

Ali HENDAOUI (PhD)

Materials Science

Alfaisal University
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PROFESSIONAL AND RESEARCH EXPERIENCE

- **Vice Dean for Academic and Student Affairs** 2017/1 – to date
College of Science and General Studies, Alfaisal University, KSA
- **Chair of the Department of Physics** 2015/8 – to date
College of Science and General Studies, Alfaisal University, KSA
- **Assistant Professor of Physics** 2015/6 – to date
College of Science and General Studies, Alfaisal University, KSA
- **Research Associate** 2014/7 – 2015/6
Institut National de la Recherche Scientifique (INRS), Canada.
 - Development of Smart Materials Thin Films and Devices using Plasma Processes.
 - Development of Advanced Nano-Composites by Atmospheric Pressure Plasmas.
- **Postdoctoral Fellow** 2011 –6/2014
Institut National de la Recherche Scientifique (INRS), Canada.
 - Vanadium dioxide-based smart coatings and devices.
- **Research Fellow** 2010 – 2011
Institut National de la Recherche Scientifique (INRS), Canada.
 - Optimization of undoped and tungsten-doped vanadium dioxide films for space applications.
- **Visiting Researcher** 2008 – 2009
LIMHP Research Center, France.
 - Synthesis of high purity Ti_2AlC and Ti_3AlC_2 MAX phases with novel powder metallurgy processes (Ball Milling/SHS).
- **Research Intern** 2005 – 2008
LIMHP Research Center, France.
 - Development of new powder metallurgy processes to synthesize high purity MAX phases in the Ti-Al-C system based on exothermic reactions.

EDUCATION

- **PhD degree in Process Engineering** 2005 - 2008
Sorbonne Paris Nord University (former University of Paris 13 (France))
“The SHS, MASHS and ETEPC processes optimization to obtain MAX phases (powders and dense materials) in the Ti-Al-C system.”
- **Master’s degree in physics.** Option: Materials Science 2001 - 2004
University of Badji Mokhtar (Algeria)
“Synthesis of nanodense titanium carbide by thermal explosion.”
- **Bachelor’s degree in Solid State Physics** 1997 - 2001
University of 8 May 1945 (Algeria)

AWARDS & FELLOWSHIPS

- **06/2014:** Prize of the best postdoctoral fellow talk (Plasma Quebec 2014 symposium, Montreal, Canada)
- **07/2011 – 06/2013:** “FQRNT” Postdoctoral fellowship (Canada)
- **05/2012:** Prize of the best poster (Plasma Quebec symposium 2012, Montreal, Canada)
- **09/2005 – 07/2008:** “Agence Universitaire de la Francophonie” Doctoral scholarship (France)

LANGUAGES: Perfectly trilingual (English, French and Arabic).

PATENTS

A. Hendaoui, M. Chaker, E. Haddad, “Passively variable emittance device and method for making the same”, 2021, CA2833862 (**March 2021**)

A. Hendaoui, M. Chaker, E. Haddad, “Passively variable emittance device and method for making the same”, 2014, US 8,908,253 B2 (**December 2014**)

ARTICLES

J28. A. Hendaoui, A. Alshammari. Preparation of Nitrogen-doped Holey Multilayer Graphene Using High-Energy Ball Milling of Graphite in Presence of Melamine. *Materials*, 16 (2023) 219.

J27. A. Hendaoui. Low Solar Absorptance, High Emittance Performance Thermochromic VO₂-Based Smart Radiator Device. *Nanomaterials*, 12 (2022) 4422.

J26. A. Hendaoui, Substrate Temperature-Dependent Structural, Optical, and Electrical Properties of Thermochromic VO₂(M) Nanostructured Films Grown by a One-Step Pulsed Laser Deposition Process on Smooth Quartz Substrates, *Advances in Condensed Matter Physics*, (2021) Article ID 7700676

J25. H Ouacha, **A Hendaoui**, U Kleineberg, H Albrithen and A Azzeer. Controlled synthesis and photoluminescence properties of In₂O₃ rods with dodecahedron In₂O₃ microcrystals on top, *Physica Status Solidi (a)*, 214 (2017) 1700050

J24. Nicolas Émond, **Ali Hendaoui**, Sébastien Delprat, Mohamed Chaker, Ke Wu. Theoretical and Experimental Investigation of Thermo-Tunable Metal–Insulator–

Vanadium Dioxide Coplanar Waveguide Structure, *IEEE Transactions on Microwave Theory and Techniques*, 65 (2017) 1443-1455

- J23. Nicolas Émond, Akram Ibrahim, Badr Torriss, **Ali Hendaoui**, Ibraheem Al-Naib, Tsuneyuki Ozaki, Mohamed Chaker, Impact of tungsten doping on the dynamics of the photo-induced insulator-metal phase transition in VO₂ thin film investigated by optical pump-terahertz probe spectroscopy, *Applied Physics Letters*, 111 (2017) 092105
- J22. N. Émond, **A. Hendaoui**, A. Ibrahim, I. Al-Naib, T. Ozaki, M. Chaker, Transmission of reactive pulsed laser deposited VO₂ films in the THz domain, *Applied Surface Science*, 379 (2016) 377–383
- J21. R. Rincón **A. Hendaoui**, J. de Matos, and M. Chaker, Synthesis of flat sticky hydrophobic carbon diamond-like films using atmospheric pressure Ar/CH₄ dielectric barrier discharge, *Journal of Applied Physics* 119 (2016) 223303
- J20. N. Émond, **A. Hendaoui**, M. Chaker, Low resistivity W_xV_{1-x}O₂-based multilayer structure with high temperature coefficient of resistance for microbolometer applications, *Appl. Phys. Lett.*, 2015, 107, 143507 (5 pp.)
- J19. V.R. Morrison, R.P. Chatelain, K.L. Tiwari, **A. Hendaoui**, A. Bruhacs, M. Chaker, B.J. Siwick, A photoinduced metal-like phase of monoclinic vanadium dioxide, *Science*, 346 (2014) 445-448
- J18. **A. Hendaoui**, N. Émond, S. Dorval, M. Chaker and E. Haddad, “VO₂-based smart coatings with improved emittance-switching properties for an energy-efficient near room-temperature thermal control of spacecrafts”, *Solar Energy Materials and Solar Cells*, 117 (2013) 494–498
- J17. **A. Hendaoui**, N. Émond, M. Chaker, and É. Haddad, “Highly tunable-emittance radiator based on semiconductor-metal transition of VO₂ thin films”, *Appl. Phys. Lett.*, 2013, Vol. 102, 061107 (4 pp.)
- J16. **A. Hendaoui**, N. Émond, S. Dorval, M. Chaker and E. Haddad, “Enhancement of the positive emittance-switching performance of thermochromic VO₂ films deposited on Al substrate for an efficient passive thermal control of spacecrafts”, *Current Applied Physics*, 2013, Vol. 13, pp. 875- 879
- J15. P. Anh Do, **A. Hendaoui**, E. Mortazy, M. Chaker, A. Haché, “Vanadium dioxide spatial light modulator for applications beyond 1200 nm”, *Optics Communications*, 2013, Vol. 288, pp. 23–26
- J14. A. Hache, B. Abdel Samad, M. Chaker, **A. Hendaoui**, and S. Vigne, "Electro-optic Switching of VO₂ for Infrared Spatial Light Modulation", in Conference on Lasers and Electro-Optics (CLEO), San Jose, California, United States _ June 9-14, 2013, OSA Technical Digest (online) (Optical Society of America, 2013), paper JW2A.56.
- J13. M. Andasmas, D. Vrel, N. Fagnon, T. Chauveau, **A. Hendaoui**, P. Langlois, “Phenomenological study of the densification behavior of Aluminum-Nickel powder mixtures during cold isostatic pressing and differential hydrostatic extrusion”, *Powder Technology*, 2011, Vol. 207, No. 1-3, pp. 304-310
- J12. **A. Hendaoui**, D. Vrel, A. Amara, P. Langlois, M. Andasmas, M. Guerioune, “Processing of high-purity polycrystalline MAX phases in the Ti-Al-C system by Mechanically Activated Self-propagating High-temperature Synthesis”, *Journal of the European Ceramic Society*, 2010, Vol. 30, No. 4, pp. 1049-1057

- J11.** M. Andasmas, D. Vrel, N. Fagnon, T. Chauveau, **A. Hendaoui**, P. Langlois, “Extrusion-activated thermal explosion applied to intermetallics processing”, *High Pressure Research*, 2009, Vol. 29, No 4, pp. 625 – 629
- J10.** **A. Hendaoui**, D. Vrel, A. Amara, P. Langlois, M. Guérioune, “A Novel Method for Synthesis of Low-Cost Ti-Al-C-Based Cermets”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2009, Vol. 18, No. 4, pp. 267–272.
- J9.** **A. Hendaoui**, D. Vrel , A. Amara, N. Fagnon, P. Langlois , M. Guérioune, “One Step Synthesis and Densification Of Ti-Al-C-based Cermets By ETEPC”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2009, Vol. 18, No. 4, pp. 263–266.
- J8.** A. M. Stolin, D. Vrel, S. N. Galyshev, **A. Hendaoui**, P. M. Bazhin, and A. E. Sytshev, “Hot Forging of MAX Compounds SHS-Produced in the Ti–Al–C System”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2009, Vol. 18, No. 4, pp. 194–199.
- J7.** **A. Hendaoui**, M. Andasmas, A. Amara, A. Benaldjia, P. Langlois, and D. Vrel, “Synthesis of High-Purity MAX Compounds by SHS in the Ti-Al-C System”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2008, Vol. 17, No. 2, pp. 129–135.
- J6.** **A. Hendaoui**, D. Vrel, A. Amara, A. Benaldjia, and P. Langlois, “Ti–Al–C MAX Phases by Aluminothermic Reduction Process”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2008, Vol. 17, No. 2, pp. 125–128
- J5.** D. Vrel, **A. Hendaoui**, P. Langlois, S. Dubois, V. Gauthier, and B. Cochapin, “SHS Reactions in the NiO–Al System: Influence of Stoichiometry”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2007, Vol. 16, No. 2, pp. 62–69.
- J4.** W. Ramdane, B. Bendjemil, A. Hafs, **A. Hendaoui**, M. Guerioune, and D. Vrel, “Structural Characterization and Superconducting Properties of MgB₂ Prepared by SHS-Method”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2007, vol. 16, No. 4, pp. 207-212.
- J3.** A. Amara, W. Rezaiki, A. Ferdi, **A. Hendaoui**, A. Drici, M. Guerioune, J.C. Bernède and M. Morsli, “Electrical and optical characterisation of CuInS₂ crystals and polycrystalline coevaporated thin films”, *Solar Energy Materials and Solar Cells*, 2007, vol. 91, pp. 1916-1921
- J2.** A. Amara, W. Rezaiki, A. Ferdi, **A. Hendaoui**, A. Drici, M. Guerioune, J.C. Bernède and M. Morsli, Electrical properties of CuGaSe₂ single crystals and polycrystalline coevaporated thin films, *Physica Status Solidi (A) Applications and Materials*, 2007, vol. 204, pp. 1138-1146
- J1.** M. Ali-Rachedi, **A. Hendaoui**, D. Vrel, W. Bounour, A. Amara and M. Guerioune, “Synthesis of dense TiC-based cermets by electro-thermal explosion under pressure with confinement”, *International Journal of Self-Propagating High-Temperature Synthesis*, 2006, Vol. 15, No 4, pp.308-313.

BOOK CHAPTER

- B1.** D. Vrel, **A. Hendaoui** and M. Andasmas, “Synthesis of Ti-Al-C MAX phases by aluminothermic reduction process”, in “M_{n+1}AX_n Phases: Microstructure, Properties and Applications”, Nova Science Publishers, 2012, ISBN: 978-1-61324-182-0, pp. 29-52.

CONFERENCE PRESENTATIONS

- C47.** N. Émond, **A. Hendaoui** and M. Chaker, A “smart” material for “smart” applications, capitalizing on tunable phase transition characteristics of vanadium dioxide thin films, Plasma Quebec symposium, Montréal, Québec, Canada _ 01-02 June, 2016
- C46.** J. Chaillou, A. Hendaoui, N. Émond, B. LeDrogoff, É. Haddad and M. Chaker, VO₂ based light-weight tunable radiator for space applications, Plasma Quebec symposium, Montréal, Québec, Canada _ 01-02 June, 2016
- C45.** N. Émond, **A. Hendaoui**, E. Haddad and M. Chaker, “Low resistivity W_xV_{1-x}O₂-based multilayer structure with enhanced temperature coefficient of resistance features for microbolometer applications”, Plasma Quebec symposium, Montréal, Québec, Canada _ 03-05 June, 2015
- C44.** R. Rincón, P. Brunet, **A. Hendaoui**, J. Matos, F. Massines et M. Chaker, “Study of plasma kinetics for the deposition of hydrogenated carbon films by Atmospheric Pressure Dielectric Barrier Discharge”, Plasma Quebec symposium, Montréal, Québec, Canada _ 03-05 June, 2015
- C43.** Kunal Tiwari , Vance Morrison , Robert Chatelain , **Ali Hendaoui** , Andrew Bruhacs , Mohamed Chaker , Bradley Siwick , “Photoinduced phase transitions in vanadium dioxide revealed by ultrafast electron diffraction and mid-infrared spectroscopy”, APS March Meeting 2015, Volume 60, Number 1,; San Antonio, Texas, March 2–6, 2015
- C42.** **A. Hendaoui**, N. Émond and M. Chaker, “From “smart” Material to “smart” Devices: Novel Applications based on the Insulator-to-Metal Transition in VO₂”, 8th Energy, Materials, and Nanotechnology (EMN) Meeting, November 22 – 25, 2014 (Invited).
- C41.** **A. Hendaoui**, N. Émond, M. Chaker and E. Haddad, “VO₂-based variable-emittance coatings: An important progress towards energy-efficient smart radiators for nano-satellites”, Plasma Quebec symposium, Montréal, Québec, Canada _ 04-06 June, 2014.
- C40.** R. Rincon, P. Brunet, **A. Hendaoui** and M. Chaker, “ OES investigation of inorganic SiO₂ deposition by means of N₂ AP-DBD plasmas using TEOS as a precursor”, Plasma Quebec symposium, Montréal, Québec, Canada _ 04-06 June, 2014.
- C39.** P. Brunet, J.B. de Matos, R. Rincon Lievana, **A. Hendaoui**, M. Chaker and F. Massines, “Étude du transport de nanoparticules dans un plasma à pression atmosphérique pour la réalisation de couches minces nanocomposites”, Plasma Quebec symposium, Montréal, Québec, Canada _ 04-06 June, 2014.
- C38.** N. Émond, **A. Hendaoui**, M. Chaker, “Influence des paramètres de dépôt de couches minces de VO₂ par ablation laser sur leur modulation dans le domaine THz”, Plasma Quebec symposium, Montréal, Québec, Canada _ 04-06 June, 2014.
- C37.** **A. Hendaoui** and M. Chaker, “Vanadium dioxide: a “smart” material for “smart” technological opportunities”, The 38th International Conference and Exposition on Advanced Ceramics and Composites (38th ICACC), Daytona Beach, Florida, January 26 - 31, 2014 (Invited).
- C36.** **A. Hendaoui**, N. Émond, S. Dorval, M. Chaker, É. Haddad, “Highly tunable-emittance VO₂-based smart coatings for a passive thermal control of small satellites”,

Conference: Materials Science & Technology 2013, Symposium: Advanced Materials, Processes and Evaluation Methods for Aerospace and Defense Applications, Montréal, Québec, Canada _ October 27-31, 2013.

- C35.** N. Émond, **A. Hendaoui**, M. Chaker, “Optimization of VO₂ metal-to-insulator transition properties for THz applications”, Conference: Materials Science & Technology 2013, Symposium: Synthesis and Structural and Functional Characterization of Thin Films and Self-assembled Nanostructures, Montréal, Québec, Canada _ October 27-31, 2013.
- C34.** **A. Hendaoui**, N. Émond, S. Dorval, M. Chaker, É. Haddad, “Highly tunable-emittance VO₂-based smart coatings for a passive thermal control of small satellites”, Plasma Quebec symposium, Montréal, Québec, Canada _ 22-24 May, 2013.
- C33.** N. Émond, **A. Hendaoui**, M. Chaker, “Optimization of VO₂ metal-to-insulator transition properties for THz applications”, Plasma Quebec symposium, Montréal, Québec, Canada _ 22-24 May, 2013.
- C32.** S. Dorval, **A. Hendaoui**, A. Lacoste, M. Chaker, “Synthèse et caractérisation de couches minces de VO₂ par pulvérisation magnétron RF réactive”, Montréal, Québec, Canada _ 22-24 May, 2013
- C31.** B.J. Siwick, R.P. Chatelain, V.R. Morrison, **A. Hendaoui** and M. Chaker, “Structural Dynamics in Vanadium Dioxide and Graphite Studied with Radio-Frequency Compressed Ultrafast Electron Diffraction”, The 3rd Banff Meeting on Structural Dynamics Ultrafast Dynamics with X-Rays and Electrons, The Banff Centre, Banff, Alberta, Canada_ 17-20 February, 2013
- C30.** E. Haddad, **A. Hendaoui**, M. Chaker , M. BenKahoul, R. Kruzelecky, W. Jamroz, P. Poinas, “Large Tuneability IR Emittance Thermal Control Coating for Space Applications”, 12th International Symposium in Materials in the Space Environment, ESA/ESTEC, Noordwijk, The Netherlands_24-28 September, 2012.
- C29.** N. Émond, **A. Hendaoui**, M. Chaker, É. Haddad, “Fabrication of VO₂-Based smart radiators”, Plasma Quebec symposium, Montréal, Québec, Canada _ 29-31 May, 2012.
- C28.** E. Haddad, M. BenKahoul, R. Kruzelecky, B. Wong, W. Jamroz, M. Soltani, **A. Hendaoui**, M. Chaker and P. Poinas, “Monitoring Thermo-optical Properties of Multilayer Tuneable Emittance Coatings, for Smart Thermal Control in Space Applications”, 41st International Conference on Environmental Systems, Portland, Oregon, USA_17-21 July, 2011
- C27.** **A. Hendaoui**, M. Benkahoul, É. Haddad, M. Chaker, “Fabrication d'un Radiateur Intelligent Passif à base de couches sensibles de VO₂-Dopé par des métaux de transition pour les applications dans le domaine de l'aérospatial”, Plasma Quebec symposium, Montréal, Québec, Canada _ 25-27 May, 2011.
- C26.** N. Émond, **A. Hendaoui**, M. Chaker, “characterisation de couches minces de VO₂ déposées par ablation laser”, Plasma Quebec symposium, Montréal, Québec, Canada _ 25-27 May, 2011.
- C25.** M. Andasmas, D. Vrel, N. Fagnon, T. Chauveau, **A. Hendaoui**, P. Langlois, “Extrusion-activated thermal explosion applied to intermetallics processing”, The European High Pressure Research Group Meetings, 06-11 September, 2009.
- C24.** **A. Hendaoui**, D. Vrel , A. Amara, N. Fagnon, P. Langlois , M. Guérioune , “Novel Method to Synthesise Low-Cost Ti-Al-C MAX Phases-Based Cermets”, X International Symposium on Self-propagating High-temperature Synthesis, Tsakhkadzor, Armenia _ 6-11 July, 2009.

- C23.** A. Hendaoui, D. Vrel, A. Amara, N. Fagnon, P. Langlois, M. Guérioune, “One Step Synthesis and Densification Of Ti-Al-C MAX Phases-based Cermets By ETEPC”, X International Symposium on Self-propagating High-temperature Synthesis, Tsakhkadzor, Armenia _ 6-11 July, 2009.
- C22.** M. Andasmas, Th. Chauveau, P. Langlois, A. Hendaoui, N. Fagnon, N. Girodon-Boulandet, D. Vrel, “Synthesis of NiAl by extrusion activated thermal explosion (EATE)”, X International Symposium on Self-propagating High-temperature Synthesis, Tsakhkadzor, Armenia _ 6-11 July, 2009.
- C21.** A. Hendaoui, D. Vrel, A. Amara, P. Langlois, M. Guerioune, “TiAl_{1-a}C_a System Study With MASHS (a = 0.1, 0.5 and 0.9)”, IX International Symposium on Self-propagating High-temperature Synthesis, Dijon, France _ 1-5 July, 2007
- C20.** D. Vrel, A. Hendaoui, P. Langlois, S. Dubois, V. Gauthier, B. Cochevin, “SHS Reactions in the NiO-Al System: Time-Resolved X-Ray Diffraction in some Complex Systems”, IX International Symposium on Self-propagating High-temperature Synthesis, Dijon, France _ 1-5 July, 2007.
- C19.** D. Vrel, A. Hendaoui, P. Langlois, S. Dubois, V. Gauthier, B. Cochevin, “SHS Reactions in the NiO-Al System: Influence of Stoichiometry”, IX International Symposium on Self-propagating High-temperature Synthesis, Dijon, France _ July 1-5, 2007.
- C18.** A. Hendaoui, A. Amara, A. Benaldjia, M. Ali-Rachedi, M. Guerioune, D. Vrel, P. Langlois, “Nouvelle technique pour la synthèse et la densification de matériaux à grains fins (application au TiC), INCONA 2005 (1st International Conference on Nanomaterials and Applications)”, Annaba, Algeria _ 19-21 November 2005.
- C17.** W. Ramdane, B. Bendjemil, A. Hendaoui, M. Ali-Rachedi, A. Benaldjia, M. Guerioune, D. Vrel, P. Langlois, “Nanomaterials synthesis by combustion method, INCONA 2005 (1st International Conference on Nanomaterials and Applications)”, Annaba, Algeria _ 19-21 November 2005.
- C16.** A. Amara, A. Hendaoui, A. Drici, M. Guerioune, “Electrical properties of CuGaSe₂ single crystals and polycrystalline coevaporated thin films, Thin Film and Nano-structured Materials for Photovoltaics (THINC-PV2)”, E-MRS 2005 Spring Meeting, May 31 – June 3, 2005
- W. Bounour, O. Guellati, W. Ramdane, A. Hendaoui, A. Benaldjia, B. Boudour, M. Guerioune D. Vrel et P. Langlois, “Etude du système TiCx – Ni synthétisé par la méthode SHS, Conférence Internationale sur les Revêtements Protecteurs (CIRP - 04)”; Abstracts Book, Blida, Algeria _ 09-11 October 2004. **C15**
- O. Guellati, W Bounour, W. Ramdane, A. Hendaoui, A. Benaldjia, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Synthèse par combustion auto-propagée et caractérisation de cermets : carbure de titane”, 3ème Congrès international en Sciences et Génie des Matériaux, (CISGM3 _3rd ICMSE), Jijel, Algeria _ 25-27 May 2004. **C14**
- C13.** W. Ramdane, W. Bounour, A. Hendaoui, O. Guellati, A. Benaldjia, M. Guerioune, D. Vrel, P. Langlois, “Synthèse et caractérisation de matériaux composites : l'exemple du TiC-Ni-Al₂O₃, 3^{ème} Congrès international en Sciences et Génie des Matériaux, (CISGM3 _3rd ICMSE)”, Algeria _ 25-27 May 2004.

- C12.** O. Guellati, W. Bounour, W. Ramdane, **A. Hendaoui**, A. Benaldjia, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Synthèse de céramiques par la technique SHS, IXème Journées Maghrébines des Sciences des Matériaux, Oran, Algeria _ 8-10 May 2004.
- C11.** O. Guellati, W. Bounour, W. Ramdane, **A. Hendaoui**, A. Benaldjia, M. Guerioune, D. Vrel, P. Langlois, “Effet de l'Al sur la synthèse de TiC par auto-combustion (SHS)”, The First International Conference on Molecular and Crystal Dynamics and Physical Properties of solids, Monastir, Tunisia _ 25-27 March 2004.
- C10.** O. Guellati, W. Bounour, W. Ramdane, **A. Hendaoui**, A. Benaldjia, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Nouvelle méthode de synthèse des matériaux avancés : application au TiC”, 4ème Journées de Mécanique JM-EMP 2004, Bordj El-bahri, Algeria _ 23-24 March 2004.
- C9.** O. Guellati, M. Ali-Rachedi, W. Bounour, W. Ramdane, **A. Hendaoui**, A. Benaldjia, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Elaboration et caractérisation des intermétalliques”, International Congress on Photovoltaic and Wind Energies, Tlemcen, Algérie _ 20-22 December 2003.
- C8.** W. Bounour, M. Ali-Rachedi, A. Boudour, W. Ramdane, **A. Hendaoui**, A. Benaldjia, O. Guellati, M. Guerioune, D. Vrel, P. Langlois, “Etude du composé intermétallique FeAl synthétisé par la méthode SHS”, International Congress on Photovoltaic and Wind Energies, Tlemcen, Algérie _ 20-22 December 2003.
- C7.** W. Ramdane, W. Bounour, **A. Hendaoui**, O. Guellati, A. Benaldjia, M. Ali-Rachedi, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Densification et caractérisation des matériaux cermets par SHS”, International Congress on Photovoltaic and Wind Energies, Tlemcen, Algérie _ 20-22 December 2003.
- C6.** W. Ramdane, W. Bounour, **A. Hendaoui**, O. Guellati, M. Guerioune, D. Vrel, “Effet de la stoechiométrie et de la granulométrie sur l'élaboration de matériaux cermets par SHS”, Journées Scientifiques et techniques (JST'2003), Skikda, Algeria _ 6-7 December 2003.
- C5.** W. Ramdane, W. Bounour, **A. Hendaoui**, O. Guellati, A. Benaldjia, M. Ali-Rachedi, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Elaboration et densification des matériaux cermets à granulométrie fine par la méthode SHS”, Journées d'Etudes sur les Matériaux (JEM2003), Sidibel-Abbes, Algeria _ 19-20 October 2003.
- C4.** W. Bounour, O. Guellati, W. Ramdane, **A. Hendaoui**, A. Benaldjia, A. Boudour, M. Ali-Rachedi, M. Guerioune, D. Vrel, P. Langlois, “Nouvelle méthode de synthèse à haute température par auto-combustion”, Journées d'Etudes sur les Matériaux (JEM2003), Sidibel-Abbes, Algeria _ 19-20 October 2003.
- C3.** **A. Hendaoui**, W. Bounour, W. Ramdane, O. Guellati, A. Boudour, A. Benaldjia, M. Guerioune, D. Vrel, P. Langlois, “Synthèse de cermets nanodenses par explosion thermique ; application au TiC”, Premier séminaire National sur les Polymères et les Matériaux Minéraux, Bejaia, Algeria _ 10-11 September 2003.
- C2.** O. Guellati, W. Bounour, M. Ali-Rachedi, W. Ramdane, **A. Hendaoui**, A. Benaldjia, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Synthèse par auto-combustion à haute température”, Premier séminaire National sur les Polymères et les Matériaux Minéraux, Bejaia, Algeria _ 10-11 September 2003.
- C1.** W. Bounour, O. Guellati, W. Ramdane, **A. Hendaoui**, A. Benaldjia, A. Boudour, M. Guerioune, D. Vrel, P. Langlois, “Effet de l'ajout de nickel sur la densification des

matériaux cermets”, Premier séminaire National sur les Polymères et les Matériaux Minéraux, Bejaia, Algeria _ 10-11 September 2003.