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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

**The interference of copper, iron and aluminum with hydrogen peroxide and its effects on reductive leaching of  $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$**   
Chernyaev, A., Zou, Y., Wilson, B. P. & Lundström, M., 15 Jan 2022, In: Separation and Purification Technology. 281, 11 p., 119903.

**Utilizing  $\text{Cu}^+$  as catalyst in reductive leaching of lithium-ion battery cathode materials in  $\text{H}_2\text{SO}_4$ -NaCl solutions**  
Partinen, J., Halli, P., Helin, S., Wilson, B. P. & Lundström, M., Feb 2022, In: Hydrometallurgy. 208, 105808.

**Study on valuable metal incorporation in the Fe-Al precipitate during neutralization of LIB leach solution**  
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**Modelling the effect of solution composition and temperature on the conductivity of zinc electrowinning electrolytes**  
Wang, Z., Aji, A. T., Wilson, B. P., Jørstad, S., Møll, M. & Lundström, M., 13 Nov 2021, In: Metals. 11, 11, 12 p., 1824.

**Biopolymeric Anticorrosion Coatings from Cellulose Nanofibrils and Colloidal Lignin Particles**  
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**Industrial validation of conductivity and viscosity models for copper electrolysis processes**  
Kalliomäki, T., Aji, A. T., Jafari, S., Leskinen, W., Wilson, B. P., Aromaa, J. & Lundström, M., 1 Sep 2021, In: Minerals Engineering. 171, 9 p., 107069.

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**Selective lithium recovery and integrated preparation of high-purity lithium hydroxide products from spent lithium-ion batteries**  
Liu, F., Peng, C., Ma, Q., Wang, J., Zhou, S., Chen, Z., Wilson, B. P. & Lundström, M., 15 Mar 2021, In: Separation and Purification Technology. 259, 9 p., 118181.

**Selective extraction of valuable metals from spent EV power batteries using sulfation roasting and two stage leaching process**

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**Cyclic voltammetry and potentiodynamic polarization studies of chalcopyrite concentrate in glycine medium**

Khezri, M., Rezai, B., Abdollahzadeh, A. A., Wilson, B. P., Molaeinasab, M. & Lundström, M., Feb 2021, In: Transactions of Nonferrous Metals Society of China (English Edition). 31, 2, p. 545-554 10 p.

**Hazard-free treatment of electrolytic manganese residue and recovery of manganese using low temperature roasting-water washing process**

He, S., Wilson, B. P., Lundström, M. & Liu, Z., 15 Jan 2021, In: JOURNAL OF HAZARDOUS MATERIALS. 402, 11 p., 123561.

**Environmental Aspects of the Electrochemical Recovery of Tellurium by Electrochemical Deposition-Redox Replacement (EDRR)**

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**Investigation into the effect of mechanical activation on the leaching of chalcopyrite in a glycine medium**

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**Role of impurity copper in Li-ion battery recycling to LiCoO<sub>2</sub> cathode materials**

Peng, C., Lahtinen, K., Medina, E., Kauranen, P., Karppinen, M., Kallio, T., Wilson, B. P. & Lundström, M., 29 Feb 2020, In: Journal of Power Sources. 450, 8 p., 227630.

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**Extraction of Li and Co from industrially produced Li-ion battery waste – Using the reductive power of waste itself**

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**Modelling of silver anode dissolution and the effect of gold as impurity under simulated industrial silver electrorefining conditions**

Aji, A. T., Halli, P., Guimont, A., Wilson, B. P., Aromaa, J. & Lundström, M., 15 Jul 2019, In: Hydrometallurgy. 189, 7 p., 105105.

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**Recovery and separation of silver and mercury from hazardous zinc refinery residues produced by zinc oxygen pressure leaching**

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**Electro-hydraulic fragmentation vs conventional crushing of photovoltaic panels – Impact on recycling**

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**Selective extraction of lithium (Li) and preparation of battery grade lithium carbonate (Li<sub>2</sub>CO<sub>3</sub>) from spent Li-ion batteries in nitrate system**

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**Models for the diffusion coefficient of cupric ion and limiting current density in a copper electrorefining electrolyte**

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**Toxicity Identification and Evolution Mechanism of Thermolysis-Driven Gas Emissions from Cathodes of Spent Lithium-Ion Batteries**

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#### **From Waste to Valuable Resource: Lignin as a Sustainable Anti-Corrosion Coating**

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#### **Materials Matter exhibition at Slush: What if... Metals could be protected with wood?**

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#### **A direct synthesis of platinum/nickel co-catalysts on titanium dioxide nanotube surface from hydrometallurgical-type process streams**

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#### **Platinum Recovery from Industrial Process Solutions by Electrodeposition-Redox Replacement**

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#### **Kinetic study and modelling of silver dissolution in synthetic industrial silver electrolyte as a function of electrolyte composition and temperature**

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#### **Structural distinction due to deposition method in ultrathin films of cellulose nanofibres**

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#### **Time-Dependent Behavior of Cation Transport through Cellulose Acetate-Cationic Polyelectrolyte Membranes**

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#### **Selective reductive leaching of cobalt and lithium from industrially crushed waste Li-ion batteries in sulfuric acid system**

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#### **Effect of typical impurities for the formation of floating slimes in copper electrorefining**

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#### **Recovery and separation of gallium(III) and germanium(IV) from zinc refinery residues: Part II: Solvent extraction**

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**Extraction of Ga and Ge from zinc refinery residues in H<sub>2</sub>C<sub>2</sub>O<sub>4</sub> solutions containing H<sub>2</sub>O<sub>2</sub>**

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**Exclusive surface modification of cellulose nanopapers by adsorption of polymers from non-aqueous solvents**

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**Fundamental differences due to deposition method in ultrathin films of cellulose nanofibres**

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**Carbon Nanostructure Based Platform for Enzymatic Glutamate Biosensors**

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**Improved Metal Circular Economy-Selective Recovery of Minor Ag Concentrations from Zn Process Solutions**

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**Modelling the physico-chemical effect of silver electrorefining as effect of temperature, free acid, silver, copper and lead concentrations**

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**Parameters affecting monolayer organisation of substituted polysaccharides on solid substrates upon Langmuir-Schaefer deposition**

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**Value-added materials from the hydrometallurgical processing of jarosite waste**

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**An experimental and CFD investigation into the mixing in a closed system stirred vessel**

Wilson, B., 2014, *KES Transactions on Sustainable Design and Manufacturing: Proceedings from SDM'2014 International Conference on Sustainable Design and Manufacturing Cardiff, Wales, UK 28-30 April 2014*. Setchi, R., Howlett, R. J., Naim, M. & Seinz, H. (eds.). 1 ed. Vol. 1. p. 720-732 12 p.

**Formation of Pt/Pb nanoparticles by electrodeposition and redox replacement cycles on fluorine doped tin oxide glass**

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 TiO<sub>2</sub> 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 Pt/Pt dual-electrode in a ferricyanide system**

Wilson, B. P., Yliniemi, K., Murtomäki, 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., Murtomäki, 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. & Terry, 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), Pyy-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), Pyy-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) &amp; 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) &amp; Mari Lundström (Contributor)

3 Sep 2018

**Ali Ahmadi Ameleh**

Benjamin Wilson (Host) &amp; Mari Lundström (Host)

1 Jul 2018 → 10 Sep 2018

**Maryam Khezri Khabisi**

Benjamin Wilson (Host) &amp; Mari Lundström (Host)

1 Jul 2018 → 10 Sep 2018

**Friedrich-Alexander University Erlangen-Nürnberg**

Benjamin Wilson (Visiting researcher) &amp; 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) &amp; 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) &amp; 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, T.

01/05/2018 → 31/12/2020

### CMEco: Circular Metal Ecosystem

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

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., Revitzer, H., Peng, C. & Porvali, A.

01/04/2016 → 31/08/2019

### ELMERY: Electrochemical Recovery of Currently Wasted Valuable Metals

Lundström, M., Halli, P., Wilson, B., Yliniemi, K., Sahlman, M. & Revitzer, H.

01/07/2020 → 31/03/2022

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

Lundström, M., Chernyaev, A., Revitzer, H., Zou, Y., Partinen, J., Rinne, M., Wilson, B., Karppinen, A., Sahlman, M., Lappalainen, H., Halli, P. & Wang, Z.

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., Shukla, S., Revitzer, H., Rinne, M., Seisko, S., Partinen, J., Aromaa, J., Wang, Z., Ruismäki, R., Sahlman, M., Zhang, J., Aromaa, R., Zou, Y., Karppinen, A., Palomäki, H., Forde, G., Ke, P., Porvali, A. & Peng, C.

01/01/2019 → 30/04/2021

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

Lundström, M., Wilson, B., Rostami, A. & Chernyaev, A.

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., Halli, P. & Wilson, B.

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

**NoWASTE: Novel Precious Metal Recovery from Waste Streams**

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

**ReVolt - Lundström - 2019**

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

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

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

**GoldTail: Towards Sustainable Gold Recovery from Tailings (GoldTail)**

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

**TUTL Elmery Hydro Com**

Lundström, M., Paalanne, M., Halli, P. & Wilson, B.  
01/07/2020 → 31/03/2022

**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