Publications – D. B. Hibbert

Books and Chapters in Books


Publications in refereed journals


57 Hibbert D.B., Generation and display of chemical structures by a genetic algorithm, Chemometrics and Intelligent Laboratory, 20, 35-43 (1993).


129 Chen Z, Pourabedi P and Hibbert DB, *Stripping voltammetry of Pb(II), Cu(II) and Hg(II) at a Nafion-coated glassy carbon electrode modified by neutral ionophores*, Electroanalysis, 11, 964-968, 1999.


134 Chen, Guo Nan; Zhang, Lin; Lin, Rong Er; Yang, Zhen Cong; Duan, Jian Ping; Chen, Hong Qing; Hibbert, D. Brynn. *The electrogenerated chemiluminescent behavior of hemin and its catalytic activity for the electrogenerated chemiluminescence of lucigenin*. Talanta (2000), 50(6), 1275-1281.


146 Hibbert D B Compliance of analytical results with regulatory or specification limits: a probabilistic approach Accreditation and Quality Control, (2001) 6, 346-351.


157 R. Wells, T. Saed Al-Deen, J. Hook, D. B. Hibbert, Quantitative Nuclear Magnetic Resonance (QNMR) Spectroscopy for Assessing the Purity of Technical Grade Agrichemicals: 2,4-Dichlorophenoxyacetic acid (2,4-D) and sodium 2,2-Dichloropropionate (Dalapon sodium), J Agric Food Chem, 50 (12):3366-3374 (2002).

158 Yang, WR; Ozsoz, M; Hibbert, DB; Gooding, JJ, Evidence for the direct interaction between methylene blue and guanine bases using DNA-Modified carbon paste electrodes, Electroanalysis, 14 (18): 1299-1302 (2002)


161 Zhao, Min; Hibbert, D. Brynn; Gooding, J. Justin. An oxygen-rich fill-and-flow channel biosensor. Biosensors & Bioelectronics (2003), 18(5-6), 827-833.

162 Zhao, Min; Hibbert, D. Brynn; Gooding, J. Justin. Solution to the problem of interferences in electrochemical sensors using the fill-and-flow channel biosensor; Analytical Chemistry (2003), 75(3), 593-600.


170 Li, Jianfeng; Fuller, Steven; Cattle, Julie; Way, Christopher Pang; Hibbert, D. Brynn, Matching fluorescence spectra of oil spills


186. Guozhen Liu, Quynh Thu Nguyen, Edith Chow, Till Böcking, D. Brynn Hibbert, J. Justin Gooding, Study of Factors Affecting the Performance of Voltammetric Copper Sensors Based on Gly-Gly-His Modified Glassy Carbon and Gold Electrodes, Electroanalysis,
187. Bender, Florian; Mankelow, Rowena; Hibbert, D Brynn and Gooding, J Justin, 
"Lyotropic Liquid Crystal Templating of Groups 11 and 12 Metal Films,
DOI: 10.1002/elan.200603585


http://dx.doi.org/10.1016/j.chroma.2007.03.021


13


**Patents**


5 Hibbert DB, Barnett D, Doran D, *Odour sensor*, European patent application 01957639-2204-AU01003 14th August 2001


**Non-refereed articles**


2. Hibbert D.B., *Chemometrics and Intelligent Laboratory Systems - the first ten years*, Chemometrics and Intelligent Laboratory Systems, **31**, (1996) R5 - R7


### Papers presented at conferences


38. Mousa, M.S. and Hibbert, D.B., Analysis of some properties of metal-glass microemitters subjected to strong electric fields, 39th International Field Emission Symposium, Halifax, Canada, 1992.;


40. Hibbert, D.B., Genetic Algorithm for the display of molecules and the genesis of molecular structure, 5th International Conference on Genetic Algorithms, University of Illinois, Urbana-Champaign, USA, July 1993, p321


50 Weigang Huang, D. Brynn Hibbert and Alan Bond, Theory of Pulse Polarography of Irreversible Processes, 9th Australian Electrochemical Conference, Woollongong, P76, Feb 1994

51 Weigang Huang, D. Brynn Hibbert and Alan Bond, Evaluation of resolution of polarographic peaks 9th Australian Electrochemical Conference, Woollongong, P75, Feb 1994


78. Ziad Ramadan, Mary Mulholland, Brynn Hibbert, Philip Preston, Paul Compton, Paul Haddad, *Towards an Expert System in Ion Exclusion Chromatography using Multiple"
classification Ripple Down Rules (MCRDR)
IICS'97, International Ion Chromatography Symposium, San Francisco, September 14-17, 1997


90. Hibbert D. Brynn, Data analysis of Array Sensors, ARC Special Initiatives Program. Workshop on Electrochemically Based Microsensing Arrays, University of


105 D. Doran, D. B. Hibbert, N. Kumar and D. Barnett, *Deriving A Kinetic Model For The Reaction Of Amines and Aldehydes From*
Fluorescence Spectrophotometry 6th
International Conference on Methods and Applications of Fluorescence Spectroscopy,


108 Wenrong Yang, JJ Gooding, DB Hibbert, Characterisation of L-Cysteine monolayers for copper sensors on a gold electrode, 11th Australasian Electrochemical Conference, Parramatta, NSW, December 2000, p85.


110 Wenrong Yang, JJ Gooding, and DB Hibbert, Electrochemical characterisation of poly-L-aspartate monolayers on gold electrodes as metal ion chemosensors, 11th Australasian Electrochemical Conference, Parramatta, NSW, December 2000, poster 25.


116 JJ Gooding, M Zhou, D Losic, JG Shapter and D B Hibbert, An interference free fill-and-flow channel biosensor, 7th World Congress on Biosensors, Kyoto, 15 – 17 May, 2002, Abstract P1-1.03

117 WenRong Yang, JJ Gooding, D B Hibbert, R Zhang, K Fisher and G Willett, Oligopeptides as Selective Ligands in the Fabrication of Multianalyte Electrochemical Sensor Arrays, 7th World Congress on Biosensors, Kyoto, 15 – 17 May, 2002, Abstract C2.06

118 WenRong Yang, JJ Gooding, D B Hibbert, R Zhang, K Fisher and G Willett, Oligopeptides as Selective Ligands in the Fabrication of Multianalyte Electrochemical Sensor Arrays, 9th International meeting on Chemical Sensors, Boston, July 7 – 10, 2002


121. Yang W, Gooding JJ, Hibbert DB, Zhang R, Chow E and Willett DG, Oligopeptides as


130 L Besley, R Brittain, J Farrar, Y Heng, D B Hibbert, L Mackay, B Yeomans, Legal Traceability of Breath Alcohol Measurements, APLMF Symposium on Traceability in Legal Metrology, Kyoto, October 2003


135 Gooding JI, Liu J, Wong ELS, Wibowo R, Losic D, Chou A, Shapter J, Paddon-Row MN, Hibbert DB, Using carbon nanotubes, DNA and other molecular wires to transfer electrons over long distances: applications to sensing and
bioelectronics, ISE Xiamen, China, March 7 – 10, 2004.


150. D. B. Hibbert, *Metrological traceability of chemical measurement results*, IUPAC-SSED Workshop on ‘Metrological traceability


158. D Brynn Hibbert, Multi-sensor electronic noses: making and calibrating useful sensors
Seminars on Advanced Nanotechnology, Chiang Mai, Thailand, February 2009


161. D Brynn Hibbert, What’s the point of measurement? 1st Australia/OCEANIAFOODS Training Course on Production, Compilation and Use of Food Composition Data, 9-20 Feb 2009

162. D Brynn Hibbert, Consulting for NSG, to UNSW Global, March 2009

163. Graham Bell and Brynn Hibbert, Development of e-noses for real-time recognition of complex odours regarded as nuisances by local communities, EcoForum 2009, Sydney, April 2009

164. Graham Bell and Brynn Hibbert, How can statistics help the environment?, EcoForum 2009, Sydney, April 2009

165. D Brynn Hibbert, Metrology in Chemistry Asia – Pacific Conference on Chemistry Education & 24th Philippine Chemistry Congress, Bohol, April 2009 (1st Plenary speaker)


168. D Brynn Hibbert, Scientist versus the Law, Royal Society of New South Wales, Sydney May, 2009

169. D Brynn Hibbert, Crooks, Cranks and Charlatans, Royal Society of New South Wales, Southern Highlands Branch, Mittagong, June, 2009

170. D Brynn Hibbert, Fluorescence methods for detecting aldehydes in food spoilage, SEANAC Swaziland Conference, Ezulwini, July 2009
171. D Brynn Hibbert, Experimental design in chemistry – work smarter!, Department of Chemistry, University of Kwa-Zulu Natal, Durban, South Africa, November 2009

172. D Brynn Hibbert, IUPAC – Uncertainties of Atomic Weights, JCGM-WG1, Cape Town, South Africa, November 2009


174 Elizabeth Murago, Rose Amal, Justin Gooding and D Brynn Hibbert. Conducting gold coated magnetic nanoparticles for environmental and biological applications, Advances in Functional Nanomaterials, the 7th Annual Conference of the ARC Centre of Excellence for Functional Nanomaterials, 25-26 November 2010, Gold Coast, Queensland Australia. Poster Presentation

175 Elizabeth Murago, D. Brynn Hibbert, J. Justin Gooding, Rose Amal, Leo Lai, Kyloon Chuah and Ian Goon. Towards monodisperse gold coated iron-oxide magnetic nanoparticles for environmental and biological applications, 18th Research and Development Topics Conference in Analytical and Environmental Chemistry, 5-8 December 2010, University of Tasmania, Hobart, Tasmania Australia. Poster Presentation


179 Elizabeth Murago, Rose Amal, D. Brynn Hibbert, J. Justin Gooding. Towards a multiple analyte sensor by use of dispersible modified Au@Fe3O4 nanoelectrodes, 19th Research and Development Topics Conference in Analytical and Environmental Chemistry, 7-9 December 2011, La Trobe University, Bundoora, Victoria Australia. Poster Presentation

180 Weremfo, A., Carter, P., Zhao, C. and Hibbert, D.B. Effectiveness of Electrochemically Roughened Platinum Microelectrodes in Neural prostheses, 19th Royal Australian Chemical Institute research and development topics 2011, Latrobe University, Melbourne – Australia, December 2011


183 Weremfo, A., Carter, P., Zhao, P. and Hibbert, D.B. Characterization and optimization of electrochemically roughened platinum microelectrode for neural stimulation, 20th Royal Australian Chemical Institute research and development topics 2012, Deakin University, Geelong – Australia, December 2012

184 Elizabeth Murago, Rose Amal, D. Brynn Hibbert, J. Justin Gooding. Towards a multiple analyte sensor by use of dispersible modified Au@Fe3O4 nanoelectrodes, 18th Australian Electrochemistry Symposium, Electrochemistry division- Royal Australian
Chemical Institute, 15th April 2012, Curtin University, and Bentley, Western Australia. Poster Presentation

185 Elizabeth Murago, Rose Amal, D. Brynn Hibbert, J. Justin Gooding. Towards a multiple analyte sensor by use of dispersible modified Au@Fe3O4 nanoelectrodes, 10th Spring meeting of the International Society of Electrochemistry, 15th -18th April 2012, Perth, Australia. Poster Presentation


187 Elizabeth Murago, Rose Amal, J. Justin Gooding and D. Brynn Hibbert. Au@Fe3O4 nano-electrodes: Their electroanalytical performance as dispersible electrodes and their use as sensors, Advances in Functional Nanomaterials, The 8th Annual Conference of the ARC Centre of Excellence for Functional Nanomaterials, 15th -16th November 2012, University of New South Wales, Sydney, Australia. Poster Presentation

188 Elizabeth Murago, Rose Amal, J. Justin Gooding and D. Brynn Hibbert. Au@Fe3O4 nano-electrodes: Their electroanalytical performance as dispersible electrodes and their use as sensors, Advances in Functional Nanomaterials, 20th Research and Development Topics Conference in Analytical and Environmental Chemistry, 11th -14th December 2012, Deakin University, Geelong, Victoria, Australia. Oral Presentation

189 Elizabeth Murago, Rose Amal, J. Justin Gooding and D. Brynn Hibbert. Au@Fe3O4 nano-electrodes: Their electroanalytical performance as dispersible electrodes and their use as sensors, 12th Topical Meeting of the International Society of Electrochemistry, 17th -21st March 2013, Bochum, Germany. Oral Presentation


196 D. B. Hibbert, Our results are traceable – but to what?? Metrological traceability and the New SI. RACI Seminar Are You Up to Standard?, NSW Analytical and Environmental Chemistry Group, NMI Lane Cove, 5 May 2016.
197 D. B. Hibbert. *Is your data up to standard? Traceability and uncertainty of measurement results, 9th Oceania Food Conference, 2016, 9 July 2016, UNSW Sydney, Australia.*