

KRARCHA HADDA

CURRICULUM VITAE

PERSONAL INFORMATION :

FAMILY NAMEKRARCHA

NAME HADDA

Date of birth 21/11/1974 in Batna ALGERIA.

Nationality:Algerian

Family Situation:married

Adresse :Lotticement Bouarif N°87 Parc à Fourrage Batna 05000

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FORMATION and DIPLOMS :

- 1992Baccalauréattechnicmathematic
- 1996Diplôme of high study (D.E.S) Physics, Option : Condensed mater Physics.
Universityof Batna.
- 2002Magister on Physics, Option « Semiconductor physics ». University of Batna.
- 2012-2013 1st inscription Doctorat of Physics « Condensend matter physics.
 - 2022 Doctorat on physics,(structural, electronic,optic, vibrational and thermal properties of transition metal compoudns) LPG laboratory university of Guelma, Algeria

PROFESSIONAL EXPERIENCIES:

Educational teaching:

2004-2010:Assistant of physics “ Faculty of sciences, department of physics, university of Batna.

2011-2022 :assistant of physics “ mechanic and electricity”,Institute of earth sciences and univers, university of Batna2.

SCIENTIFIC ACTIVITES :

- Member on PRIMALB laboratory , Department of Physics ,Faculty of materials sciences, University Batna1. Algeria

- Member on laboratory of Physics Guelma, LPG, University 8mai 1945 Guelma , Algeria

INFORMATIC COMPETENCES :

Windows, Unix (susse 10.2, Ubuntu), Fortran, xmgrace, origin, microstword, Latex.Vesta

Abinitio calculations : VASP , ABINIT,vesta, Gibbs sofwar.

Publications :

- 1-H. Krarcha, A. Belgacembouzida / Physics Procedia 2 (2009) 927–932,” Heats of formation of Zirconium binary transition metal alloys”.
- 2-H. Krarcha, A.Ferroudj, S. Messaasdi,”Enthalpies of formation of equiatomic binary Hafnium transition metal compounds HfM (M=Co, Ir, Os, Pt, Rh, Ru)”. Solid State Phenomena, Vol. 257, pp. 38-42, 2017
- 3- H. Krarcha and B. Bennecer, “Theoretical study of the structural, elastic, vibrational and thermal properties of perovskite halides cs_2tibr_6-x ($x= 0, 2, 4, 6$),” *Computational Condensed Matter*, vol. 29, p. e00587, 2021.

Conference Activities :

- 1- 1-H.Krarcha, B. Benncer, S. Krfaf, “*Elastic properties of perovskites $AHfO_3$ ($A=Ba, Ca, Pb$ and Sr) from First principles calculations*”.SCTE 2016, 20th international Conference on Solid Compounds of Transition Elements, April 11th- 15th2016 Zaragoza, Spain.
- 2- H.Krarcha,”MAIL PARAMETERS PREDICTION OF ABO_3 CUBIC OXIDE PEROVSKITES”.3rd International Workshop on Thermodynamic of Metallic Alloys "WITAM2017" ,28 -30 novembre 2017 Batna/Algeria
- 3- 3-H.krarcha, B.Bennacer, karfaf“*Investigation of structural, elastic, mechanic and thermodynamic propreties of $KI-xNaxFeF_3$ ($x=0,0.25, 0.5, 0.75$) alloy:anab-initio calculation*”,International Conference on Solid Compounds of Transition Elements, SCTE’2018, Vienna (Austria) from March 25 to 29, 2018,
- 4- H.KRARCHA, F.HAMIZI “*Revisesd Jiangmodel’s « New formula of Prediction of lattice constant in cubic perovskites »*.the 31st European Crystallographic Meeting, next August 22-27, 2018, in the city of Oviedo, Asturias, Spain
- 5-H.KRARCHA, B.BENNACER “,”*Investigation of structural, elastic, mechanic and thermodynamic propreties of transition metal iodid perovskites Cs_2MI_6 ($M=Hf, Pt$ and Pd)* ”, the 5th edition of the International Conference on

Advanced Materials Modelling (ICAMM 2019), June 26 to July 6 2019. Rennes , France.

5- H.KRARCHA “**Influence of d-electron configuration on phase transitions in a_2mx_6 perovskites**”, 13ème JMSM2020, 9-11 March 2020, Oran, Algeria.

Research Interests

- Phase diagram, abinitio calculation of physical properties of transition metal alloys.
- Prediction of new perovskite for photovoltaic application.