Loïc Simonin

Speciality: Materials chemistry, energy storage and conversion, electrochemistry

Personal details:

April 5th, 1978 Date of birth: Tel: +31(0) 15 213 9513

Nationality: French Mobile: (NI) +31(0) 6 38725921

> +33 676 190796 (Fr)

Address: Verwersdijk 122 E-mail: l.simonin@gmail.com

> 2611NL Delft The Netherlands

Objectives:

- Use my expertise in the field of materials chemistry and electrochemistry, my creativity, my skills in communicating and team-working.

- Apply these competencies to ambitious research and development projects in the field of energy storage and energy conversion like batteries and fuel cells.

Education:

15/01/2004 - 15/01/2008	PhD in materials chemistry at TUDelft (Delft University of Technology) Research Group: DelftChemTech, Laboratory for NanoStructured Materials. Research topic: Sn and Sb nano-materials for lithium battery negative electrodes. Supervisors: Dr. E. Kelder, Prof. J. Schoonman, Prof. S. Picken.
01/10/2001 - 30/09/2003	Master's degree in Materials chemistry at Université de Provence (Marseille, France): Subject: Thin films and divided materials (DESS Matériaux Minces ou Divisés).
01/10/1996 -30/09/2001	Bachelor's degree in Physics and Chemistry (Licence Sciences Physiques) at Université de Perpignan / Université de Provence.
1993-1996	Scientific high school degree. Lycée Jean Lurçat, Perpignan.

Work experience:

(INVESTIRE)

Current position (until December 2008)	Post-Doctoral position at TUDelft. Synthesis and characterisation of new cathode materials for Li-ion batteries.
15/01/2004 - 15/01/2008	PhD at TUDelft. Laboratory work (Synthesis and characterisation, glove box operation and maintenance), redaction of scientific literature, oral presentations, teaching and supervision, contribution to different international conferences and project meetings.
01/04/2003 - 30/09/2003	Internship (Master's project) in CEA-GENEC laboratory, Cadarache, France. Management assistance of a European network of renewable energy storages

January 2001 Internship in MADIREL laboratory, Marseille, France.

Modulation modes in Thermoporometry (pore size measurement using low temperature

Differential Scanning Calorimetry)

Skills:

Technical: X-Ray Diffraction, Transmission and scanning electron microscopy, Electrochemistry

(EIS, CV, potentiometry, Amperometry...), thermo-analysis (TGA, DSC...). Glove box operation and maintenance. Spark Discharge Generator. Chemical synthesis. Gas phase

synthesis.

Computer: - Operating Systems: Windows, MacOS, Unix

- Software: Word, Excel, Origin, Powerpoint, LateX, Photoshop, Paintshop pro, etc.

- Programming languages: Pascal, Basic, Fortran, HTML.

Languages: French: Mother Tongue, English: Fluent, Dutch, Spannish: basic skills

Publications:

2008 Synthesis of Nanoparticles of Cu, Sb, Sn, SnSb and Cu2Sb by Densification and Atomization Process

Journal of Nanoscience and Nanotechnology Vol.8, 1-7, 2008 U. Lafont, L. Simonin, N.S. Tabrizi, A. Schmidt-Ott, and E.M. Kelder

2008 SnSb micron-sized particles for li-ion batteries.

Journal of Power Sources, Volume 180, issue 2, June 2008, Pages 859-863,

L. Simonin, U. Lafont, and E.M. Kelder.

2007 Sb/O nano-composites produced via Spark Discharge Generation for Li-ion battery anodes,

Journal of Power Sources, Volume 174, Issue 2, 6 December 2007, Pages 805-809,

L. Simonin, U. Lafont, N. Tabrizi, A. Schmidt-Ott and E.M. Kelder

2007 Carbon coating via an alkyl phosphonic acid grafting route: Application on TiO₂,

Journal of Power Sources, Volume 174, Issue 2, 6 December 2007, Pages 1104-1108,

U. Lafont, L. Simonin, M. Gaberscek and E.M. Kelder

2007 Mg-doped LiNi_{0.5}Mn_{1.5}O₄ spinel for cathode materials,

Journal of Power Sources, Volume 174, Issue 2, 6 December 2007, Pages 847-851,

C. Locati, U. Lafont, L. Simonin, F. Ooms and E.M. Kelder

2007 Sn-Co compound for Li-ion battery made via advanced electrospraying

Journal of Power Sources, Volume 174, Issue 2, 6 December 2007, Pages 428-434,

M. Valvo, U. Lafont, L. Simonin and E.M. Kelder.

2003 Evaluation and perspectives of storage technologies for PV electricity.

Proceedings Of 3rd World Conference On Photovaltaic Energy Conversion, Volumes A-C, 2003, Page 2194,

M. Perrin, P. Malbranche, F. Mattera, L. Simonin, D. U. Sauer, P. Lailler, A. Joessen, and B. Willer., Vols A-C,

p. 2194, 2003.

Personal experience and hobbies:

Music: Saxophone with jazz and pop-music bands. Musical studies in conservatoire. Guitar.

Travelling: (Spain, Poland, Czech republic, Romania, Morocco, Vietnam, Cambodia...).

Internet: Webmaster of "Agnes Plume Photography" (http://ag.plume.free.fr).

Sports: Climbing, hiking, bicycle, badminton, swimming...

Photography: Digital and analog photography (good knowledge in dark room work).