**Professor David J. Fermín**

School of Chemistry, University of Bristol, Cantocks Close, Bristol, BS8 1TS, UK.

**Keywords**: Electrochemistry, Photoelectrochemistry, Solar Energy Conversion, Electrocatalysis, Nanostructured Metal and Semiconductor Materials, Diamond and Carbon based Electrodes.

Professional Preparation

1986 – 1991 **First degree in Chemistry**, Universidad Simón Bolívar, Caracas, Venezuela. Research Advisor: Prof. Benjamin R. Scharifker

1993 – 1996 **PhD in Chemistry**, University of Bath, Bath, UK. Research Advisor: Prof. Laurence M. Peter

1997 – 2000 **Postdoctoral Fellow**, Laboratoire d'Electrochimie, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland. Research Advisor: Prof. Hubert H. Girault

Professional Appointments

2013 – **Professor of Electrochemistry**, School of Chemistry, University of Bristol

2007 – 2013 **Reader in Physical Chemistry**, School of Chemistry, University of Bristol

2003 – 2009 **Swiss National Science Foundation Professor in Chemistry**, Departement für Chemie und Biochemie, Universität Bern, Switzerland, and the School of Chemistry, University of Bristol

2000 – 2003 **Research Fellow**, Institut de Chimie Moléculaire et Biologique, EPFL, Switzerland

1991 – 1993 **Research Assistant**, Laboratorio de Electroquímica, Universidad Simón Bolívar, Venezuela

Awards and Distinctions

2001 – Tajima Prize for his contributions to the field of Photoelectrochemistry, International Society of Electrochemistry

2003 – Swiss National Science Foundation Professorial Fellowship

2007 – Invited Professorship at the Academy of Natural Sciences of Venezuela

2009 – Invited Professorship at the Ecole Normale Superieure Cachan (France)

2015 – University Research Fellow, Institute of Advanced Studies, University of Bristol

2016 – Visiting Research Associate, Division of Chemistry and Chemical Engineering, Caltech (US)

Recently Funded Projects

Research portfolio in excess of £8 million since 2007

**EPSRC** - In-situ probing structure and electronic properties of transition metal oxide electrocatalysts (2015)

**EPSRC** - Centre for Doctoral Training in Functional Materials: The BCFN (2014)

**Leverhume Trust** - Novel Dehydrogenase-based Architectures for Electrocatalytic Conversion of Liquid Fuels (2014)

**EPSRC** - Photovoltaic Technology based on Earth Abundant Materials – PVTEAM (2013)

**EPSRC** - The Ironworks: a mechanistic foundry for iron-catalysed cross-coupling (2013)

**EPSRC** - Electrochemical Oxidation of Low Molecular Weight Alkanes to Liquid Fuels at Molecular Interfaces (2012)

Recent Invited Talks

**CEC Annual Workshop on Electrochemistry 2016**: Charge Transfer across Thin Organic Films at Semiconductor Surfaces. Austin, February 13-14

**Electrochem 2015**: Transition metal oxide nanoparticles as electrocatalysts. Durham, September, 13-15

**ChinaNANO 2015**: Electrochemistry of Solvent-Free Myoglobin Constructs. Beijing September, 3-5

**16th ISE Topical Meeting 2015**: High Surface Area Diamond Electrodes Templated by Vertically Aligned Carbon Nanotubes. Angra dos Reis, March 22-26.

**MRS Fall Meeting 2014**: High Surface Area Diamond Electrodes Grown on Vertically Aligned Carbon Nanotubes. Boston November 30 to December 5

**Diamond and Carbon Materials 2014**: Diamond Particles as Dimensionally Stable Supports for Electrocatalysis, Madrid, September 8 -11

**MRS Spring Meeting 2014**: Dynamic Photoelectrochemical Responses in Oriented High Aspect Ratio Semiconductor Assemblies. San Francisco, April 21-25

**Canadian Chemical Society 2014**: Electrocatalysis at Bimetallic Nanostructures: Feeling the Strain. Vancouver, June 1-5