Prof. Ismael SAADOUNE
45 years old, Moroccan
Married, three children

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FULL PROFESSOR,
DOCTOR, University Bordeaux (FRANCE).
DOCTOR, University Cadi Ayyad (MOROCCO)
HEAD of the CHEMISTRY DEPARTEMENT
COORDINATOR of the FACULTY RESEARCH COMMITTEE
MEMBER of the FACULTY SCIENTIFIC COMMITTEE
MEMBER OF THE UNIVERSITY RESEARCH COUNCIL
MEMBER OF THE UNIVERSITY MANAGING COUNCIL
PRINCIPAL INVESTIGATOR OF MORE THAN 10 RESEARCH PROJECTS
PEER REVIEWER OF MORE THAN 20 RESEARCH PAPERS

Academic qualifications

1992-1996 **Moroccan Ph.D. in "Solid State Chemistry and Materials Science"**
Univesity Cadi Ayyad, Faculté des Sciences SEMLALIA
Diploma awarded with honors.

Title: Physico-chemical and electrochemical characterization of a new positive electrode materials for high energy density batteries.

1989-1992 **French Ph.D. in "Solid State Chemistry and Materials Science"**
ICMCB and ENSCPB (Institut de Chimie de la Matière Condensée de Bordeaux and Ecole Nationale Supérieure de Chimie et de Physique de Bordeaux) University of Bordeaux I
Diploma awarded with honors

Title : $LiNi_{1-y}Co_yO_2$ positive electrode materials : structure, physical properties and electrochemical relationships.

1988-1989 **Master Course in Materials Science,** awarder for University Bordeaux I
1986-1988 **Maîtrise (graduate studies)** awarded from the University of Hassan II (Casablanca).
1984-1986 **DEUG (undergraduate studies)** awarded from the University of Hassan II (Casablanca)

Training and Experience

1988/1996 **Ph.D. research topics**:

- *solid state synthesis and ion-exchange reactions*
- *Sol-Gel, Pechini, Combustion Synthesis methods*
- *Lithium-ion batteries, electrochemical cycling*
- *X-Ray Diffraction, Rietveld Refinement*
- *Solid State Nuclear Magnetic Resonance*
- *Scanning Electron Microscopy*
- *Electronic conductivity, thermoelectric power*
- *Magnetism*

1996-2001 **Guest professor in ICMCB (Institut de Chimie de la Matière Condensée de Bordeaux-CNRS), FRANCE**

- ♦ *Synthesis of new positive electrode material.*
- ♦ *Correlation between the electrochemical behavior and the structural features of materials.*

July 2002 **Guest professor in Tokyo University of Science, JAPAN**

- ♦ *Lectures and conferences on new positive electrode material.*

June 2005 **Guest professor in Technical University of Darmstadt, GERMANY**

- ♦ *Electrochemical performances of the layered materials,*
- ♦ *Conferences*

March 2006 **Guest professor in Polytechnic University of Barcelona, SPAIN**

Feb. 2007 **Guest professor in Uppsala University, Angstrom Lab., SWEDEN**

- ♦ *Electrochemical performances of phosphates,*
- ♦ *Practices to Master Students*

May 2008 **Guest professor in Tokyo University of Science, JAPAN**

- ♦ *Courses for Master Students: Materials for Energy*
- ♦ *Practices for Master Students: Synthesis methods, Rietveld Refinement*

February 2009 **Guest professor in Uppsala University, Angstrom Lab., SWEDEN**

June 2010 **Guest professor in Uppsala University, Angstrom Lab., SWEDEN**

October 2010 **Guest Professor of the European Master (Erasmus Mundus): MESC Network, SPAIN.**

Languages

Arabic :	First language.
French :	Read, written and spoken, second maternal language.
English :	Read, written and spoken
German :	basic knowledge

Leader of the following research projects

1. Project : CNRST (Centre National de Recherche Scientifique et Technique, MOROCCO) – CNRS (Centre National de Recherche Scientifique**, FRANCE**), **2002-2005,**
2. Research project PROTARS : Programme Thématique d'Appui à la Recherche Scientifique PROTARS II, **MOROCCO, 2002-2006**,
3. Project PELUR : Programme d'Equipement des Laboratoires Universitaires de Recherche, **MOROCCO**, **2003-2007,**
4. Project CORUS, French Foreign Minster **, FRANCE, 2005-2008**,
5. Project REMAT, Moroccan Network on Material Chemistry, **MOROCCO, 2004-2008**,
6. Third World Academy of Sciences TWAS, **2006,**
7. Project CNRST (MOROCCO) - DFG (**GERMANY), 2006-2010,**
8. Project CNRST (MOROCCO)-CSIC **(SPAIN), 2006-2009,**
9. Project : MOROCCO-TUNISIA, **2007-2009,**
10. Project MOROCCO-AECI (SPANISH RESEARCH AGENCY), **2007-2008,**
11. Project : MENA VR Swedich Research Council, **SWEDEN 2007,**
12. Project : MENA VR Swedich Research Council**, SWEDEN, 2008-2010**,
13. Project CNRST (MOROCCO)-CSIC **(SPAIN), 2010-2011,**
14. Project : MOROCCO-TUNISIA, **2010-2011.**

Supervision of PhD thesis

- 2005-2009 : Mr HSINE BIH (defended the 4th july 2009)
- 2006-2010 : Mr Mohammed DAHBI (defended January 2010)
- 2006-2010 : Mr Mohamed AKLALOUCH (defended February 2010)
- 2007-2011 : Mrs Kenza MAHER
- 2007-2011 : Mr Mustapha YAHYA
- 2008-2012 : Mr Yassine BENTALEB
- 2008-2012 : Mr Abdelfettah MAHMOUD
- 2009-2013 : Mr Abdelhay BENDRISS
- 2009-2013 : Mr Mohamed LABRINI
- 2010-2014 : Mrs Karima LASRI

Commissions of trust

- Member of the evaluation board of more than 15 Phd Dissertations,
- Peer Reviewer of 'J. Alloys and Compounds', Elsevier Edition
- Peer Reviewer of 'Phys.Chem.Chem', Royal Society of Chemistry Edition,
- Peer Reviewer of 'Ionics', Springer Edition,
- Peer Reviewer of 'electrochimica acta', Elsevier Edition
- Peer Reviewer of 'Solid State Ionics', Elsevier Edition

- Peer Reviewer of 'Solid State Science', Elsevier Edition
- Peer Reviewer of 'J. Mater. Res.', Royal Society of Chemistry Edition
- Peer Reviewer of 'Electrochem. Comm.', Elsevier Edition
- Peer reviewer of 'Mat. Res. Bull.', Elsevier Edition
- Member of the evaluation board of the LMD programs,
- Member of the evaluation commission for the professor's promotion.
- Member of the Research and Academic committees of the University Council

Publications

1. Lithium rocking chair batteries : A convenient way for high energy storage on electrical vehicles ? Practical requierements and new intercalation compounds for use as positive electrode. C. Delmas, **I. Saadoune**, H. Auradou, M. Ménétrier and P. Hagenmuller, *Solid State Ionics ; Materials and Applications, ed. B.V.R. Chowdari et al.*, ***255 (1992).***
2. Electrochemical and Physical properties of the $Li_xNi_{1-y}Co_yO_2$ phases, C. Delmas and **I. Saadoune**, *Solid State Ionics,* ***53-56****, 370* ***(1992).***
3. The cycling properties of the $Li_xNi_{1-y}Co_yO_2$ electrode, C. Delmas, **I. Saadoune** and A. Rougier, *J. Power Sources*, ***43-44****, 595* ***(1993).***
4. Effect of cobalt substitution on the Jahn-Teller distortion of the $NaNiO_2$ layered oxide, C. Delmas, **I. Saadoune** and P. Dordor, *Mol. Cryst. Liq. Cryst.*, ***244****, 337* ***(1994).***
5. Li-Batteries : A convenient high density sources for electrical engine vehicles ? C. Delmas, **I. Saadoune**, H. Auradou, M. Ménétrier and P. Hagenmuller. *Solid State Sciences and Technology, 2(1),* ***45 (1994).***
6. $LiNi_{1-y}Co_yO_2$ positive electrode materials : relationships between the structure, physical properties and electrochemical behaviour. **I. Saadoune** and C. Delmas, *J. Mater. Chem.,* ***6(2),*** *193* ***(1996).***
7. Effect of cobalt substitution on cationic distribution in $Li_xNi_{1-y}Co_yO_2$ electrode materials. A. Rougier, **I. Saadoune**, P. Gravereau, P. Willmann and C. Delmas, *Solid State Ionics,* ***90****, 83* ***(1996).***
8. On the $Na_xNi_{0.6}Co_{0.4}O_2$ system : Physical and electrochemical studies., **I. Saadoune**, A. Maazaz, M.Ménétrier and C. Delmas, *J. Solid State Chem.,* ***122****, 111* ***(1996).***
9. Redox processes in $Li_XNi_{1-y}Co_yO_2$ cobalt-rich phases., **I. Saadoune**, M. Ménétrier and C. Delmas, *J. Mater. Chem.,* ***7(2),*** *2505* ***(1997).***
10. On the $Li_xNi_{0.8}Co_{0.2}O_2$ system., **I. Saadoune** and C. Delmas, *J. Solid State Chem.,* ***136****, 8* ***(1998).***
11. The insulator-metal transition upon lithium intercalation from $LiCoO_2$: electronic properties and ^7Li NMR studies. M Ménétrier, **I. Saadoune**, S. Levasseur and C. Delmas, *J. Mater. Chem.,* ***9****, 1135* ***(1999).***
12. Structure of $[NH_3(CH_2)_4NH_3]_2P_4O_{12}.2H_2O$. E.H. Soumhi, **I. Saadoune**, B.Driss and T. Jouini, *Eur. J. Solid State Inorg. Chem.* ***35****, 629* ***(1998).***
13. Structure of $[C_3H_5NH_3]_2H_2P_2O_7.H_2O$. E.H. Soumhi, **I. Saadoune**, B.Driss and T. Jouini, *Eur. J. Solid State Inorg. Chem.* ***35****, 699* ***(1998).***
14. Characterization of a New Organic-Cation Cyclotetraphosphate $(1,4\text{-}HOC_6H_4NH_3)_4P_4O_{12}.6H_2O$. E.H. Soumhi, **I. Saadoune**, B.Driss and T. Jouini, *J. Solid State Chem.,* ***144****, 318* ***(1999)****.*
15. Structure of $[C_3H_5NH_3]_2P_4O_{12}.4H_2O$. E.H. Soumhi, **I. Saadoune**, B.Driss and T. Jouini, *Acta Cryst.* ***C55, (1999).***
16. An overview of the $Li(Ni,M)O_2$ systems : syntheses, structures and properties, C. Delmas, M. Ménétrier, L. Croguennec, **I. Saadoune**, S. Levasseur, C. Pouillerie, *Electrochemica acta* ***45****, 243* ***(1999).***
17. A New Organic-Cation Cyclotetraphosphate $C_{10}H_{28}N_4P_4O_{12}.4H_2O$: Crystal Structure,Thermal Analysis and Vibrational Spectra. *E.H. Soumhi,* ***I. Saadoune****, and B.Driss. J. Solid State Chem.,* ***156****,*

364-369 ***(2001)***.

18. On the metastable O2-$LiCoO_2$ positive electrode material. D. Carlier, **I. Saadoune**, E. suard, L. Croguennec, M. Ménétrier and C. Delmas, *Solid State Ionics,* ***144*** *(3-4), 263-276* ***(2001).***

19. Lithium electrochemical deintercalation from O2-$LiCoO_2$: Structure and Physical properties. D. Carlier, **I. Saadoune**, M. Ménétrier and C. Delmas, *J. Electrochem. Soc.,* ***149*** *(10), 1310-1320* ***(2002).***

20. On the mechanism of the P2-$Na_{0.7}CoO_2$ ➔ O2-$LiCoO_2$ exchange reaction : Part I : Proposition of a model to describe the P2-O2 transitioon. F. Tournadre, L. Croguennec, **I. Saadoune**, D. Carlier, Y. Shao-Horn, P. Willmann and C. Delmas. *J. Solid State Chem.* ***177****, 2790-2802* ***(2004)***

21. The T#2-$Li_{2/3}Co_{2/3}Mn_{1/3}O_2$ System - Part I : Its structural characterization.

22. F. Tournadre, L. Croguennec, **I. Saadoune**, F. Weill, Y. Shaou-Horn, P. Willman and C. Delmas, *Chem. Mater.,* ***16****, 1411-1417* ***(2004)***

23. The T#2-$Li_{2/3}Co_{2/3}Mn_{1/3}O_2$ System - Part II.: Its electrochemical behaviour, F. Tournadre, L. Croguennec, **I. Saadoune**, M. Morcrette, P. Willman and C. Delmas. *Chem. Mater.,* ***16****, 1417-1426* ***(2004)***

24. Structures of two newly synthesized $A_{0.50}SbFe(PO_4)_3$ (A = Mn , Cd) Nasicon phases A. Aatiq, R. Hassine, R. Tigha and **I. Saadoune**, *J. Powder diffraction, 20 (1), 33-40* ***(2005).***

25. (4,4'-Methylenedianilinium hemi(cyclotetraphosphate), R. Nahouane, E.H. Soumhi, **I. Saadoune** and A. Driss, *Acta Cryst. E61, o2850-o2852* ***(2005).***

26. Bis(1,6-hexanediaminium) cyclotetraphosphate dihydrate, E.H. Soumhi, **I. Saadoune**, R. Nahouane and A. Driss, *Acta Cryst. E61, o2847-o2849* ***(2005).***

27. Tetrakis (1,4-anisidium) cyclotetraphosphatehexahydrate, E.H. Soumhi**, I. Saadoune** et A. Driss, *Acta Cryst. E62, o212-o214* ***(2006).***

28. Cristallochemistry and Structures of two newly $CaSb_{0.50}Fe_{1.5}(PO_4)_3$ and $Ca_{0.50}SbFe(PO_4)_3$ Nasicon phases. A. Aatiq, R. Tigha, R. Hasine and **I. Saadoune**, *J. Powder diffraction, 21(1),* ***(2006).***

29. Structural characterization of two $K_2SnX(PO_4)_3$ (X=Fe,Yb) with langbeinite structure, A. Aatiq,, B. Haggouch, R. Bakri; Y. Lakhdar and **I. Saadoune,** *J. Powder diffraction, 21(3), 214-219* ***(2006).***

30. The lamellar $Na_2CoP_2O_7$ pyrophosphate: Preparation, structural and spectroscopic studies, H. Bih, **I. Saadoune**, M. Mansori, *M. J. CONDENSED MATER, 7(1), 74-76* ***(2006).***

31. Tetrakis(triethanolammonium) cyclotetraphosphate, E. H. Soumhi**, I. Saadoune** and A. Driss, Acta Cryst. E63, [o2828-o2827] ***(2007).***

32. Positive Electrode Material for lithium batteries based on $LiNi_{0.6}Co_{0.2}Mn_{0.2}O_2$ oxide, **I. Saadoune,** M. Dahbi, H. Ehrenberg and H. Fuess, Proceedings of the Fourth Research Conference of Materials Science and Engineering, 113-118 (2007).

33. On the new positive electrode materials for high energy density batteries, **I. Saadoune,** M. Dahbi, M. Yahya, A. Almaggoussi, International Scientific Journal for Alternative Energy and Ecology, 6(62), 204-207 (2007) .

34. Effect of the synthesis temperature on the structure and electrochemical behaviour of the $LiNi_{0.65}Co_{0.25}Mn_{0.1}O_2$ positive electrode material, **I. Saadoune**, M. Dahbi, M. Wikberg, T. Gustafsson, P. Svedlindh and K. Edström, *Solid State Ionics, 178, 1668-1675, (2008).*

35. $Li_xNi_{0.7}Co_{0.3}O_2$ electrode material: structural, physical and electrochemical investigations, M. DAHBI, I. SAADOUNE, J.M. Amarilla, Elecrochem. Acta 53, 5266-5271 (2008).

35. Structural and electrical properties of nano-crystalline $LiCoO_2$ cathode material synthesized by a simplified combustion method, M. Yahya, **I. Saadoune**, A. Almaggoussi, A. Abounadi, A. Outzourit, Smart Materials for Energy, Communications and Security, A. Luk'yanchuk and D. Mezzane Eds, Springer Science, 145-155 (2008).

36. Chromium doping as a new approach to improve the cycling performance at high temperature of 5V $LiNi_{0.5}Mn_{1.5}O_4$-based positive electrode, M. Aklalouch, J. M. Amarila, R. M. Rojas, **I. Saadoune**, J. M . Rojo, J. Power Sources, 185, 501-511 (2008).

37. A delithiated $LiNi_{0.65}Co_{0.25}Mn_{0.1}0O_2$ electrode material: A structural, magnetic and electrochemical study, M. Dahbi, J. M. Wikberg, **I. Saadoune**, T. Gustafsson, P. Svedlindh, K. Edström, Electrochim. Acta 54, 3211-3217 (2009).

38. Crystal structure, magnetic and infrared spectroscopy studies of the $LiCr_yFe_{1-y}P_2O_7$ solid solution, H. Bih, **I. Saadoune**, H. Ehrenberg, H. Fuess, J. Solid State Chem. 182, 821-826 (2009).

39. Synthesis and characterization of carbon-coated $Li_{0.5}Ni_{0.25}TiOPO_4$ anode material, K. Maher, **I. Saadoune**, M. Mansori, T. Gustafsson and K. Edstrom, Electrochim. Acta, 54, 5531-5536 (2009).

40. The role of particle size on the electrochemical properties at 25 and 55°C of the LiCr0.2Ni0.4Mn1.4 spinel as 5V-cathode materials for lithium-ion batteries, M. Aklalouch, R.M. Rojas, J.M. Rojo, **I. Saadoune**, J.M. Amarila, Electrochim. Acta, 54, 7542-7550 **(2009).**

41. On the $LiNi_{0.2}Mn_{0.2}Co_{0.6}O_2$ positive electrode material , Y. Bentaleb**, I. Saadoune**, K. Maher, L. Saadi, K. Fujimoto and S. Ito, J. Power Sources 195, 1510-1515 **(2010).**

42. J.M. Wikberg, M. Dahbi, **I. Saadoune**, T. Gustafsson, K. Edström, P. Svdlindh, Dimensionality crossover and frustrated spin dynamics on a triangular lattice, Phys. Rev. B, 81, 2244111-2244116 **(2010).**

43. **I. Saadoune**, M. Labrini, M. Yahya, A. Almaggoussi, H. Ehrenberg, $LiNi_{0.1}Mn_{0.1}Co_{0.8}O_2$ electrode material: structural changes upon lithium electrochemical extraction, Electrochim. Acta, 55, 5180-5185 **(2010).**

44. M. Aklalouch, J. M. Amarilla, R. M. Rojas, **I. Saadoune** and J. M. Rojo, *Sub-micrometric $LiCr_{0.2}Ni_{0.4}Mn_{1.4}O_4$ spinel as 5 V-cathode material exhibiting huge rate capability at 25 and 55 °C*, Electrochem. Commun., 12(4), 548-552 **(2010).**

45. Resonant inelastic X-ray scattering and X-ray absorption spectroscopy on the cathode material $LiNi_{0.65}Co_{0.25}Mn_{0.1}O_2$, H. M. Hollmark, L. C. Duda, M. Dahbi, **I. Saadoune**, T. Gustafsson, K. Edström, J. electrochem. Soc., 157(8), A962-A966 **(2010).**

46. Magnetic order, aging, and spin frustration in a percolating spin system,$LiNi_{0.8}Co_{0.1}Mn_{0.1}O_2$, J. M. Wikberg, M. Dahbi, **I. Saadoune**, T. Gustafsson, K. Edström, and P. Svedlindh, J. App.Phys. 108, 083909 **(2010).**

47. The Electrochemical Behaviour of the carbon-coated $Ni_{0.5}TiOPO_4$ Electrode Material, K. Maher, K. Edström, **I. Saadoune**, T. Gustafsson, and M. Mansori, J. Power Sources, 196, 2819-2825 **(2011).**

48. Electrochemical Na-deintercalation from $NaVO_2$, C. Didier , C. Denage , O. Szajwaj , S. Ito , **I. Saadoune** , J. Darriet , C. Delmas, Electrochem. Solid State Lett., 14(5), A75-A78 **(2011).**

49. On the $LiCo_{2/3}Ni_{1/6}Mn_{1/6}O_2$ positive electrode material, A. Mahmoud, **I. Saadoune**, J.M. Amarilla, R. Hakkou, Electrochim. Acta accepted, DOI 10.1016/j.electacta.2011.01.118 **(2011).**

50. Resonant inelastic X-ray scattering and X-ray absorption spectroscopy on the negative electrode material $Li_{0.5}Ni_{0.25}TiOPO_4$ in a Li-ion battery, H. M. Hollmark, K. Maher, **I. Saadoune**, T. Gustafsson, K. Edström, and L.-C. Duda, Phys. Chem. Chem. Phys. accepted **(2011).**

Communications

1. Désintercalation du sodium des phases $NaNi_{1-y}Co_yO_2$, **I. Saadoune**, C. Dutruc-Ross et C. Delmas, *Groupe Français d'Etude des Composés d'Insertion (GFECI), Bordeaux (France)* ***(1991).***

2. Electrochemical and physical properties of the $Li_xNi_{1-y}Co_yO_2$ phases, C. Delmas and **I. Saadoune**, 8th International Conference on Solid State Chemistry, Lake Louise, Canada **(1991).**

3. Li-batteries : A convenient high density energy sources for electrical engine vehicles ?
C. delmas, **I. Saadoune**, H. Auradou, M. Ménétrier and P. Hagenmuller, *International Conference on Solid State Science and Technology, Penang (Malaisie)* ***(1992).***

4. On the cycling properties of the $LiNi_{1-y}Co_yO_2$ electrode. C. Delmas, **I. Saadoune** and A. Rougier, *6th International Meeting on lithium Batteries, Münster (Germany)* ***(1992).***

5. Etude par voltamétrie cyclique des nickelates cobaltés $ANi_{1-y}Co_yO_2$ (A : Li, Na), A. Rougier, **I. Saadoune**,

et C. Delmas, *GFECI), Bierville (France)* ***(1992).***

6. Le système $Li_xNi_{1-y}Co_yO_2$, C. Delmas et **I. Saadoune** *(GFECI), Bierville (France)* ***(1992).***

7. Effect of cobalt substitution on the Jahn Teller distortion of the $NaNiO_2$ layered oxide,C. Delmas, **I. Saadoune** and P. Dordor *7th International Symposium on Intercalation Compounds, Lanvin laneuve (Belgique)* ***(1993).***

8. Effect of cobalt substitution on the cationic disordering and the electrochemical behaviour of lithium nickel oxide. A. Rougier, **I. Saadoune**, P. Gravereau and C. Delmas, *International Symposium of Soft Chemistry Routes to New Materials, Nantes* ***(1993).***

9. Etude de la substitution du cobalt au nickel dans les phases $LiNi_{1-y}Co_yO_2$, A. Rougier, **I. Saadoune**, P. Gravereau, M. Ménérier et C. Delmas *Journées de la Sociétés Française de Chimie, Bordeaux (France)* ***(1993).***

10. Les matériaux d'électrode positive $LiNi_{1-y}Co_yO_2$. Etude des relations : structure, propriétés physiques et comportement électrochimique, **I. Saadoune**, A. Maazaz et C. Delmas. *REMCESVI, El Jadida (Maroc)* ***(1993).***

11. Comportement électrochimique du matériau d'électrode positive $Li_xNi_{1-y}Co_yO_2$, C. Delmas, **I. Saadoune** et A. Rougier. *SFC journée d'étude Piles et Accumulateurs au Lithium, Paris* ***(1993)***

12. Etude cristallochimique et magnétique des phases $Li_xNi_{1-y}Co_yO_2$: matériaux d'électrode positive pour batteries au lithium, A. Rougier, **I. Saadoune**, P. Gravereau et C. Delmas, *2ème Journées nationales des jeunes physico-chimistes, Bordeaux, France* ***(1994).***

13. Selective oxidation of the 3d cations upon lithium deintercalation from $Li_xNi_{1-y}Co_yO_2$ oxides: a 7Li NMR and conductivity study, M. Ménétrier, **I. Saadoune** et C. Delmas.
Vth Europeen conference on solid state chemistry, Monpellier, France ***(1995).***

14. On the $Na_xNi_{0.6}Co_{0.4}O_2$ system : physical and electrochemical studies, **I. Saadoune**, M. Ménétrier, et C. Delmas. *10th International conference on solid state ionics, Singaporé* ***(1995).***

15. RMN du ^7Li dans les phases $LiNi_{1-y}Co_yO_2$ partiellement désintercalées, M. Ménétrier, **I. Saadoune**, P. Willmann et C. Delmas. *Groupe Français d'Etude des Composés d'Insertion (GFECI), Nancy Mont Sainte Odile (France)* ***(1995).***

16. Réactions d'Intercalation/désintercalation de métaux alcalin alcalins dans les oxydes lamellaires $A_xNi_{1-y}Co_yO_2$ (A : Li, Na), **I. Saadoune**, M. Ménétrier et C. Delmas. *VIIème Rencontre Marocaine sur la Chimie de l'Etat Solide (REMCES), Marrakech (Maroc)* **(1996).**

17. ^7Li NMR characterization of deintercalated Li_xCoO_2 phases, M. Ménétrier, **I. Saadoune**, S. Levasseur et C. Delmas .*9th International Meeting on Lithium Batteries IMLB, Edinburgh, Scotland, United Kingdom* ***(1998).***

18. Electronic properties and ^7Li NMR characterization of $Li_xNi_{1-y}Co_yO_2$ ($0.2 < x < 1.0$) systems.
C. Delmas S. Levasseur, **I. Saadoune** et M. Ménétrier. *The second Japan-France joint seminar on lithium batteries, Marioka, Japan* ***(1998).***

19. Sur de nouveaux cyclotétraphosphates à cations organiques, E.H. Soumhi, **I. Saadoune**, A. Driss et T. Jouini, *VIIIème Rencontre Marocaine sur la Chimie de l'Etat Solide (REMCES), Tétouan (Maroc)* ***(1999).***

20. Electronic and structural properties upon deintercalation in $LiCoO_2$ and $LiNi_{0.1}Co_{0.9}O_2$ electrode materials, **I. Saadoune**, S. Levasseur, M. Ménétrier and C. Delmas. *13th International Battery materials Association, Marrakech , Maroc* ***(1999).***

21. La transition métal-non métal dans : RMN et propriétés électriques, S. Levasseur, **I. Saadoune**, M. Ménétrier et C. Delmas. *Groupe Français d'étude des composés d'insertion GEFCI 99, Ile de Noirmoutier, France* ***(1999).***

22. Le système Li_xCoO_2 ($0.5 < x < 1.0$), **I. Saadoune**, S. Levasseur, M. Ménétrier et C. Delmas.
VIIIème Rencontre Marocaine sur la Chimie de l'Etat Solide (REMCES), Tétouan (Maroc) ***(1999).***

23. RMN du lithium dans Li_xCoO_2 : utilisation des interactions dues aux spins électroniques, M. Ménétrier, S. Levasseur, **I. Saadoune** et C. Delmas. *TRANSEL 99, Monpellier, France* ***(1999).***

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