

SHORT CURRICULUM VITAE

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<i>Diploma</i>	Ph.D. Physics, Université Pierre et Marie Curie (1991) Engineer Physics & Instrumentation, CNAM, Paris (1979) DEST Physics, CNAM, Paris (1977) DEST Instrumentation, CNAM, Paris (1976)	
<i>Employments (past)</i>	2005-2010 Senior researcher (CNRS), Institut des Nanosciences de Paris 1997-2005 Senior researcher (CNRS) at the LMDH-UPM 1995-2002 Assistant professor at Université Paris V 1985-2002 Senior researcher at the LPS-UPMC	
<i>Employment (present)</i>	Senior researcher at PECSA-Université Pierre et Marie Curie Consultant at IREQ (Canada)	
<i>Scientific activities</i>	Spectroscopy: FTIR, Raman, photoluminescence, ESR (semiconductor physics, solid state chemistry) Growth of semiconductors (oxides, thin films) Solid-State Physics : x-ray, optical spectroscopy, thermal analysis, transport and magnetic properties (pure and doped semiconductors, fast-ion conductors, intercalation compounds, mixed conductors) Solid state electrochemistry (Li-ion batteries, microbatteries)	
<i>Present activities and expertises</i>	Materials for energy storage and conversion Nanomaterials Infrared and Raman spectroscopy of solids Ionic and electronic transport in solid	
<i>Memberships</i>	The Electrochemical Society (USA) The International Solid State Ionics Society	
<i>Other activities</i>	Associate Editor of Ionics Associate Editor for Materials Science & Engineering The Scientific Committee of Solid State Ionics Euroconferences Director of the NATO-ASI (Materials for Energy Storage)	
<i>Publications and scientific productions</i>	<i>Papers published in International Journals</i> 481 <i>Papers presented in National and International Conferences</i> 388 <i>Ph-D guidances</i> 26 <i>Chapters</i> 21 <i>Books</i> 22	

Selected papers

1. Surface effects on the physical and electrochemical properties of thin LiFePO₄ particles, K. Zaghib, A. Mauger, F. Gendron and C.M. Julien, *Chem. Mater.* **20** (2008) 462.
2. Small magnetic polaron effect in lithium iron phosphates, A. Mauger, K. Zaghib, F. Gendron and C.M. Julien, *Ionics* **14** (2008) 209.
3. Aging of LiFePO₄ upon exposure to H₂O, K. Zaghib, M. Dontigny, P. Charest, J.F. Labrecque, A. Guerfi, M. Kopec, A. Mauger, F. Gendron and C.M. Julien, *J. Power Sources* **185** (2008) 698.
4. Study of the Li-insertion/extraction process in LiFePO₄/FePO₄, C.V. Ramana, A. Mauger, F. Gendron, C.M. Julien and K. Zaghib, *J. Power Sources* **187** (2009) 555.
5. Non-stoichiometric LiFePO₄: defects and related properties, P. Axmann, C. Stinner, M. Wohlfahrt-Mehrens, A. Mauger, F. Gendron and C.M. Julien, *Chem. Mater.* **21** (2009) 1636.
6. Heavy-fermion behaviour and electrochemistry of Li_{1.27}Mn_{1.73}O₄, M. Kopeć, J.R. Dygas, F. Krok, A. Mauger, F. Gendron, B. Jaszczak-Figiel, A. Pietraszko, K. Zaghib and C.M. Julien, *Chem. Mater.* **21** (2009) 2525.
7. Minimization of the cation mixing in Li_{1+x}(NMC)_{1-x}Co_{1/3}O₂ as cathode material, X. Zhang, W. J. Jiang, A. Mauger, L. Qi, F. Gendron and C.M. Julien, *J. Power Sources* **195** (2010) 1292.
8. LiFePO₄ : from molten ingot to nanoparticles with high-rate performance in Li-ion batteries, K. Zaghib, P. Charest, M. Dontigny, A. Guerfi, M. Lagace, A. Mauger, M. Kopec and C.M. Julien, *J. Power Sources* **195** (2010) 8280.
9. Magnetic analysis of lamellar oxides for Li-ions batteries, X. Zhang, C.M. Julien, A. Mauger and F. Gendron, *Solid State Ionics* **188** (2011) 148.
10. LiCo_{1-y}B_yO₂ as cathode materials for rechargeable lithium batteries, C.M. Julien, A. Mauger, H. Groult, X. Zhang and F. Gendron, *Chem. Mater.* **23** (2011) 208.
11. Safe and fast-charging Li-ion battery with long shelf life for power applications, K. Zaghib, M. Dontigny, A. Guerfi, P. Charest, A. Mauger, C.M. Julien, *J. Power Sources* **196** (2011) 3949.
12. Aging of LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ cathode material upon exposure to H₂O, Xiaoyu Zhang, W. J. Jiang, X. P. Zhu, A. Mauger, Qilu and C.M. Julien, *J. Power Sources* **196** (2011) 5102.
13. Study of Co-Sn and Ni-Sn alloys prepared in molten chlorides and used as negative electrode in rechargeable lithium battery, H. Groult, H. El-Ghallali, A. Barhoun, E. Briot, C.M. Julien, F. Lantelme and S. Borensztjan, *Electrochim. Acta* **56** (2011) 2656.
14. Surface effects on electrochemical properties of nano-sized LiFePO₄, C.M. Julien, A. Mauger and K. Zaghib, *J. Mater. Chem.* **21** (2011) 9955.
15. In-situ HRTEM synthesis observation of nanostructured LiFePO₄, M.L. Trudeau, D. Laul, R. Veillette, A.M. Serventi, K. Zaghib, A. Mauger and C.M. Julien, *J. Power Sources* **196** (2011) 7383.
16. De-intercalation of LiCo_{0.8}Mn_{0.2}O₂: a magnetic approach, H.A.M. Abuzeid, A.M.A. Hashem, A.E. Abdel-Ghany, A.E. Eid, A. Mauger, H. Groult and C.M. Julien, *J. Power Sources* **196** (2011) 6440.
17. Characterization of Na-based phosphate as electrode materials for electrochemical cells, K. Zaghib, J. Trottier, P. Hovington, F. Brochu, A. Guerfi, A. Mauger and C.M. Julien, *J. Power Sources* **196** (2011) 9612.
18. Study of the surface modification of LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ cathode material for lithium ion battery, A.M.A. Hashem, A.E. Abdel-Ghany, A.E. Eid, J. Trottier, K. Zaghib, A. Mauger and C.M. Julien, *J. Power Sources* **196** (2011) 8632.
19. Structural properties and electrochemistry of α-LiFeO₂, A.E. Abdel-Ghany, A. Mauger, H. Groult, K. Zaghib and C.M. Julien, *J. Power Sources* **197** (2012) 285.
20. Overview of olivines in lithium batteries for green transportation and energy storage, K. Zaghib, A. Mauger and C.M. Julien, *J. Solid State Electrochem.* **16** (2012) 835.