1. Dados pessoais

Nome completo

César Augusto Correia de Sequeira

Nome sob o qual publica

C.A.C. Sequeira

Número de identificação fiscal (NIF)

137629133

Documento de identificação (BI, passaporte...)

875043

Data de nascimento

09-04-1943

País de nacionalidade

Portugal

Sexo

M

Morada institucional

Instituto Superior Técnico

Av. Rovisco Pais, 1

1049-001 Lisboa

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1500-081 Lisboa

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Telefone instituição

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Fax

Telemóvel

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2. Formação académica

Ano: 1968

Grau: LICENCIATURA

Classificação: nd

Instituição que conferiu o grau: Universidade Técnica de Lisboa

Faculdade: Instituto Superior Técnico

Título da tese:

Orientador:

Co-orientador:

Domínio científico: Engenharia Química

Anos curriculares: 0

Designação do curso:

Ano: 1974

Grau: DOUTORAMENTO

Classificação: nd

Instituição que conferiu o grau: Imperial College of Science & Technology, London, UK

Faculdade: n/a

Título da tese: "Corrosion Studies in Na2SO4-NaCl Melts"

Orientador:

Co-orientador:

Domínio científico: Engenharia Química

Designação do curso:

3. Actividades anteriores e situação actual

Período

Cargo, categoria ou actividade

Instituição

a Vice-President of the Scientific Committee of IST IST, Lisbon

a Associate Professor in “General Chemistry” IST, Lisbon

a Associate Professor in Electrochemistry and Corrosion IST, Lisbon

a Assistant Professor in Electrochemistry, Applied Electrochemistry and Corrosion IST, Lisbon

a Lecturer in Electrochemistry, Electrometallurgy and Electrothermy, Laboratory of Electrochemistry IST, Lisbon

4. Área de actividade científica

Basic and applied aspects on the teaching of Modern Electrochemistry, Corrosion and Protection of Materials, and Electrochemical Energy Conversion.

5. Domínio de especialização

Domínio de especialização

Sciences and Engineering, with an emphasis on problems of materials electrodegradation and clean energy devices.

Actuais interesses de investigação

Synthesis of metal hydrides and their application to room-temperature fuel cells. Development of high energy density power sources. Nanoelectrochemistry. Direct borohydride fuel cells. Hydrogen evolution reaction. Bipolar electrochemistry.

Outras competências/actividades

He is a member of the editorial boards of “Molten Salt Forum”, “Environmental Research Forum”, “Corrosion and Protection of Materials”, and “Moscow International Energy Club’s Newsletter”. He is the Editor-in-Chief of “Science and Technology of Materials” (official Journal of the Portuguese Materials Society). He was a member of the editorial board of “Journal of Power Sources”(1989-1998).

He is serving as Research & Development Advisor for the European Office of Materials Research & Development Co. (U.S.A.).

He has acted as a consultant for several medium-sized companies.

From 2000 onwards he has authored over 150 short articles for the Verbo Enciclopédia Luso Brasileira de Cultura (Século XXI).

He is cited in International Who’s Who of Intellectuals, vol.6, IBC Cambridge, 1985.

6. Experiência na orientação

LECTURERS/RESEARCH SCIENTISTS ASSOCIATED WITH PROFESSOR C.A.C.SEQUEIRA

Maria Augusta Guerreiro Martins

1977-1983, Licenciate in Chemical Engineering IST, Technical University of Lisbon, Lecturer at Instituto Superior Técnico.

Maria Odete da Silva Pinto Caldeira

1991-1993, Licenciate in Chemistry, Faculty of Sciences,

University of Porto, Research Scientist of ITEC.

Ana Cristina Pereira Rosa Pascoalinho Carrasco

1991-1993, Licenciate in Physics, Faculty of Sciences,

University of Lisbon, Research Scientist of ITEC.

Isabel Maria Gonçalves da Conceição Sequeira de Paiva

1991-1993, Licenciate in Chemical Engineering, IST, Technical University of Lisbon, Research Scientist of ITEC.

Luiz Filipe Frechaut Trepa Torres Gonçalves Rodrigues

1991-1993, Diplom in Chemistry, Technical University of Leuna-Merseburg, Germany

1996- ,

Research Scientist of ITEC. Ph.D. Student, IST

Master Thesis Title: Analysis of boron compounds present in the electrosynthesis of sodium tetrahydridoborate

Student: Diogo M.F. Santos

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), July 2006.

Ph.D. Thesis Title: Célula de Alumínio-Ar

Student: Paulo Sérgio Duque de Brito

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), Março 1998.

Ph.D. Thesis Title: Hydrogen Storage Alloys as Anode Electrodes for Fuel Cells

Student: Yun Chen

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), December 2005.

Ph.D. Thesis Title: Studies on Sodium Borohydride for Energy Systems

Student: Diogo Santos

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), December 2009.

Ph.D. Thesis Title: Electroquímica de filmes finos de azul-da-prússia

Student: Luiz Filipe Frechaut Trepa Torres Gonçalves Rodrigues

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), February 2012.

Ph.D. Thesis Title: Electrólitos poliméricos para sistemas electroquímicos de energia

Student: Maria João Carrilho Plancha

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), 2008.

Ph.D. Thesis Title: Células de Combustível de Electrólito Polimérico

Student: Rui Pedro da Costa Neto

Supervisor: C.A.C. Sequeira

Approved: Instituto Superior Técnico, Technical University of Lisbon (TULisbon), Fevereiro de 2007.

Apart from supervising short studies of over 50 graduate students, he was supervisor and co-supervisor of over 10 Ph.D. students and 10 M.Sc. students. Also supervised the following post-doc researchers:

Diogo M.F. Santos (2013-2015)

Biljana Sljukic (2012-present)

Luís Amaral (2014-present)

7. Participação em projectos

Participação em projectos de investigação (coordenador/membro de equipas)

He has collaborated in several national and UE projects, namely as Portuguese director of Brite-Euram, Joule, HCM, Erasmus and Tempus activities.

Funding, source, dates

POCTI/FIS/43627/2000

Laser Controlled Collisional Processes

1/1/2002 – 31/7/2006

€ 135.000

POCTI/CTA/46315/2002

Recycling of Spent Domestic-Type Batteries

1/3/2005 – 28/2/2008

€ 50.760

PTDC/FIS/67018/2006

Ionization of Laser Selected Vibrationally Excited Fullerenes

20/08/2007 – 20/08/2010

€ 198.000 (current funding)

PTDC/CTM/66700/2006

Hydrogen Storage in Nanostructured Materials

01/09/2007 – 01/09/2010

€ 187.198 (FCT requested funding)

PTDC/SEN-ENR/121265/2010

Functional materials for electrolytic hydrogen production

90000 € (FCT approved funding).

Started 01/01/2012

“Transition metal oxide-based electrode materials for lithium-ion batteries”

Scientific and Technological Cooperation FCT/Serbia, FCT Proc.º 441.00 Serbia

01-01-2013 to 31-12-2014

(Principal Investigator: Biljana Sljukic)

8. Prémios e Distinções

Ano

Prémio ou distinção

Entidade promotora

9. Publications

Teses

Corrosion Studies in Na2SO4-NaCl Melts.

C.A.C. Sequeira

Ph.D. Thesis, University of London, 361pp., 1974.

Livros (autor)

Multifunctional Mesoporous Inorganic Solids.

C.A.C. Sequeira and M.J. Hudson

NATO ASI Series C: Mathematical and Physical Science, no. 400,

Kluwer Academic Publishers, Dordrecht, 1993.

Electrochemical Technology of Molten Salts.

C.A.C. Sequeira and G.S. Picard

Trans Tech Publications, Aedermannsdorf, 1993.

Environmental Oriented Electrochemistry.

C.A.C. Sequeira

Elsevier Science B.V., Amsterdam, The Netherlands, 1994.

Livros (editor)

Solid State Batteries.

C.A.C. Sequeira and A. Hooper (eds.)

NATO ASI Series E: Applied Sciences, no.101, Martinus Nijhoff Publishers, Dordrecht, 1985.

Proceedings of the First Workshop on Electrochemical Science and Engineering.

C.A.C. Sequeira (ed.),Volume of 332pp., Technical Section of Electrochemistry of Materials, Portuguese Society of Materials, Instituto Superior Técnico, Lisbon, 1985.

Proceedings of the Workshop on Materials and Corrosivity of Industrial Soft Waters.

C.A.C. Sequeira (ed.), Volume of 42pp., Technical Section of Electrochemistry of Materials, Portuguese Society of Materials, Instituto Superior Técnico, Lisbon, 1987.

Microbial Corrosion - 1

C.A.C. Sequeira and A.K. Tiller (eds.)

Elsevier Applied Science, London, 1988.

Chemistry and Energy -1.

C.A.C. Sequeira (ed.), Materials Science Monographs, 65, Elsevier Science Publishers B.V., Amsterdam, 1991.

Microbial Corrosion

C.A.C. Sequeira and A.K. Tiller (eds.)

European Federation of Corrosion Publications, Number 8,

The Institute of Materials, London, 1992.

Microbial Corrosion

A.K. Tiller and C.A.C. Sequeira (eds.)

European Federation of Corrosion Publications, Number 15,

The Institute of Materials, London, 1995.

Chemistry and Energy

C.A.C. Sequeira (ed.)

Transtec Publications Ltd, Zuerich-Uetikon, Switzerland, 1996.

Chemistry, Energy and the Environment

C.A.C. Sequeira and J.B. Moffat (eds.)

The Royal Society of Chemistry, Cambridge, UK,

Special Publication No.217, 1998.

Microbial Corrosion

C.A.C. Sequeira (ed.)

European Federation of Corrosion Publications Number 29,

The Institute of Materials London, 2000.

High Temperature Corrosion in Molten Salts

C.A.C. Sequeira (ed.)

Trans Tech Publications, Uetikon-Zuerich, 2003.

Polymer electrolytes: fundamentals and applications,

C.A.C. Sequeira and D.M.F. Santos (eds),

Woodhead Publishing Ltd, Cambridge, UK, ISBN: 978-1-84569-772-3 (2010).

Capítulos de livros

Chemical Sensors Involving Polymer Films.

C.A.C. Sequeira, Electrochemical Science and Technology of Polymers-2, ed. R.G. Linford, Elsevier Applied Science, London, pp.319-374 (1990).

Electrochemical Generators and the Environment. Fuel Cells and Metal/Air Batteries.

P.S.D. Brito and C.A.C. Sequeira, Environmental Oriented Electrochemistry, ed. C.A.C. Sequeira, Elsevier Science B.V., Amsterdam, pp.203-221 (1994).

The Prospective Role of Magnesium in the Development of Environment-Friendly Solid-State Batteries.

L.P.S. Araújo, A.M.G. Pacheco and C.A.C. Sequeira,

Environmental Oriented Electrochemistry, ed. C.A.C. Sequeira, Elsevier Science B.V., Amsterdam, pp.223-230 (1994).

AC Impedance Spectroscopy Measurement in Microbial Corrosion.

C.A.C. Sequeira, Recent Advances in Biodeterioration and Biodegradation, eds. K.L. Garg, N.Garg and K.G. Mukerji Naya Prokash, Calcutta, vol. II, pp.117-131 (1994).

AC Impedance Spectroscopy in Microbial Corrosion.

C.A.C. Sequeira, Bioextraction and Biodeterioration of Metals, eds. C.C. Gaylarde and H. A. Videla Cambridge University Press, pp. 307-326 (1995).

Electrochemical Approach to Pollutants Removal and Destruction.

C.A.C. Sequeira

NATO ASI Series 2: Environment, vol. 43, Mineral Processing

and the Environment, eds. G.P. Gallios and K.A. Matis,

Kluwer Academic Publishers, Dordrecht, pp. 111-128, 1998.

Electrohydrometallurgical Recovery of Cadmium and Nickel from Spent Batteries.

C.A.C. Sequeira

NATO ASI Series 2: Environment, vol.43, Mineral Processing

and the Environment, eds. G.P. Gallios and K.A. Matis,

Kluwer Academic Publishers, Dordrecht, pp.129-142, 1998.

Corrosion of copper and copper alloys.

C.A.C. Sequeira

Uhlig's Corrosion Handbook, 2nd edition, ed. R. Winston Rev., John Wiley & Sons, Inc., New York, pp.729-765 (2000).

Austenitic Stainless Steels for Desalination Processes

C.A.C. Sequeira, Marine Corrosion of Stainless Steels, EFC Publication No. 33,Ed. D. Féron, IOM Communications, London, pp.96-114, 2001.

Electrochemical energy conversion technologies and their environmental impact

C.A.C. Sequeira and D.M.F. Santos

Energy Conversion: New Research, Wenzhong Lín (ed.), Nova Science Publishers, Inc., New York, ISBN: 978-1-60456-263-7, pp. 31-87 (2008).

Polymer Electrolytes: Fundamentals and Applications

C.A.C. Sequeira and D.M.F. Santos

Woodhead Publishing Ltd, Cambridge, UK, ISBN: 978-1-84569-772-3 (2010).

Electrodeposition of Zn-Mn alloys from recycling battery leach solutions in the presence of amines

P.S D. Brito, S. Patrício, L.F. Rodrigues, D.M.F. Santos, and C.A.C. Sequeira

The Sustainable World” – WIT Transactions on Ecology and the Environment, Vol. 142, C.A. Brebbia (ed.), WIT Press, Wessex Institute of Technology, UK, ISBN: 978-1-84564-504-5, pp. 367-378 (2010).

Introduction to polymer electrolyte materials

C.A.C. Sequeira and D.M.F. Santos

“Polymer electrolytes: fundamentals and applications”, C.A.C. Sequeira and D.M.F. Santos (eds.), Woodhead Publishing Ltd, Cambridge, UK, ISBN: 978-1-84569-772-3, pp. 3-61 (2010).

High-temperature oxidation,in Uhlig`s Corrosion Handbook

C.A.C.Sequeira

Uhlig`s Corrosion Handbook, R. Winston Revie, (ed.), John Wiley and Sons,Ltd., New York,USA, pp.247-280 (2011).

Copper and copper alloys

C.A.C.Sequeira

Uhlig`s Orrosion Handbook, R.Winston Revie,(ed.), John Wiley and Sons,Ltd.,New York, USA, pp.757-785(2011).

High-temperature oxidation—Testing and evaluation

C.A.C.Sequeira

Testing and evaluation, in Uhlig`s Corrosion Handbook, R. Winston Revie, (ed.), John Wiley and Sons, Ltd.,pp.1053-1058 (2011) .

Diffusion coatings for the oil industry

C.A.C.Sequeira

Corrosion and Materials in the Oil and Gas Industries,P. Javaherdashti,C. Nwacha, H. Tan,(eds.),CRC Press, USA, pp.214-272 (2013).

Electrodeposition of Ti from K2TiF6

C.A.C.Sequeira

Molten Salts Chemistry and Technology, M. Gaune-Escard and G.H. Haalberg, (eds.),John Wiley and Sons,Ltd.,London,UK,pp.287-294(2014).

Developments in secondary batteries

César A.C. Sequeira, Biljana Šljukic, Milica Vujkovic, Ivana Stojkovic Simatovic, Luis Amaral, Diogo M.F. Santos,

FUEL CELLS AND BATTERIES of the Series ENERGY, SCIENCE & TECHNOLOGY (12 VOLS.), in Vol. 10 , Ed. J.N. Govil, Studium Press LLC, USA, 2015.

ISBN 1-62699-071-9, pp. 271-313. (2015)

“Introductory Industrial Electrochemistry”, in “Environmental Remediation and Energy Production Technologies”,

C.A.C. Sequeira,

Coleção C3i, nº 5, Coordenação Interdisciplinar para a Investigação e Inovação, Instituto Politécnico de Portalegre, Portugal,

ISBN 978-989-8806-05-5, pp. 57-86 (2015).

“Electrochemistry and Environmental Protection”, in “Environmental Remediation and Energy Production Technologies”,

C.A.C. Sequeira and L.F.F.T.T.G. Rodrigues

Coleção C3i, nº 5, Coordenação Interdisciplinar para a Investigação e Inovação, Instituto Politécnico de Portalegre, Portugal, ISBN 978-989-8806-05-5, pp. 87-110 (2015).

C.A.C. Sequeira and D.M.F. Santos, "Electrochemical Energy Conversion Technologies and their Environmental Impact" in "Energy Conversion: New Research", Wenzhong Lín (Editor), Nova Science Publishers, Inc., New York, p. 31-87 (2008).

"Materials for the future"

C.A.C. Sequeira

Annualia 2008-2009, pp. 95-128, Editorial Verbo, Lisboa

C.A.C. Sequeira and D.M.F. Santos, “Introduction to polymer electrolyte materials” in: “Polymer electrolytes: fundamentals and applications”, C.A.C. Sequeira and D.M.F. Santos (eds.), Woodhead Publishing Ltd, Cambridge, UK, ISBN: 978-1-84569-772-3 (2010).

Copper and Copper Alloys, C. A. C. Sequeira in: Uhlig's Corrosion Handbook, R. Winston Revie (Editor), Third Edition, John Wiley & Sons, Inc, 2011.

High-Temperature Oxidation, C. A. C. Sequeira in: Uhlig's Corrosion Handbook, R. Winston Revie (Editor), Third Edition, John Wiley & Sons, Inc, 2011.

High-Temperature Oxidation—Testing and Evaluation, C. A. C. Sequeira in: Uhlig's Corrosion Handbook, R. Winston Revie (Editor), Third Edition, John Wiley & Sons, Inc, 2011.

“Diffusion Coatings for the Oil Industry”, C. A. C. Sequeira in: Corrosion and Materials in the Oil and Gas Industries”, Reza Javaherdashti, Chikezie Nwaoha, Henry Tan (Editors), CRC Press, 2013.

Artigos em revistas de circulação internacional com arbitragem científica

Potentiometric Measurements on Oxygen Electrodes in Molten Sodium Sulphate.

C.A.C. Sequeira and M.G. Hocking,

Electrochim. Acta 22, 1161-1165 (1977).

E-pO2- Diagram for Nickel Corrosion in Na2SO4 at 1173K.

C.A.C. Sequeira and M.G. Hocking

Br. Corros. J. 12(3), 158-162 (1977).

Corrosion of Nickel in Sodium Sulphate-Sodium Chloride Melts. Part I.

C.A.C. Sequeira and M.G. Hocking

J. Appl. Electrochem. 8, 145-160 (1978).

Corrosion of Nickel in Sodium Sulphate-Sodium Chloride

Melts. Part II. Potential-Time and Topochemical Studies.

C.A.C. Sequeira and M.G. Hocking

J. Appl. Electrochem. 8, 179-193 (1978).

Polarization Measurements on Solid Platinum-Molten Sodium Sulphate-Sodium Chloride Interfaces.

C.A.C. Sequeira and M.G. Hocking

Electrochim. Acta 23, 381-388 (1978).

Electrochemistry of Iron in Sodium Sulphate at 1173K.

I.Thermodynamic Diagrams.

C.A.C. Sequeira

Br. Corros. J. 16(2), 94-101 (1981).

Hot Corrosion of Nimonic 105 in Sodium Sulphate-Sodium Chloride Melts.

C.A.C. Sequeira and M.G. Hocking

Corrosion-NACE 37, 392-407 (1981).

Study of a Lithium-Lithium Propionate Electrode in Propylene Carbonate.

J.M.S. Saltão and C.A.C. Sequeira

J. Power Sources 10, 111-123 (1983).

The Study of Lithium Electrode Reversibility against (PEO)xLiF3CSO3 Polymeric Electrolytes.

C.A.C. Sequeira and A. Hooper

Solid State Ionics 9 & 10, 1131-1138 (1983).

Stability Domain of a Complexed Lithium Salt-Poly(Ethylene Oxide) Polymer Electrolyte.

C.A.C. Sequeira, J.M. North and A. Hooper.

Solid State Ionics 13, 175-179 (1984).

Thin Film Solid State Polymer Electrolytes Containing Silver, Copper and Zinc Ions as Charge Carriers.

T.M.A. Abrantes, L.J. Alcacer and C.A.C. Sequeira

Solid State Ionics 18 & 19, 315-320 (1986).

Formation Mechanisms and Structural Features of Anodic Aluminium Oxide Films.

C.A.C. Sequeira, C.M.V.M. Ribeiro, M.F. Santos and R.S.A.P. Leal., Surfacing Journal International 1(2), 55-64 (1986).

A Li/Nb2O5 Cell Employing (PEO)9LiCF3O3 as Electrolyte.

C.A.C. Sequeira and F.D.S. Marques

CHEMTRONICS 1, 137-138 (1986).

Coulostatic Studies at a Dropping Mercury Electrode in Fused Nitrate Salts.

C.A.C. Sequeira

Bulletin of Electrochemistry 3(1), 71-73 (1987).

Chronopotentiometric Study of Titanium in Molten NaCl+KCl+K2TiF6.

C.A.C. Sequeira

J. Electroanal. Chem. 239, 203-208 (1988).

Formation of Diffusion Coatings on Iron and Steel.

Part III. Aluminium, Chromium and Zinc Coatings.

C.A.C. Sequeira, A.M.G. Pacheco and C.M.G.S. Nunes

Surface Engineering 4(1), 65-81 (1988).

Conduction Processes in Oxide Solid Electrolytes.

C.A.C. Sequeira and J.M.B. Fernandes Diniz

Phys. Stat. Sol. (a) 105, 123-130 (1988).

Transport Equations in Common Solid State Electrochemical

Situations.

C.A.C. Sequeira and J.M.B. Fernandes Diniz

Phys. Stat. Sol. (a) 108, 155-162 (1988).

Some Physical Properties of the TiO2 Semiconductor Electrode.

C.A.C. Sequeira, J.P. Joseph and J.M.B. Fernandes Diniz

Solid State Ionics 26, 197-201 (1988).

Chloride Induced Pitting Initiation on 304L Stainless Steel in Acidic Sodium Sulphate Solutions.

M.S. de Sá, C.M. Rangel and C.A.C. Sequeira

Br. Corros. J. 23, 186-189 (1988).

Lithium Insertion in Niobium Pentoxide.

C.A.C. Sequeira and F.D.S. Marques

CHEMTRONICS 3, 236-239 (1988).

Chronopotentiometric Studies of the Oxygen Electrode in Molten Sodium Sulphate.

C.A.C. Sequeira

J. Electrochem. Soc. 136, 2909-2913 (1989).

Factors Affecting the Conductivity of Divalent Polymeric Electrolytes.

M.A.G. Martins and C.A.C. Sequeira

J. Power Sources 32, 107-124 (1990).

Some Considerations on the Defect Chemistry of Ionic Solids.

V.M.G. Fernandes and C.A.C. Sequeira

Czech. J. Phys. 40, 1140-1155 (1990).

Candidate Materials for Electric Vehicle Propulsion Batteries.

C.A.C. Sequeira, A.M.G. Freitas and L.P.S. Araújo

Int. J. Global Energy Issues 2(4), 250-255 (1991).

Mild Steel Pitting Corrosion Inhibition by Organic Carboxylates.

M.S. de Sá and C.A.C. Sequeira

Corrosion Prevention & Control 38, 55-61 (1991).

AC Conductivity of Polymer Complexes Formed by Poly(ethylene oxide) and Nickel Chloride.

M.J.C. Plancha, C.M. Rangel and C.A.C. Sequeira

Solid State Ionics 58, 3-7 (1992).

Electrical Breakdown Phenomena in (PEO)xLiF3CSO3 Ion-

Conducting Polymers.

C.A.C. Sequeira and A. Hooper

Journal of Power Sources, 40, 271-282 (1992).

Effect of Crosslinking Sulphochlorinated Polyethylene with Polyvinyl Chloride.

C.A.C. Sequeira, L.P.S. Araujo and F.D.S. Marquis

Mol. Cryst. Liq. Cryst., 230, 191-196 (1993).

Electroanalytical Study of the Reduction of K2WCl6 in Molten LiCl-KCl Eutectic.

C.A.C. Sequeira

J. Electrochem. Soc., 140, 2526-2529 (1993).

Effect of low level conduction on the oxygen permeability of calcia-stabilized zirconia.

C.A.C. Sequeira

Elektrokhimiya, 29 (12), 1446-1454 (1993).

Prospects for sensors of biologically-induced corrosion.

C.A.C. Sequeira

Elektrokhimiya, 29 (12), 1541-1553 (1993).

Diffusion of impurities in liquid metals using solid electrolytes.

C.A.C. Sequeira

Molten Salt Forum, 1-2, 329-343 (1993).

Electrochemical studies in low temperature amide melts.

M.O.S.P. Caldeira and C.A.C. Sequeira

Molten Salt Forum, 1-2, 407-410 (1993).

Conductivity studies on solid polymer electrolytes.

C.A.C. Sequeira, M.J.C. Plancha and L.S.P. Araújo

Journal de Physique IV, C1, 4, 17-35 (1994).

Cathodic oxygen reduction on noble metal and carbon electrodes.

P.S.D. Brito and C.A.C. Sequeira

J. Power Sources, 52, 1-16 (1994).

Inorganic, physicochemical, and microbial aspects of copper corrosion: literature survey

C.A.C. Sequeira

British Corrosion Journal, 30, 137-153 (1995).

Electrochemical impedance spectroscopy measurements on lithium salt containing interpenetrating polymer networks.

M.J.Hudson and C.A.C. Sequeira

J. Electrochem. Soc., 142, no.12, 4013-4017 (1995).

Development of energy-storage devices for a cleaner environment.

C.A.C. Sequeira, L.P.S. Araújo and A M.G. Pacheco International J. Power & Energy Systems, 16, nº2, 56-59 (1996).

Microbiologically influenced corrosion of copper in potable

water installations - a European project review.

D. Wagner, A.H.L. Chamberlain, W.R. Fischer, J.N. Wardell

and C.A.C. Sequeira

Materials and Corrosion, 48, 311-321 (1997).

Some studies in the poly(ethylene oxide) - zinc chloride system.

M.J. Plancha, C.M. Rangel, C.A.C. Sequeira and M.J. Hudson

J. Applied Electrochem., 27, 1290-1296 (1997).

Electrochemical cleaning in metal treatment processes and

characteristics of regeneration of metals.

C.I.S. Martins, M.S.M.A. Matela and C.A.C. Sequeira

Surface engineering and Applied Electrochemistry, 2, 33-37 (1997).

Use of electrodialysis for prolonging the life of electroless nickelling baths.

C.C.C. Silva, G.M.D. Ferreira and C.A.C. Sequeira, Surface Engineering and Applied Electrochemistry, 2, 38-43 (1997).

Cation mobility in poly(ethylene oxide) solid electrolytes.

M.J. Plancha, C.M. Rangel and C.A.C. Sequeira

J. Electroanal. Chem., 442, 91-97 (1998).

Pseudo-equilibrium phase diagrams for PEO-Zn salts based

electrolytes.

M.J.C. Plancha, C.M. Rangel and C.A.C. Sequeira

Solid State Ionics, 116, 293-300 (1999).

Diffusion of sodium in liquid metals using solid electrolytes.

C.A.C. Sequeira

Journal of Molecular Liquids, 83 (1-3), 119-129 (1999).

Physicochemical characterization of TiO2 (powder and glass) covered by styrylpyrylium cations. SEM examination.

M. Momirlan and C.A.C. Sequeira

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“Nickel-rare earth (RE=Ce,Dy,Sm) electrodes for H2O2 reduction in direct borohydride fuel cells”, D.M.F. Santos, D.S.P. Cardoso, B. Šljukic, C.A.C. Sequeira, D. Macciò, and A. Saccone, 229th Meeting of The Electrochemical Society, Symposium “Heterogeneous functional materials for energy conversion and storage” (presentation #I05-1542), Hilton San Diego Bayfront, San Diego (CA), USA, May 29-June 2, 2016.

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"Células de combustível baseadas nos gases obtidos na fermentação, gaseificação ou pirólise de resíduos carbonáceos"

P.S.D. Brito, A.F. Mota, J.L. Carvalho, L.F.F.T.T.G. Rodrigues, D.M.F. Santos, D.B. Barrio, D.M. Justo, C.A.C. Sequeira, 1st International Congress of Energy and Environment Engineering and Management (CIIEM), Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Portalegre, 18 a 20 de Maio de 2005.

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L.P.S. Araújo, D.M.F. Santos, and C.A.C. Sequeira

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"Nickel Coated Electrodes for Oxygen Evolution in Alkaline Solution"

C.A.C. Sequeira, D.M.F. Santos, E. Cameron, and P.S.D. Brito

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C.A.C. Sequeira, D.M.F. Santos, and R.F.M Lobo

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"On the Features of Ultramicroelectrodes"

D.M.F. Santos, R.F.M. Lobo, and C.A.C. Sequeira

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"Effect of Sodium Borohydride on the Hydrogen Diffusion in MmNi3.6Mn0.4Al0.3Co0.7 Hydride Electrode"

C.A.C. Sequeira, Y. Chen, and D.M.F. Santos

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"Diffusion-Controlled Processes in Nuclear Reactor Oxide Systems"

C.A.C. Sequeira and D.M.F. Santos

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"Current-Voltage Measurements on Indium Phosphide Schottky Diodes"

C.A.C. Sequeira and D.M.F. Santos

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"Anodic Polarisation Characterisation of Absorbed Hydrogen in Modified Mm(B5)x Alloys"

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C.A.C. Sequeira, D.M.F. Santos, J.R. Sousa, and P.S.D. Brito

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"Development of a Mischmetal-Based Hydrogen Storage Electrode Alloy as a Fuel Cell Anode Catalyst"

Y. Chen, D.M.F. Santos, C.A.C. Sequeira and R.F.M. Lobo

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"Electrocatalytic Performances of Fe-P and Modified Fe-P Deposited Materials as Hydrogen Electrodes in Alkaline Water Electrolysis"

C.A.C. Sequeira, J.R. Sousa, D.M.F. Santos, and P.S.D. Brito

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“Polymeric membranes for direct borohydride fuel cells: a comparative study”

D.M.F. Santos and C.A.C. Sequeira

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“Metal hydrides for hydrogen storage and distribution”

D.M.F. Santos, Y. Chen, and C.A.C. Sequeira

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“Effect of operational parameters on the performance of direct borohydride / hydrogen peroxide fuel cells”, D.M.F. Santos, P.G. Saturnino, and C.A.C. Sequeira, 61st Annual Meeting of the International Society of Electrochemistry, Acropolis Convention Centre, Nice, France, 26 September - 1 October, 2010.

“Platinum-rare earth electrodes for hydrogen production”, D.M.F. Santos, C.A.C. Sequeira, D. Macciò, A. Saccone, and J.L. Figueiredo, 9th ESEE – 9th European Symposium on Electrochemical Engineering, Panorama Hotel, Chania, Crete, Greece, June 19-23, 2011.

“Pt-based alloys for borohydride oxidation”, D.M.F. Santos, P.G. Saturnino, D. Macciò, A. Saccone, and C.A.C. Sequeira, 9th ESEE – 9th European Symposium on Electrochemical Engineering, Panorama Hotel, Chania, Crete, Greece, June 19-23, 2011.

“Cation diffusivity in nonstoichiometric tungsten trioxide films”, C.A.C. Sequeira, L.F.F.T.T.G. Rodrigues, A.L.N. Morais, and D.M.F. Santos, 9th ESEE – 9th European Symposium on Electrochemical Engineering, Panorama Hotel, Chania, Crete, Greece, June 19-23, 2011.

“Transition metal foam electrocatalysts for hydrogen evolution reaction”,

D.M.F. Santos, S. Eugénio, C.A.C. Sequeira, and M.F. Montemor,

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“Palladium-based electrocatalysts for direct borohydride fuel cells”,

B. Šljukic, J. Milikic D.M.F. Santos, and C.A.C. Sequeira,

EHEC 2014 - European Hydrogen Energy Conference, P-184, Hotel Meliá Sevilla, Seville, Spain, March 12-14, 2014.

“Mo2C electrocatalysts for hydrogen evolution: effect of carbon-support”,

B. Šljukic, D.M.F. Santos, L. Amaral, R.P. Rocha, C.A.C. Sequeira, and J.L. Figueiredo,

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“Nickel-cerium electrodes for hydrogen evolution in alkaline water electrolysis”,

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“Optimising the cathode performance of alkaline electrolysers: Effect of temperature and electrolyte concentration”,

L. Amaral, D.M.F. Santos, B. Šljukic, and C.A.C. Sequeira,

HYCELTEC 2013 - IV Iberian Symposium on Hydrogen, Fuel Cells and Advanced Batteries, poster PP46, Estoril Congress Center, Estoril, Portugal, June 26-28, 2013.

“Carbon nanotube-supported Mo2C electrocatalysts for hydrogen production from water electrolysis”,

D.M.F. Santos, B. Šljukic, L. Amaral, R.P. Rocha, C.A.C. Sequeira, and J.L. Figueiredo,

HYCELTEC 2013 - IV Iberian Symposium on Hydrogen, Fuel Cells and Advanced Batteries, poster PP50, Estoril Congress Center, Estoril, Portugal, June 26-28, 2013.

“Alternative, non-Pt electrocatalysts for O2 reduction”,

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“Pt-Dy cathode electrocatalysts for alkaline water electrolysis”,

D.M.F. Santos, B. Šljukic, C.A.C. Sequeira, D. Macciò, A. Saccone, and J.L. Figueiredo,

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“Effect of RTILs on the hydrogen evolution reaction in alkaline media”, L. Amaral, D.S.P. Cardoso, B. Šljukic, D.M.F. Santos, and C.A.C. Sequeira, 229th Meeting of The Electrochemical Society, Symposium “Hydrogen and oxygen evolution catalysis for water electrolysis 2” (poster #I03-1450), San Diego Convention Center, San Diego (CA), USA, May 29-June 2, 2016.

11. Línguas

Língua

Leitura

Escrita

Conversação

Inglês

Excelente

Excelente

Excelente