

Curriculum Vitae

Personal status

Name: Fouad **EI HAJ HASSAN**
Date and Place of Birth: 23/08/1972 Chmestar, Lebanon
Citizenship: Lebanese - French
Marital status: Married + three sons



Personal Address: Daher Elsawane, Chmestar
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Department of Physics
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URL: http://users.ictp.it/~fel_haj/

Academic References

- 1- *Prof. Olivier Pagès*, Head of Laboratoire de Physique des Milieux Denses (LPM D), Institut de Physique, Technopôle, 1 Bd. Arago, 57078 Metz, France. Email: pages@univ-metz.fr; Tel: +33 3 87315885, Fax: +33 3 87315885.
- 2- *Prof. A. Qteish*, Department of Physics, Yarmouk University, Irbid – Jordan, E-mail: aqteish@yu.edu.jo Tel. 962-2-7211111/Ext. 2418 (office) 2449 (laboratory) 3315 (home), Fax: +962-2-7211117
- 3- *Prof. H. Akbarzadeh*, Head of the Physics department, Isfahan University of Technology, Isfahan 8415, Iran. Email: akbarzad@cc.iut.ac.ir ; Tel: +98-311-3912375; Fax: +98-311-3912376.
- 4- *Prof. M. Zoater*, dean of the engineering faculty, and also head of the condensed matter laboratory in faculty of Sciences (I) at the Lebanese university, B.P. 13-5789 Chouran, Beirut, Lebanon. Email: zoater@ul.edu.lb Tel: +961-3-645149; Fax: +961-5-800428

Activity

- Winner of the price of best paper published by a Lebanese scientist in 2005 which was supported by the UNESCO as world physics year.
- Junior Associate member to the ICTP (International Center for Theoretical Physics) (Trieste-Italy) until 31/12/2012.
- Referee of the “*Journal of Applied Physics*”, Publisher “AIP”.
- Referee of the “*Journal of Physics D: Applied Physics*”, Publisher “IOP”.
- Referee of the “*Materials Science in Semiconductor Processing*”, Publisher “Elsevier”.
- Referee of the “*journal of alloys and compounds*”, Publisher “Elsevier”.
- Referee of the “*Opticals Communications*”, Publisher “Elsevier”.
- Referee of the “*Journal of Molecular Structure*”, Publisher “Elsevier”.
- Referee of the “*International Journal of Quantum Chemistry*”, Publisher “Wiley”.
- Referee of the journal of “*Physica status solidi b*”, Publisher “Wiley”.

- Referee of the journal of “*ModernPhysics Letters B*”, Publisher “*World scientific*”.
- Member of the organization and scientific committee of «6th Material Science Meeting Franco-Lebanese (CSM6) 15-17 may 2008 Beirut-Lebanon».
- Member of the organization committee of «5th Material Science Meeting Franco-Lebanese (CSM5) 26-28 may 2006 Beirut-Lebanon».
- Member of the scientific committee of the “International Meeting on Electronics and Electrical Science and Engineering (IMEESE’2006)” in November 2006 at the University of Djelfa (Algeria)”

Qualifications

- June 1995: Maîtrise in Physics (Lebanese University).
- June 1997: D. E. A “master” Metz University, France.
- July 2000: PhD thesis in materials sciences at LPLI Institute of Metz University (France), supervisor Pr M. Certier. **Thesis: «Study of the electronic and structural properties of the Boron and copper halides compounds»**
- Septembre 2001: diplôme «TUXEDO Administration and development»
BEA System – Tour Manhattan; Paris la défense-France.
- Mars 2001: diplôme « Utilisateur Rational Clearcase (NT) »
Rational University – The development company-Franced
- May 2005: School on: Electronic-structure calculations and their applications in materials science
ICTP – INFN/Democritos – ISMO – IUT (Isphahan) 25 April – 6 May 2005.

Computational methods

1. In our research, we use the program package WIEN2k which allows performing electronic structure calculations of solids using density functional theory (DFT). It is based on the full-potential (linearized) augmented plane-wave ((L)APW) + local orbitals (lo) method, one among the most accurate schemes for band structure calculations. In DFT the local (spin) density approximation (LDA) or the improved version of the generalized gradient approximation (GGA) can be used. WIEN2k is an all-electron scheme including relativistic effects and has many features.
2. We use also a PWscf (Plane-Wave Self-Consistent Field) program package which is a set of programs for electronic structure calculations within Density-Functional Theory and Density-Functional Perturbation Theory, using a Plane-Wave basis set and pseudopotentials.

Professional qualifications

- 2001-To date: Professor at the Lebanese University – Faculty of Sciences (I), Physics department.
- 01/07/2010-08/07/2010: Invited professor researcher to the Annaba University - Algeria
- 16/05/2010-29/05/2010: Invited senior researcher, ICTP Trieste –Italy.
- 24/07/2009-07/09/2009: Invited senior researcher to ICTP Trieste –Italy.
- 02/02/2009-02/03/2009: Invited professor to the Metz University-France.
- 07/06/2005-10/05/2005: Senior researcher in the physics department of Isfahan University (IUT) which is an affiliated center of ICTP (Trieste) (Prof. H. Akbarzadeh). We focused our work in the structural, electronic and thermodynamic properties of $Zn_xMg_{1-x}S$, $Zn_xMg_{1-x}Se$ and $Zn_xMg_{1-x}Te$ semiconductor alloys. In addition the quaternary alloys $Zn_{1-x}Mg_xSe_yTe_{1-y}$ have been investigated using the FP-LAPW method.
- 08/20/2004-11/25/2004: Senior researcher in IUT which is an affiliated center of ICTP (Prof. H. Akbarzadeh). We was investigated the barium chalcogenides BaX ($X=S, Se, Te$) and Boron alloys using the FP-LAPW method.
- 07/25/2003-10/25/2003: Senior researcher in IUT affiliated center of ICTP (Prof. H. Akbarzadeh). We was investigated the matlockite compounds MFx ($M=Ca, Sr, Ba, Pb; X=Cl, Br, I$) using the FP-LAPW method.

2000-2002: Engineer data processing at the MAP Company (Paris-France) which makes part of ALTRAN group (I was worked as UNIX administration)

1999-2000: Temporary tenure track position (ATER) at the Metz University (France).

1998-1999: Tutorial, 1st year BSC students, Physics department, Lebanese University

Computer sciences

System: UNIX, Linux and Windows.

Programming: Turbo Pascal, Assembler, FORTRAN, Script Shell, SQL, Tuxedo, HTML

Software: Matlab, origin, Maple, Excel, Access, Clear case (NT), Oracle, Wien2K, PWscf.

Languages

1.French: Fluently.

2.English: very good.

3.Italian: Read, write.

4.Arab: Mother tongue.

Teaching experiences

	Level	Section	University	Hour's Nb/year
Decision I & II	1 st Year	Computer Sciences	CNAM	60/4
Resistance of Materials	1 st Year	Engineering	CNAM	60/1
Binary Calculations	1 st Year	Computer Sciences	CNAM	60/2
Electronics	3 rd Year	Communications	BCU	36/4
Electric circuits I	3 rd Year	Communications	BCU	36/5
Solid stat Physics I	3 rd Year	Physics	Lebanese university	48/1
Solid stat Physics II	Master I	Physics	Lebanese university	48/2
Density functional theory	Master II	Physics	Lebanese university	24/1
Semiconductors	3 rd Year	Phys/Electron	Lebanese university	72/9
Modern Physics	2 nd Year	Physics	Lebanese university	72/5
Statistic Physics	4 th Year	Physics	Lebanese university	72/1
Mechanics	1 st year	Physics	Lebanese university	72/3
Optics	1 st year	Biochemistry	Lebanese university	72/2
TP Atomic	4 th Year	Physics	Lebanese university	24/8
TP Physics	4 th Year	Chemistry	Lebanese university	48/8
TP Electricity	2 nd Year	Physics	Lebanese university	36/2
TD et TP Physics	1 st year	DEUG TI	Metz U. - France	18
TD et TP Physics	2 nd Year	DEUG SV2	Metz U. - France	24
TP electronic	3 rd Year	IUP GSI	Metz U. - France	24
TP electronic	3 rd Year	E.E.A.	Metz U. - France	80
TP electronic	4 th Year	Physics	Metz U. - France	12

Supervision of graduate and undergraduate students

- 2010: Master student, Lebanese university.
- 2007: PhD student, Lebanese university + Metz University (France).
- 2007: Master student, Lebanese university.
- 2006: 3 B. Sc students, Lebanese university.
- 2004: 3 B. Sc students, Lebanese university.

- 2003: one M. Sc student, IUT.
- 1998: 2 B. Sc students, Metz University.

Publications in Scientific Journals (http://users.ictp.it/~fel_haj/publications.htm)

- 1) - "Full potential linear augmented plane wave calculations of structural and electronic properties of BN, BP, BAs and BSb",
A. Zaoui and **F. El Haj Hassan**.
J.Phys.: Condens. Matter 13 No 2 (2001) 253-262.
- 2) - "Structural properties of copper halides ",
F. El Haj Hassan, A. Zaoui and W. Sekkal.
Material Science and Engineering B 87/1 (2001) 40-47.
- 3) - "Electronic structure of $\text{CuCl}_x(\text{Br})_{1-x}$, $\text{CuCl}_x(\text{I})_{1-x}$, $\text{CuBr}_x(\text{I})_{1-x}$ alloys",
F. El Haj Hassan and A. Zaoui.
Superlattices and Microstructures 30, (2001) 75-80.
- 4) - "Application of FLAPW method to the study of electronic proprieties of semi-conductors with d valence electrons",
A. Zaoui and **F. El Haj Hassan**.
Phil. Mag. B82, 7 (2002) 791-800
- 5) - "First-principles analysis of $\text{C}_x(\text{BN})_{1-x}$ ordered alloy",
A. Zaoui and **F. El Haj Hassan**.
Superlattices and Microstructures 32, (2002) 91-97.
- 6) -"Structural properties of boron compounds at high pressure"
F. El Haj Hassan, H. Akbarzadeh, M. Zoeter
J. Phys.: Condens. Matter, 16 (2004) 293-301.
- 7) -"Theoretical study of structural and electronic properties of CaFI"
F. El Haj Hassan, H. Akbarzadeh and S. J. Hashimifar
J. Phys.: Condens. Matter, 16 (2004) 3329-3337.
- 8) -"Structural and electronic properties of matlockite compounds MFX"
F. El Haj Hassan, H. Akbarzadeh, S.J. Hachimifar, A. Moukhtari
J. Phys. Chem. Solids, 65 (2004) 1871-1878
- 9) - "First-principles calculations on the origins of the gap bowing in $\text{BeS}_x\text{Se}_{1-x}$, $\text{BeS}_x\text{Te}_{1-x}$ and $\text{BeSe}_x\text{Te}_{1-x}$ alloys"
F. El Haj Hassan
Phys. Stat. sol. (b), 242 (2005) 909-915
- 10) - "Theoretical analysis of the structural and electronic properties of bcc tellurium under high pressure"
F. El Haj Hassan, A.Hijazi, M. Zoeter and F. Bahsoun
Physica B, 363 (2005) 82-87
- 11) - "First-principles investigation of $\text{BN}_x\text{P}_{1-x}$, $\text{BN}_x\text{As}_{1-x}$ and $\text{BP}_x\text{As}_{1-x}$ ternary alloys"
F. El Haj Hassan, and H. Akbarzadeh
Material Science and Engineering B, 121 (2005) 171-178.

- 12) – "High-pressures study of structural and electronic properties of calcium chalcogenides"
Z. Charifi, H. Baaziz, **F. El Haj Hassan** and N. Bouarissa
J. Phys.: Condens. Matter, 17 (2005) 4083-4092
- 13) – "Theoretical analysis of the structural and electronic properties of tellurium"
F. El Haj Hassan, M. Zoeter and A. Hijazi
J. Phys. IV France 124, (2005) 221-227.
- 14) - "First-principles investigation of SnO₂ at high pressure"
F. El Haj Hassan, A. Alaeddine, M. Zoeter and I. Rachidi
Int. J. Mod. Phys. B, 19 (2005) 4081-4092.
- 15) – "Structural and electronic properties of the wide-gap Zn_{1-x}Mg_xS, Zn_{1-x}Mg_xSe and Zn_{1-x}Mg_xTe ternary alloys"
Z. Charifi, **F. El Haj Hassan**, H. Baaziz, Sh. Khosravizadeh, S. J. Hashemifar, and H. Akbarzadeh
J. Phys.: Condens. Matter, 17, (2005) 7077-7088.
- 16) - "Theoretical study of the gap bowing in BN_xSb_{1-x}, BP_xSb_{1-x} and BAs_xSb_{1-x} ternary alloys"
F. El Haj Hassan
Phys. Stat. Sol. (b), 242 (2005) 3129-3137.
- 17) - "Band structure of bcc selenium under high pressure"
F. El Haj Hassan, M. Zoeter and A. Hijazi
Fizika A 14 (2005) 245-254.
- 18) - "Ground state properties and structural phase transition of beryllium chalcogenides"
F. El Haj Hassan, and H. Akbarzadeh
Comput. Mater. Sci. 35 (2006) 423-431.
- 19) - "FP-LAPW investigations of Zn_{1-x}Be_xS, Zn_{1-x}Be_xSe and Zn_{1-x}Be_xTe ternary alloys"
H. Baaziz, Z. Charifi, **F. El Haj Hassan**, S. J. Hashemifar, and H. Akbarzadeh
Phys. Stat. sol. (b), 243 (2006) 1296-1305.
- 20) – "Density functional study of Zn_{1-x}Mg_xSe_yTe_{1-y} Quaternary semiconductor alloys"
F. El Haj Hassan, S. J. Hashemifar, and H. Akbarzadeh
Phys. Rev. B 73 (2006) 195202.
- 21) - "First-principles elastic and bonding properties of barium chalcogenides"
F. El Haj Hassan, and H. Akbarzadeh
Comput. Mater. Sci. 38 (2006) 362-368.
- 22) - "First-principles investigation of wide-gap quaternary alloys Zn_{1-x}Mg_xS_yTe_{1-y}"
F. El Haj Hassan, H. Akbarzadeh
J. alloy. compd. 433 (2007) 306-312.
- 23) – "Structural and electronic properties of Zn_{1-x}Mg_xS_ySe_{1-y} alloys"
F. El Haj Hassan, A. Alaeddine, A. Hijazi and M. Zoeter, B. Beydoun
Mater. Lett. 61 (2007) 1178-1182.

- 24) – "Theoretical study of III–V yttrium compounds"
 B. Amrani, **F. El Haj Hassan**
 Comput. Mater. Sci. 39(2007) 563-568.
- 25) – "*ab initio* investigations of zinc chalcogenides semiconductor alloys"
F. El Haj Hassan, B. Amrani, F. Bahsoun
 Physica B, 391 (2007) 363-370.
- 26) – "Structural, electronic and thermodynamic properties of wide band gap $Mg_xZn_{1-x}O$ alloys"
 B. Amrani, R. Ahmed and **F. El Haj Hassan**
 Comput. Mater. Sci. 40 (2007) 66-72
- 27) – "Computational study of AgCl and AgBr semiconductors"
 T. Benmessabih, B. Amrani, **F. El Haj Hassan**, F. Hamdache and M. Zoeter
 Physica B, 392 (2007) 309-317.
- 28) – "Structural, electronic and thermodynamic properties of magnesium chalcogenides ternary alloys"
F. El Haj Hassan, B. Amrani
 J. Phys.: Condens. Matter, 19 (2007) 386234.
- 29) – "First-principles study of rock-salt $AgCl_xBr_{1-x}$ alloys"
 B. Amrani, **F. El Haj Hassan**, M. Zoeter
 Physica B, 396 (2007) 192-198.
- 30) – "First-principles investigations of ground-and excited-state properties of BeO polymorphs"
 B. Amrani, **F. El Haj Hassan**, and H. Akbarzadeh
 J. Phys.: Condens. Matter. 19 (2007) 436216.
- 31) – "First principles study of structural and electronic properties of $Be_xZn_{1-x}S$ and $Be_xZn_{1-x}Te$ alloys"
 M. Ameri, D. Rached, M. Rabah, **F. El Haj Hassan**, R. Khenata and M. Doui-aici
 Phys. Stat. sol. (b), 245 (2008) 106-113.
- 32) – "Structural, electronic and optical properties of AgI under pressure"
 B. Amrani, Rashid Ahmed, **F. El Haj Hassan** and Ali H. Reshak
 Phys. Lett. A 372 (2008) 2502-2508
- 33) – "Theoretical investigations on KCl_xBr_{1-x} , KCl_xI_{1-x} and KBr_xI_{1-x} : A first-principles study"
 B. Amrani, A. Kazempoor, Sh. Khosravizadeh, **F. El Haj Hassan** and H. Akbarzadeh
 Physica B, 403 (2008) 2773-2779
- 34) – "FP-LAPW investigations of $SrS_{1-x}Se_x$, $SrS_{1-x}Te_x$ and $SrSe_{1-x}Te_x$ ternary alloys"
 S. Labidi, H. Meradji, S. Ghemid, M. Labidi and **F. El Haj Hassan**
 J. Phys.: Condens. Matter 20 (2008) 445213
- 35) – "First principle calculations of structural, electronic, thermodynamic and optical properties of $Pb_{1-x}Ca_xS$, $Pb_{1-x}Ca_xSe$ and $Pb_{1-x}Ca_xTe$ ternary alloys"
 C Sifi, H Meradji, M Slimani, S Labidi, S Ghemid, E B Hanneche and **F El Haj Hassan**
 J. Phys.: Condens. Matter, 21 (2009) 195401.

- 36) – "Influence of Al Dopant on the Optical and Electrical Properties of Zinc Oxide Thin Films Prepared by Spray Pyrolysis"
A. Alaeddine, I. Rachidi, F. Bahsoun, Y. Mohanna, O. Bazzi and **F. El Haj Hassan**
J. appl. Sci. 9 (2009) 1588-1592.
- 37) – "Theoretical study of $Cu_xAg_{1-x}I$ alloys"
B. Amrani, **F. El Haj Hassan**, R. Khenata and H. Akbarzadeh
J. Phys. Chem. Solids 70 (2009) 1055-1061.
- 38) - "First-principles calculations on the origins of the gap bowing in $InAs_{1-x}P_x$ ordered alloy"
A. Breidi, B. Amrani, O. Pagès and **F. El Haj Hassan**
Physica B, 404 (2009) 3435-3439.
- 39) – "First principles investigation of barium chalcogenide ternary alloys
S. Drablia, H. Meradji, S. Ghemid, G. Nouet and **F. El Haj Hassan**"
Comput. Mater. Sci. 46 (2009) 376-382.
- 40) – " *Ab initio* investigations of calcium chalcogenide alloys"
M. Slimani, H. Meradji, C. Sifi, S. Labidi, S. Ghemid, E.B. Hanneche, **F. El Haj Hassan**
J. alloy. compd. 485 (2009) 642-647
- 41) – "Structural, electronic, thermodynamic and optical properties of $SrS_{1-x}O_x$ mixed crystals"
S. Labidi, M. Labidi, H. Meradji, S. Ghemid, **F. El Haj Hassan**
Physica B, 404 (2009) 4100-4105.
- 42) – "First principles calculations of structural, electronic and thermodynamic properties of SrS, SrSe, SrTe compounds and $SrS_{1-x}Se_x$ alloy"
S. Labidi, H. Meradji, M. Labidi, S. Ghemid, S. Drablia and **F. El Haj Hassan**
Phys. Procedia 2, (2009) 1205-1212.
- 43) – "First-principles Study of Structural, Electronic and Optical Properties of $SrS_{1-x}Se_x$ Alloys"
S. Labidi, M. Labidi, H. Meradji, S. Ghemid and **F. El Haj Hassan**
Chinese J. Phys. 48 (2010) 1-12.
- 44) – "Density functional study of $CdS_{1-x}Se_x$ and $CdS_{1-x}Te_x$ alloys "
S. Ouendadji, S. Ghemid, H. Meradji, **F. El Haj Hassan**
Comput. Mater. Sci. 48 (2010) 206-211.
- 45) – "Pressure-induced phonon freezing in the $Zn_{1-x}Be_xSe$ alloy: A study via the percolation model"
G. K. Pradhan, C. Narayana, O. Pagès, A. Breidi, J. Souhabi, A. V. Postnikov, S. K. Deb, F. Firszt, W. Paszkowicz, A. Shukla, and **F. El Haj Hassan**
Phys. Rev. B 81 (2010) 115207.
- 46) – " First-principles study of the ternary semiconductor alloys $(Ga,Al)(As,Sb)$ "
F. El Haj Hassan, A. Breidi, S. Ghemid, B. Amrani, H. Meradji and O. Pagès
J. alloy Compd. 499 (2010) 80-89.
- 47) – " Structural, electronic, optic and thermal properties of $Al_xGa_{1-x}As_ySb_{1-y}$ quaternary alloys: first-principles study "
F. El Haj Hassan, A. V. Postnikov, and O. Pagès

In press, alloy Compd.

- 48) – "Cinnabar and SC16 high-pressure phases of ZnSe: An *ab initio* study "
A. Breidi, A. V. Postnikov, and **F. El Haj Hassan**
Phys. Rev. B 81 (2010) 205213.

Chapters in books

- 1) – “Theoretical study of InAs, InSb and their alloys $\text{InAs}_x\text{Sb}_{1-x}$ ” K. Hachelafi, B. Amrani, **F. El Haj Hassan** and S. Hiadi, Advances in Condensed Matter Physics, 2009: ISBN: 978-81-308-0336-4, Editor: Ali Hussain Reshak, Research Signpost.

Communications

- 1) – «Les propriétés structurales et électroniques de BP vu par la Méthode linéaire des ondes planes augmentées LAPW».
F. El Haj Hassan, A.Zaoui, M. Certier et M. Zoeter (**Poster**)
2nd Science Meeting, 2-4 Nov. 1999, Beirut, Lebanon.
- 2) – «Band-gap bowing in $\text{C}_x(\text{BN})_{1-x}$ alloy»
F. El Haj Hassan, M.Zoeter (**Talk**)
3rd Material Science Meeting Franco-Lebanese (CSM3) 16-18 may 2002 Beirut-Lebanon.
- 3) – « Elaboration et caractérisation de couches minces d’oxyde d’étain SnO_2 pures et dopees pour la détection des polluants gazeux »
A. Alaeddine, I. Rachidi, F Bahsoun, **F El Haj Hassan**, B. Baydoun et M. Zoeter (**Poster**)
4th Material Science Meeting Franco-Lebanese (CSM4) 26-28 may 2004 Beirut-Lebanon
- 4) – «Theoretical analysis of the structural and electronic properties of bcc tellurium under high pressure»
F. El Haj Hassan, M.Zoeter (**Talk**)
4th Material Science Meeting Franco-Lebanese (CSM4) 26-28 may 2004 Beirut-Lebanon.
- 5) – «Theoretical study of $\text{BN}_x\text{P}_{1-x}$, $\text{BN}_x\text{As}_{1-x}$ and $\text{BP}_x\text{As}_{1-x}$ ternary alloys»
F. El Haj Hassan (**Talk**)
School on: Electronic-structure calculations and their applications in materials science ICTP – INFN/Democritos – ISMO - IUT 25 April – 6 May 2005, Isfahan, Iran.
- 6) – International Conference on Density Functional Theory (DFT) and Transmission Electron Microscopy (TEM).
F. El Haj Hassan
2nd CHIRALTEM workshop, April 21- 23 2006, Vienna, Austria.
- 7) – 12th WIEN2K workshop.
F. El Haj Hassan
April 19- 20 2006, Vienna, Austria.
- 8) – « *ab initio* investigations of zinc chalcogenides semiconductor alloys»
F. El Haj Hassan (**Poster**)
5th Material Science Meeting Franco-Lebanese (CSM5) 26-28 may 2006 Beirut-Lebanon.
- 9) – "Structural and electronic properties of the wide-gap $\text{Zn}_{1-x}\text{Mg}_x\text{S}$, $\text{Zn}_{1-x}\text{Mg}_x\text{Se}$ and $\text{Zn}_{1-x}\text{Mg}_x\text{Te}$ ternary alloys".

Z. Charifi, **F. El Haj Hassan**, H. Baaziz (**Poster**)

5th Material Science Meeting Franco-Lebanese (CSM5) 26-28 may 2006 Beirut-Lebanon.

10) – « First-principles investigation of wide-gap quaternary alloys $Zn_{1-x}Mg_xS_yTe_{1-y}$ »

F.El Haj Hassan (Talk)

5th Material Science Meeting Franco-Lebanese (CSM5) 26-28 may 2006 Beirut-Lebanon.

11) – « First *ab initio* investigations of zinc chalcogenides semiconductor alloys »

F.El Haj Hassan (Talk)

The fifth workshop on physics of semiconductor sciences and lasers, 18-20 may 2008 Latakia – Syria.

12) – « Structural and electronic properties of $Zn_{1-x}Mg_xS_ySe_{1-y}$ alloys »

F.El Haj Hassan (Talk)

The fifth workshop on physics of semiconductor sciences and lasers, 18-20 may 2008 Latakia – Syria.

13) – «14th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods»

F. El Haj Hassan

January 8-10 2009, ICTP, Trieste-Italy.

14) – « First principle calculations of structural, electronic, thermodynamic and optical properties of $Pb_{1-x}Ca_xS$, $Pb_{1-x}Ca_xSe$ and $Pb_{1-x}Ca_xTe$ ternary alloys »

F.El Haj Hassan (Talk)

The sixth workshop on physics of semiconductor sciences and lasers, 24-26 may 2009 Latakia – Syria.

15) – « Spring College on Computational Nanoscience »

F. El Haj Hassan

17 May - 28 May, ICTP, Trieste-Italy.