Editorial

Hugh D. Burrows*, Richard M. Hartshorn* and Ron D. Weir

The 2019 Nobel Prize in Chemistry

https://doi.org/10.1515/pac-2019-2922

Keywords: Akira Yoshino; John B. Goodenough; M. Stanley Whittingham; lithium ion batteries; Nobel Prize in Chemistry; solid state chemistry.

Pure and Applied Chemistry warmly congratulates John B. Goodenough (University of Texas at Austin, USA), M. Stanley Whittingham (Binghamton University, State University of New York, USA) and Akira Yoshino (Asahi Kasei Corporation, Tokyo, Japan, and Meijo University, Nagoya, Japan) on the award of the 2019 Nobel Prize in Chemistry. The citation from the Royal Swedish Academy of Sciences states that the award is "for the development of lithium-ion batteries". Lithium ion batteries are versatile, light weight, rechargeable power storage devices, and are found in applications as diverse as laptop computers, tablets, mobile phones and electric vehicles, in addition to contributing to storage of renewable energy from solar, wind power and other sources. Current systems rely on a metal oxide cathode, with intercalated lithium ions diffusing from a negative electrode through an appropriate electrolyte to the positive electrode during discharge. Professor Goodenough published the highly relevant article "Solid electrolytes" in *Pure and Applied Chemistry* in 1995 [1], based on a presentation at the thirteenth IUPAC Conference on Chemical Thermodynamics, held in Clermont-Ferrand, France 17–22 July 1994. This is available with free access at https://doi.org/10.1351/pac199567060931.

Given the subject area of this Nobel Prize, it is timely that we are able to congratulate the awardees in this issue of the *Journal* devoted to papers from the 13th Conference on Solid State Chemistry.

Reference

[1] J. B. Goodenough. Pure Appl. Chem. 67, 931 (1995).

Ron D. Weir: Department of Chemistry and Chemical Engineering, Royal Military College of Canada, Kingston, Ontario, Canada

^{*}Corresponding authors: Hugh D. Burrows, Scientific Editor, Pure and Applied Chemistry, Department of Chemistry, University of Coimbra, 3004-535 Coimbra, Portugal, e-mail: burrows@ci.uc.pt; and Richard M. Hartshorn, Secretary General, International Union of Pure and Applied Chemistry, Chair, Pure and Applied Chemistry, Editorial Advisory Board and Professor of Chemistry, School of Physical and Chemical Sciences, University of Canterbury, Christchurch, New Zealand, e-mail: richard.hartshorn@canterbury.ac.nz