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Qualifications

12 Sep 1999 → 17 Jul 2003 Engineering Doctorate Materials Engineering, University of Wales, Swansea, Eng.D (Swan)
11 Sep 1997 → 15 Sep 1999 Master of Philosophy Materials Engineering, University of Wales, Swansea, M.Phil
1 Sep 1993 → 14 Jul 1997 Bachelor of Science with Honours Chemistry with Environmental Chemistry, University of Wales, Swansea, BSc.(Hons)
Chartered Chemist, C.Chem
Chartered European Chemist, EurChem
Chartered Scientist, C.Sci

Research outputs

Green and Controllable Preparation of Cu/Zn Alloys Using Combined Electrodeposition and Redox Replacement
Wang, Z., Yliniemi, K., Wilson, B. P. & Lundström, M., 11 Apr 2022, In: ACS Sustainable Chemistry and Engineering. 10, 14, p. 4770–4779

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Yliniemi, K., Wragg, D., Wilson, B. P., McMurray, H. N., Worsley, D. A., Schmuki, P. & Kontturi, K., 2013, In: *Electrochimica Acta*. 88, xx, p. 278-286

Investigation into the Effect of Spot Weld Electrode Life and Quality on the Corrosion Behavior of Galvanized Automotive Steel Using the Three-dimensional Scanning Vibrating Technique

Wilson, B. P., Searle, J. R., Yliniemi, K., Jones, T. B., Worsley, D. A. & McMurray, H. N., 2013, In: ECS Transactions. 50, 47, p. 53-64

Life cycle assessment of gas atomised sponge nickel for use in alkaline hydrogen fuel cell applications

Wilson, B. P., Lavery, N. P., Jarvis, D. J., Anttila, T., Rantanen, J., Brown, S. G. R. & Adkins, N. J., 2013, In: *Journal of Power Sources*. 243, XX, p. 242-252

Life cycle assessment of sponge nickel produced by gas atomisation for use in industrial hydrogenation catalysis applications

Lavery, N. P., Jarvis, D. J., Brown, S. G. R., Adkins, N. J. & Wilson, B. P., 2013, In: *International journal of life cycle assessment*. 18, 2, p. 362-376

Combined in situ electrochemical impedance spectroscopy-UV/Vis and AFM studies of Ag nanoparticle stability in perfluorinated films

Yliniemi, K., Özkaya, B., Alissawi, N., Zaporotjchenko, V., Strunskus, T., Wilson, B. P., Faupel, F. & Grundmeier, G., 2012, In: *Materials Chemistry and Physics*. 134, 1, p. 302-308

Effect of probe tip inclination on the response of the Scanning Vibrating Electrode Technique to an idealised pit-like feature

Wilson, B. P., Searle, J. R., Yliniemi, K., Worsley, D. A. & Mc-Murray, H. N., 2012, In: *Electrochimica Acta*. 66, 66, p. 52-60

Determining the Stability of Perfluorinated Ag Nanoparticle Coatings Using in situ UV/Vis-EIS and AFM

Yliniemi, K., Öskaya, B., Alissawi, N., Zaporotjchenko, V., Strunskus, T., Wilson, B., Faubel, F. & Grundmeier, G., 2011, *ECASIA'11, 4 - 9 Sept 2011, Cardiff, UK*.

QCM study of the adsorption of polyelectrolyte covered mesoporous TiO₂ nanocontainers on SAM modified Au surfaces

Pomorska, A., Yliniemi, K., Wilson, B. P., Shchukin, D., Johannsmann, D. & Grundmeier, G., 2011, In: *Journal of Colloid and Interface Science*. 362, 1, p. 180-187

Effect of viscosity and applied potential on oscillations at a PtPt dual-electrode in a ferricyanide system

Wilson, B. P., Yliniemi, K., Murtoimäki, L. & Kontturi, K., 2010, In: *Electrochimica Acta*. 55, 15, p. 4669-4675

Sympathetic current oscillations at an enzyme electrode induced by potential oscillations at a Pt surface

Wilson, B. P., Yliniemi, K., Murtoimäki, L. & Kontturi, K., 2009, In: *Electrochemistry Communications*. 11, 12, p. 2328-2331

Towards Oscillating and Active Enzyme Surfaces

Wilson, B., Yliniemi, K., Saloheimo, M., Linder, M. & Kontturi, K., 2009, (5th Kurt Schwabe Symposium, Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany, May 24 - 28, 2009).

Effect of additives on smut-layer formation and pitting during aluminum etching in hydrochloric acid

Wilson, B. P., Dotremont, A., Biesemans, M., Willem, R., Campestrini, P. & Terryn, H., 1 Jan 2008, In: Journal of the Electrochemical Society. 155, 1

Different Approaches for Surface Modifications: Inhibition of Copper Corrosion and Surfaces with Strongly Adhering Ag Nanoparticles

Yliniemi, K., Barranco, V., Wilson, B., Huuppola, M., Kontturi, K. & Vahvaselkä, M., 2008, *59th Annual Meeting of the International Society of Electrochemistry, Sevilla, Spain, 7.-12.9.2008*.

The formation and characterisation of ultra-thin films containing Ag nanoparticles.

Yliniemi, K., Vahvaselkä, M., Van Ingelgem, Y., Baert, K., Wilson, B. P., Terryn, H. & Kontturi, K., 2008, In: Journal of Materials Chemistry. 18, 2, p. 199-206

Surface Modifications of Metals with Strongly Adhering Silver Nanoparticles

Yliniemi, K., Van Ingelgem, Y., Baert, K., Wilson, B., Grundmeier, G., Terryn, H. & Kontturi, K., 2007, (ECASIA'07, Brussels, Belgium, 9.-14.9.2007).

Formation of ultra-thin amorphous conversion films on zinc alloy coatings: Part 2: Nucleation, growth and properties of inorganic-organic ultra-thin hybrid films

Wilson, B., Fink, N. & Grundmeier, G., 1 Apr 2006, In: Electrochimica Acta. 51, 15, p. 3066-3075 10 p.

Formation of ultra-thin amorphous conversion films on zinc alloy coatings: Part 1. Composition and reactivity of native oxides on ZnAl (0.05%) coatings

Fink, N., Wilson, B. & Grundmeier, G., 15 Mar 2006, In: Electrochimica Acta. 51, 14, p. 2956-2963 8 p.

Investigating changes in corrosion mechanism induced by laser welding galvanised steel specimens using scanning vibrating electrode technique

McMurray, H. N., Searle, J. R., Wilson, B. P. & Worsley, D. A., 1 Jan 2002, In: British Corrosion Journal. 37, 3, p. 225-230 6 p.

Mechanistic and spatial study of ultrasonically induced luminol chemiluminescence

McMurray, H. N. & Wilson, B. P., 20 May 1999, In: Journal of Physical Chemistry A. 103, 20, p. 3955-3962 8 p.

Hydrogen evolution and oxygen reduction at a titanium sonotrode

McMurray, H. N., Worsley, D. A. & Wilson, B. P., 21 Apr 1998, In: Chemical Communications. 8, p. 887-888 2 p.

Activities

Scientific Reports (Journal)

Ben Wilson (Editorial board member)
Sep 2021 → ...

Kerli Liivand

Mari Lundström (Host) & Ben Wilson (Host)
Jun 2021 → Dec 2021

Science of the Total Environment (Journal)

Ben Wilson (Reviewer)
2021 → ...

My Life in Science and Research

Ben Wilson (Speaker)

30 Oct 2020

My Life in Science and Research

Ben Wilson (Speaker)

27 Oct 2020

Finland - Michigan Energy Circle: Combating Climate Change

Ben Wilson (Organiser), Anna Stefanopoulou (Organiser) & Markku Kivistö (Organiser)

26 Oct 2020 → 12 Nov 2020

Minerals (Journal)

Ben Wilson (Reviewer)

20 Jun 2020

Johannes Herman Potgieter

Ben Wilson (Host) & Mari Lundström (Host)

3 Feb 2020 → 30 Jun 2020

Chemical Engineering and Processing (Journal)

Ben Wilson (Reviewer)

2020

ChemPhysChem (Journal)

Ben Wilson (Reviewer)

2020

Elsevier Science Ltd. (Publisher)

Ben Wilson (Reviewer)

2020

PROCESS SAFETY AND ENVIRONMENTAL PROTECTION (Journal)

Ben Wilson (Reviewer)

2020

International Process Metallurgy Symposium

Ben Wilson (Member)

5 Nov 2019

Annual Meeting of the International Society of Electrochemistry

Ben Wilson (Participant), Arman Dastpak (Member), Kirsi Yliniemi (Member), Sarah Höhn (Member), Mariana Monteiro (Member), Sannakaisa Virtanen (Member) & Mari Lundström (Member)

8 Aug 2019

Towards Circular Economy of Metals via Electrodeposition – Redox Replacement (EDRR)

Kirsi Yliniemi (Speaker), Zulin Wang (Contributor), Petteri Halli (Contributor), Ivan Korolev (Contributor), Pyry-Mikko Hannula (Contributor), Ben Wilson (Contributor) & Mari Lundström (Contributor)

4 Aug 2019 → 9 Aug 2019

Remote Referee

Ben Wilson (Examiner)

Aug 2019

World Circular Economy Forum

Ben Wilson (Member), Pertti Kauranen (Participant), Pyry-Mikko Hannula (Member), Mari Lundström (Participant), Taru Henriksson (Participant) & Meri Löyttyniemi (Participant)
3 Jun 2019 → 4 Jun 2019

Battery Recycling in Practice

Ben Wilson (Speaker) & Mari Lundström (Contributor)
12 Feb 2019

Recycling for the Future

Ben Wilson (Speaker)
24 Jan 2019

Recycling for the Future

Ben Wilson (Speaker)
19 Dec 2018

My Life in Science and Research

Ben Wilson (Speaker)
9 Nov 2018

Sustainable Precious Metal Recovery by Electrodeposition-Redox Replacement (EDRR)

Kirsi Yliniemi (Speaker), Benjamin Wilson (Contributor), Ivan Korolev (Contributor), Petteri Halli (Contributor), Pyry-Mikko Hannula (Contributor), Zulin Wang (Contributor) & Mari Lundström (Contributor)
4 Sep 2018

Annual Meeting of the International Society of Electrochemistry

Benjamin Wilson (Member)
3 Sep 2018

Environmentally Friendly Coatings Derived from Biorefinery Side Streams for Improved Stainless Steel Corrosion Resistance

Benjamin Wilson (Speaker), Arman Dastpak (Contributor), Kirsi Yliniemi (Contributor), Mariana Monteiro (Contributor), Sarah Höhn (Contributor), Sannakaisa Virtanen (Contributor) & Mari Lundström (Contributor)
3 Sep 2018

Ali Ahmadi Ameleh

Benjamin Wilson (Host) & Mari Lundström (Host)
1 Jul 2018 → 10 Sep 2018

Maryam Khezri Khabisi

Benjamin Wilson (Host) & Mari Lundström (Host)
1 Jul 2018 → 10 Sep 2018

Friedrich-Alexander University Erlangen-Nürnberg

Benjamin Wilson (Visiting researcher) & Kirsi Yliniemi (Visiting researcher)
31 May 2018 → 10 Jun 2018

Effect of Impurities in Precious Metal Recovery by Electrodeposition-Redox Replacement Method from Industrial Side-Streams and Process Streams

Kirsi Yliniemi (Speaker), Petteri Halli (Contributor), Ivan Korolev (Contributor), Zulin Wang (Contributor), Pyry-Mikko Hannula (Contributor), Benjamin P. Wilson (Contributor) & Mari Lundström (Contributor)
15 May 2018

Electrochemical Society Meeting

Benjamin Wilson (Member)

14 May 2018

Environmentally friendly coatings for improved stainless steel corrosion resistance from biorefinery side streams

Benjamin Wilson (Speaker)

14 May 2018

Heui-Joo Choi

Benjamin Wilson (Host) & Mari Lundström (Host)

1 Apr 2018 → 30 Nov 2018

Circular Economy and Metal Resources

Ben Wilson (Speaker)

12 Mar 2018

Aleksei Kritskii

Benjamin Wilson (Host) & Mari Lundström (Host)

Jan 2018 → May 2018

International Process Metallurgy Symposium in honour of Professor Pekka Taskinen

Benjamin Wilson (Member)

7 Nov 2017 → 8 Nov 2017

Metals and the Circular Economy: processing of battery wastes

Benjamin Wilson (Speaker)

23 Oct 2017

Yelyzaveta Rublova

Benjamin Wilson (Host) & Mari Lundström (Host)

1 Oct 2017 → 15 Dec 2017

Electrochemical Society Meeting

Benjamin Wilson (Member)

28 May 2017

Deposition of Ultrathin Cellulose Nanofibers Films As Bio-Implant Corrosion Coatings

Benjamin Wilson (Speaker), Niina Paukkonen (Contributor), Kirsi Yliniemi (Contributor), Minna Hakalahti (Contributor), Tekla Tammelin (Contributor), Eero Kontturi (Contributor) & Mari Lundström (Contributor)

27 May 2017 → 2 Jun 2017

Study of Transport Properties of Polyelectrolyte-Cellulose Acetate Membranes

Janina Hakanpää (Contributor), Kirsi Yliniemi (Speaker), Benjamin Wilson (Contributor), Ferdinand Singer (Contributor), Sarah Höhn (Contributor), Eero Kontturi (Contributor) & Sannakaisa Virtanen (Contributor)

27 May 2017 → 2 Jun 2017

"Can Wood Stop Rust? Creating Cellulose-Based Coatings for Metals from Biorefining By-Products"

Benjamin Wilson (Speaker)

23 May 2017

Do Researchers Dream of Thermoelectric Trees?

Benjamin Wilson (Speaker)

May 2017

Waste Management (Journal)

Benjamin Wilson (Reviewer)
2017

Mineral Engineering Conference, Swieradow-Zdroj, Lower Silesia, Poland

Benjamin Wilson (Contributor)
25 Sep 2016 → 28 Sep 2016

Biopolymer-Polyelectrolyte Membranes for Mg Corrosion Control

Benjamin Wilson (Speaker)
4 Sep 2016 → 7 Sep 2016

IUPAC (External organisation)

Benjamin Wilson (Member)
13 Jul 2016 → ...

Journal of Alloys and Compounds (Journal)

Benjamin Wilson (Reviewer)
2016

Metals (Journal)

Benjamin Wilson (Reviewer)
2016

International Hydrometallurgy Symposium in honor of Professor Olof Forsén

Benjamin Wilson (Member)
2 Nov 2015 → 3 Nov 2015

Electrochemical Society Meeting

Benjamin Wilson (Member)
11 Oct 2015 → 15 Oct 2015

Baltic Electrochemistry Conference

Benjamin Wilson (Organiser)
1 Aug 2015 → 30 Jun 2016

Use of Biopolymer-Polyelectrolyte Membranes to Control Mg Corrosion

Benjamin Wilson (Speaker), Kirsi Yliniemi (Contributor), Ferdinand Singer (Contributor), Sarah Höhn (Contributor), Eero Kontturi (Contributor), Lasse Murtomäki (Contributor) & Sannakaisa Virtanen (Contributor)
13 Apr 2015 → 15 Apr 2015

Journal of Cleaner Production (Journal)

Benjamin Wilson (Reviewer)
2015 → 2016

Foreign Organisation

Benjamin Wilson (Visiting researcher)
1 Apr 2014 → 1 May 2014

Friedrich-Alexander-Universität Erlangen-Nürnberg

Benjamin Wilson (Visiting researcher)
2014

The 2014 ECS and SMEQ (Sociedad Mexicana de Electroquímica) Joint International Meeting, Oct. 5-9, 2014, Cancun, Mexico

Benjamin Wilson (Contributor)
2014

UK Colloids 2014, London, 6th to 9th July,, United Kingdom

Benjamin Wilson (Contributor)
2014

University (External organisation)

Benjamin Wilson (Chair)
2014

University (External organisation)

Benjamin Wilson (Chair)
2014

University (External organisation)

Benjamin Wilson (Chair)
2014

Royal Society of Chemistry (External organisation)

Benjamin Wilson (Chair)
2013

ISE 2012, Prague, 18th-23 August 2012, Czech Republic

Benjamin Wilson (Contributor)
2012

Electrochemistry Communications (Journal)

Benjamin Wilson (Reviewer)
2011 → ...

University of Paderborn

Benjamin Wilson (Visiting researcher)
2010

5th Kurt Schwabe Corrosion Symposium, 24th to 28th May, Germany

Benjamin Wilson (Contributor)
2009

Electrochemistry Communications (Journal)

Benjamin Wilson (Reviewer)
2009

Electrochimica Acta (Journal)

Benjamin Wilson (Reviewer)
2009

Royal Society of Chemistry Annual General Meeting, 19th to 21st November, UK

Benjamin Wilson (Contributor)
2009

University (External organisation)

Benjamin Wilson (Chair)
2009

University (External organisation)

Benjamin Wilson (Chair)
2009

Electrochimica Acta (Journal)

Benjamin Wilson (Reviewer)
2007

Prizes**Galloway Award**

Wilson, Ben (Recipient), 2002

JWT Jones Travelling Fellowship Royal Society of Chemistry, England

Wilson, Ben (Recipient), 2014

Projects**CERES Mod5 Microplas**

Wilson, B. & Lohtander-Piispa, T.
01/05/2018 → 31/12/2020

CMEco: Circular Metal Ecosystem

Aji, A., Kalliomäki, T., Leikola, M., Jafari, S., Hamuyuni, J., Khalid, M. K., Lundström, M., Wilson, B., Agarwal, V., Elomaa, H., Partinen, J., Revitzer, H., Wang, Z., Halli, P., Sinisalo, P., Seisko, S. & Peng, C.
01/01/2017 → 30/04/2019

Cleaning of Mining Waters by Metal Recovery (CleanMET)

Halli, P., Wilson, B., Lundström, M., Johansson, L. & Hannula, P.
01/06/2016 → 14/11/2016

Closing the Loop for High-added-value Materials

Lundström, M., Wilson, B., Aaltonen, M., Peng, C., Porvali, A. & Revitzer, H.
01/04/2016 → 31/08/2019

ELMERY: Electrochemical Recovery of Currently Wasted Valuable Metals

Lundström, M., Wilson, B., Yliniemi, K., Halli, P., Revitzer, H. & Sahlman, M.
01/07/2020 → 30/04/2022

BATCircle2.0: Finland-based circular ecosystem of battery metals

Lundström, M., Chernyaev, A., Wilson, B., Karppinen, A., Lappalainen, H., Wang, Z., Revitzer, H., Sahlman, M., Halli, P., Zou, Y., Rinne, M., Partinen, J., Le, T. & Xiao, Y.
01/05/2021 → 30/04/2024

BATCIRCLE: Finland-based Circular Ecosystem of Battery Metals

Lundström, M., Chernyaev, A., Kalliomäki, T., Liu, F., Wilson, B., Khalid, M. K., Hu, F., Aromaa, J., Aromaa, R., Karppinen, A., Forde, G., Ke, P., Porvali, A., Palomäki, H., Partinen, J., Seisko, S., Ruismäki, R., Revitzer, H., Zhang, J., Zou, Y., Shukla, S., Rinne, M., Peng, C., Sahlman, M. & Wang, Z.
01/01/2019 → 30/04/2021

HELIOS: High-pErformance moduLar battery packs for sustainable urban electrOmobility Services

Lundström, M., Wilson, B., Chernyaev, A., Sahivirta, H., Rostami, A. & Arellano Sanchez, D.
01/01/2021 → 31/12/2024

HydroMetEC - 19033 - 2020

Lundström, M. & Wilson, B.
01/01/2020 → 31/12/2020

HydroMetEC - 19033 - 2021

Lundström, M., Aromaa, J., Wilson, B. & Halli, P.
01/01/2021 → 31/12/2021

JAROGAIN - Liiketoimintaa sinkkijätteen arvometalleista

Jafari, S., Leikola, M., Lundström, M., Halli, P. & Wilson, B.
01/01/2016 → 31/12/2017

METYK: METYK - Metallialan Ympäristö- ja Kiertotalous

Leikola, M., Wilson, B., Lundström, M., Aaltonen, M., Peng, C., Elomaa, H., Porvali, A. & Halli, P.
01/01/2016 → 31/05/2017

NoWASTE: Novel Precious Metal Recovery from Waste Streams

Yliniemi, K., Lundström, M., Wilson, B., Barranco Asensio, V., Karppinen, A., Hannula, P., Halli, P., Revitzer, H. & Wang, Z.
01/09/2016 → 31/12/2020

RESTART: REcycling of spent Li-ion batteries and end-life photovoltaic panels : From the development of metal recovery processes to the implementation of a START-up

Wilson, B.
01/02/2022 → 28/02/2025

ReVolt - Lundström - 2019

Lundström, M., Chernyaev, A., Wilson, B., Klemettinen, A., Klemettinen, L., Jokilaakso, A., Revitzer, H. & Partinen, J.
01/01/2019 → 31/12/2019

Sustainable Drug Discovery and Development with End-of-Life Yield

Lundström, M., Wilson, B., Agarwal, V., Dastpak, A., Revitzer, H., Halli, P. & Shukla, S.
01/11/2018 → 30/06/2022

OXCOR: The effect of oxide layer on copper corrosion in repository conditions

Aromaa, J., Wilson, B., Sahlman, M., Halli, P. & Aromaa, T.
01/03/2021 → 31/01/2022

GoldTail: Towards Sustainable Gold Recovery from Tailings (GoldTail)

Wilson, B., Yliniemi, K., Lundström, M., Karppinen, A., Halli, P., Sahlman, M., Wang, Z., Revitzer, H. & Seisko, S.
01/10/2018 → 30/09/2021

TUTL Elmery Hydro Com

Lundström, M., Wilson, B., Paalanne, M. & Halli, P.
01/07/2020 → 30/04/2022

TUTL Elmery IES

Raula, J. & Wilson, B.
01/07/2020 → 31/03/2022

VYR-OXCOR 2020

Aromaa, J., Khalid, M. K., Aji, A., Dastpak, A. & Wilson, B.
01/03/2020 → 31/01/2021