Fe<sub>0.2</sub>)<sub>y</sub>O<sub>3-δ</sub> perovskite with improved operational stability

Lei Ge<sup>1</sup>, Ran Ran<sup>1</sup>, Kun Zhang<sup>1</sup>, Shaomin Liu<sup>2</sup>, Zongping Shao<sup>1\*</sup>

- <sup>1</sup> State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing University of Technology, No 5 Xin Mofan Road, Nanjing 210009, P R China
- <sup>2</sup> ARC Center for Functional Nanomaterials, School of Engineering, The University of Queensland, Brisbane, Queensland 4072, Australia

To appear in Journal of Membrane Science

## G 75. Evaluation of $Ba_{0.5}Sr_{0.5}$ $Co_{0.8}Fe_{0.2}$ $O_{3-\delta}$ as a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell

Ye Lin<sup>1</sup>, Ran Ran<sup>1</sup>, Yao Zheng<sup>1</sup>, Zongping Shao<sup>1\*</sup>, Wanqin Jin<sup>1</sup>, Nanping Xu<sup>1</sup>, Jeongmin Ahn<sup>2</sup>
State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing University of Technology, No 5 Xin Mofan Road, Nanjing, JiangSu, 210009, P R China

<sup>2</sup> School of Mechanical and Materials Engineering, Washington State University, Sloan 217, Pullman, WA 99164-2920, USA

To appear in Journal of Power Sources

#### G 76. A modified commercial DRIFTS cell for kinetically relevant operando studies of heterogeneous catalytic reactions

F C Meunier<sup>a,\*</sup>, A Goguet<sup>b,\*</sup>, S Shekhtman<sup>b</sup>, D Rooney<sup>b</sup>, H Daly<sup>b</sup>

- <sup>a</sup> Laboratoire de Catalyse et Spectrochimie, CNRS-ENSICAED, University of Caen, 14050 Caen, France
- <sup>b</sup> CenTACat, School of Chemistry, Queen's Unviersity of Belfast, Belfast, BT9 5AG, Northern Ireland

To appear in Applied Catalysis A: General

#### G 77. [V,Al]-MCM-22 catalyst in the oxidative dehydrogenation of propane

A Teixeira-Neto<sup>a,b,c</sup>, L Marchese<sup>b</sup>, G Landi<sup>c</sup>, L Lisi<sup>c</sup>, H O Pastore<sup>a</sup>

- <sup>a</sup> Grupo de Peneiras Moleculares Micro e Mesoporosas, Insittuto de Química, UNICAMP, CP 6154, CEP 13084-862, Campinas-SP, Brazil
- <sup>b</sup> Dipartimento di Scienze e Tecnologie Avanzate, Università del Piemonte Orientale "A Avogadro", Via Bellini 25G, 1-15100 Alessandria, Italy
- <sup>c</sup> Istituto Ricerche sulla Combustione, CNR, P.le Tecchio, 80 Napoli, Italy *Science Direct Catalysis Today* (2007), doi: 10.1016/j.cattod.2007.11.012

## G 78. Barium- and strontium-enriched $(Ba_{0.5}Sr_{0.5})_{1+x}$ $Co_{0.8}Fe_{0.2}O_{3-\delta}$ oxides as high-performance cathodes for intermediate-temperature solid-oxide fuel cells

Wei Zhou, Ran Ran, Zongping Shao\*, Wei Zhuang, Jing Jia, Hongxia Gu, Wanqin Jin, Nanping Xu State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing University of Technology, No 5 Xin Mofan Road, Nanjing, JiangSu, 210009, China Science Direct – Acta Materialia (2008), doi:10.1016/j.actamat.2008.02.002

## G 79. Hydrogen desorption studies of the $Mg_{24}Y_5$ -H system: Formation of Mg tubes, kinetics and cycling effects

Claudia Zlotea a,\*, Martin Sahlberg b, Sedat Özbilen A, Pietro Moretto A, Yvonne Andersson b

- <sup>a</sup> Institute for Energy, European Commission, Joint Research Center, PO Box 2, NL-1755 Petten, The Netherlands
- Department of Materials Chemistry, Ångström Laboratory, Uppsala University, Box 538, SE-751
   21 Uppsala, Sweden

Science Direct – Acta Materialia (2008), doi:10.1016/j.actamat.2008.01.029

#### G 80. Catalytic Oxidation of CO Gas over Nanocrystallite CuxMn1-xFe2O4

- K. S. Abdel Halim a), A. M. Ismail b), M. H. Khedr c), M. F. Abadir b)
- a) Central Metallurgical R&D Institute (CMRDI), P.O. Box 87, Helwan, Cairo, Egypt
- b) Chemical Engineering Department, Faculty of Engineering, Cairo University, Cairo, Egypt
- c) Materials Chemistry Department, Faculty of Science, Beni Suef, University, Beni Suef, Egypt Springer Top Catal (2008) 47:66–72, DOI 10.1007/s11244-007-9031-6

#### G 81. Enhanced hydrogen storage in Ni/Ce composite oxides

Léonard E. A. Berlouis,\*a, Clotilde Jubin,a, Brian G. McMillan,a, James Morrow,a, Mark D. Spicer,a, Leung P. Tang,a, Olivier Bordelanne,b, and Michael Weston,b.

- a WestCHEM, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, UK G1 1XL
- b ITI Energy, The Exchange No. 1, 62 Market Street, Aberdeen, UK AB11 5PJ *Phys. Chem. Chem. Phys.*, 2007, 9, 6032–6039

## G 82. Quantification of Brønsted Acid Sites in Microporous Catalysts by a Combined FTIR and NH3-TPD Study

- G. V. A. Martins, †, † G. Berlier, \*, † C. Bisio, § S. Coluccia, † H. O. Pastore, † and L. Marchese\*, §
- † Universita` di Torino.
- ‡ Universidade Estadual de Campinas.
- § Universita' del Piemonte Orientale.
- J. Phys. Chem. C 2008, 112, 7193-7200

#### G 83. Effect of Pt Impregnation on a Precipitated Iron-based Fischer-Tropsch Synthesis Catalyst

Weiqi Yu b), Baoshan Wu a), Jian Xu a), Zhichao Tao a), Hongwei Xiang a), Yongwang Li a)

- a) State Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Sciences, Taiyuan 030001, People's Republic of China
- b) Graduate University of Chinese Academy of Sciences, Beijing 100049, P. R. CHINA Springer Science+Business Media, LLC 2008 DOI 10.1007/s10562-008-9524-3

## G 84 High Performance of Fe–K Oxide Catalysts for Dehydrogenation of Ethylbenzene to Styrene with an aid of ppm-order Pd

Yasushi Sekine, Ryo Watanabe, Masahiko Matsukata, Eiichi Kikuchi

Department of Applied Chemistry, School of Science and Engineering, Waseda University, 3-4-1 Okubo, Shinjuku, Tokyo, Japan

Springer Science+Business Media, LLC 2008 DOI 10.1007/s10562-008-9580

## G 85 A new low temperature approach to developing mesoporosity in metal-doped carbons for adsorption and catalysis

- H. M. Williams a), E. A. Dawson a), P. A. Barnes a), G. M. B. Parkes a L. A. Pears b), C. J. Hindmarsh b).
- a) Department of Chemical and Biological Sciences, University of Huddersfield, Queensgate, Huddersfield HD1 3DH, UK
- b) Dstl, Porton Down, Salisbury, Wiltshire SP4 0JQ, UK Springer Science+Business Media, LLC 2008 DOI 10.1007/s10934-008-9233-8

## G 86 Preparation and Evaluation of Ammonia Decomposition Catalysts by High-Throughput Technique

Hongchao Liu a, b, Hua Wang a, Jianghan Shen a, b, Ying Sun a, b, and Zhongmin Liu at

a Laboratory of Applied Catalysis, Dalian Institute of Chemical Physics,

Chinese Academy of Sciences, Dalian 116023, Liaoning, China;

<sup>b</sup> Graduate School of the Chinese Academy of Sciences, Beijing 100049, China *React.Kinet.Catal.Lett. Vol. 93*, *No. 1*, 11–17 (2008) 10.1007/s11144-008-5155-3

## G 87 Single-Crystalline La0.6Sr0.4CoO3-d Nanowires/Nanorods Derived Hydrothermally Without the Use of a Template: Catalysts Highly Active for Toluene Complete Oxidation

Jiguang Deng a), Lei Zhang a), Hongxing Dai a), Hong He a), Chak Tong Au b)

- a) Laboratory of Catalysis Chemistry and Nanoscience, Department of Chemistry and Chemical Engineering, College of Environmental and Energy Engineering, Beijing University of Technology, Beijing 100022, P.R. China
- b) Department of Chemistry, Hong Kong Baptist University, Kowloon Tong, Hong Kong, P.R. China

Springer Science+Business Media, LLC 2008 DOI 10.1007/s10562-008-9422-8

## G 88 On the Synergy Effect in MoO3–Fe2(MoO4)3 Catalysts for Methanol Oxidation to Formaldehyde

Emma Söderhjelm a), Matthew P. House b), Neil Cruise a), Johan Holmberg c), Michael Bowker b), Jan-Olov Bovin d), Arne Andersson e).

- a) Perstorp Specialty Chemicals AB, Process and Catalyst Development, 284 80 Perstorp, Sweden
- b) School of Chemistry, Main Building, Cardiff University, Cardiff CF10 3AT, UK
- c) Perstorp Specialty Chemicals AB, Perstorp Formox, 284 80 Perstorp, Sweden
- d) Division of Polymer and Materials Chemistry, Department of Chemistry, Lund University, Chemical Center, P.O. Box 124, 221 00 Lund, Sweden
- e) Department of Chemical Engineering, Lund University, Chemical Center, P.O. Box 124, 221 00 Lund, Sweden

Springer Science+Business Media, LLC 2008 DOI 10.1007/s11244-008-9112-1

## G 89- Promotion Effects and Mechanism of Alkali Metals and Alkaline Earth Metals on cobalt#Cerium Composite Oxide Catalysts for N2O Decomposition

Li Xue, Hong He, Chang Liu, Changbin Zhang, and Bo Zhang

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 18 Shuangqing Road, Beijing 100085, PR China

Environ. Sci. Technol., **2009**, 43 (3), 890-895 • DOI: 10.1021/es801867y • Publication Date (Web): 05 January 2009

## $\frac{G\ 89}{part\ 2}$ Supporting Information: Promotion effects and mechanism of alkali metals and alkaline earth

#### metals on cobalt-cerium composite oxide catalysts for N2O decomposition

Li Xue, Hong He, Chang Liu, Changbin Zhang, and Bo Zhang

Research Center for Eco-Environmental Sciences, ChineseAcademy of Sciences, 18 Shuangqing Road, Beijing 100085, PR China

Environ. Sci. Technol., **2009**, 43 (3), 890-895 • DOI: 10.1021/es801867y • Publication Date (Web): 05 January 2009

## G 90 Investigation of Pt catalytic effects on carbon support corrosion of the cathode catalyst in PEM fuel cells using DEMS spectra

Wei Li, Alan M. Lane

Department of Chemical and Biological Engineering, The University of Alabama, Box 870203, Tuscaloosa, AL 35487-0203, US

(2009), doi:10.1016/j.elecom.2009.04.001