**CURRICULUM VITAE**

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| **Informations générales** |  |  |
| Nom et prénom |  | **Khemakhem Hamadi** |
| City |  | Sfax |
| Grade |  | Professeur |
| Spécialité |  | Physique |
| Etablissement |  | Faculté des Sciences de Sfax |
| Ministère |  | Enseignement Supérieur et de la Recherche |
| Fonction administrative actuelle |  | Doyen de la Faculté des Sciences de Sfax  |
| Fonction scientifique actuelle |  | Directeur du Laboratoire des Matériaux Multifonctionnels et Applications |
| Adresse |  | Faculté des Sciences de Sfax, BP. 1171, 3000, Sfax, Tunisie |
| Téléphone(s) |  | +21674274390 |
| E-Mail |  | Hamadi.khemakhem@fss.usf.tn  |
| Maîtrises linguistiques |  | Arabe, ExcellentFrançais, ExcellentAnglais, Bon |
| **TITRE ET Cursus Universitaires** |  | **[NOM DE L’ORGANISME][Dates De – À]**Faculté des Sciences de Sfax, de 2005-Jusquà présent, ProfesseurFaculté des Sciences de Sfax, de 2000- 2005, Habilitation Universitaire, Maitre de ConférencesFaculté des Sciences de Sfax, de 1997- 2000, Thèse, Maitre AssistantFaculté des Sciences de Sfax, de 1996- 1997, Assistant |
| **responsabilites administratives** |  | **Fonction, Organisme, Période:**Vice Doyen, Faculté des Sciences de Sfax, 2002-2008Vice Doyen, Faculté des Sciences de Sfax, 2014-2017Doyen, Faculté des Sciences de Sfax, 2018-2021 |
| **Activités Pedagogiques** |  | Enseignement : Sections et disciplinesElectrostatique et Magnétostatique : MI1, PC1, LFPC1 et LFP1 ; Discipline PhysiqueMécanique : PC1, LFPC1, LFP1; Discipline PhysiqueOptique : LFP1; Discipline PhysiqueThermodynamique : LFP1; Discipline PhysiqueElectromagnétisme : MI2, PC2, LFPC2; Discipline PhysiquePropriété de la Matière : LFP3; Discipline PhysiquePhysique des Diélectrique : Master 1 Physique des Matériaux; Discipline PhysiqueTransition des phases : Master 2 Physique des Matériaux; Discipline Physique |
|  |  |
| **Activités de Recherche**  |  | Publications impactées, Publications indexées, Publications nationales, Ouvrages édités, Chapitre d'ouvrage, Edition nationale, Edition Internationale : Responsabilités scientifiques, H-index (Scopus), documents publiés, nombre de citations : Membre du Conseil scientifique de 2002 Jusqu’à présentPrésident de la commission PAQ de 2005 – 2008 et de 2018 jusqu’à présentPrésident des commissions de thèses de 2002 à 2008Coordinateur du mastère de physique des Matériaux de 2011 à 2014Directeur du Laboratoire des Matériaux Multifonctionnels et Applications (LaMMA) de 2016 – jusqu’à présentH-index (Scopus) = **24**Nombre de publications = **181**Nombre de Citation = **1813** |
| **Rayonnement** |

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| --- | --- |
| **RECHERCHE -DEVELOPPEMEnT ET PARTENARIAT avec l’Industrie** | Ouverture sur le milieu socio-économique, projets Recherche -Développement, Transfert technologique, Valorisation de la recherche, **Brevets**, **Prototypes**, **Obtentions végétales**, veille scientifique, Réseau de recherche et innovation, PRF, coopération régionale avec les entreprises : -En tant que Doyen, j’ai présidé les journées portes ouvertes de la Faculté des Sciences de Sfax. Nous avons effectué plusieurs réunions de travail entre universitaires de la faculté et industriels pour voir les possibilités de coopérations et de valorisation des travaux de recherche.-Je suis membre du réseau méditerranéen de recherche sur les matériaux pour l’Electronique MeM.-Je suis Membre du bureau de la Conférence Internationale des Responsables des Universités et Institutions à dominante Scientifique et technique d’Expression Française (**CIRUISEF**)  |
| **PROJETS DE RECHERCHE REALISES** | Projets Nationaux, Projets Bilatéraux et Projets Internationaux réalisés ou en cours (liste en annexes) :**-CMCU, code : 08G1125 (2008-2011)** avec Monsieur Mario MAGLIONE, directeur de recherche à l’Institut de Chimie de la Matière Condensée de Bordeaux (I.C.M.C.B.), France.***Titre du projet* :**« Nouveaux matériaux piézoélectriques sans plomb pour couches épaisses ».**-CMPTM** **, code : 08/TM 94** (**2008-2010)** avec Monsieur Daoud MEZZANE directeur du Laboratoire de la Matière Condensée et Nano structures (LMCN) de la Faculté des Science et Techniques de Marrakech, Maroc. ***Titre du projet*:**«Une nouvelle famille de Matériaux avancés pour la Nanotechnologie et la Microélectronique ».**-PHC-MAGHREB(2012-2014)** avec Monsieur Mimoun EL MARSSI directeur du Laboratoire de Physique de la Matière Condensée, Université de Picardie Jules Verne Amiens, France, avec Monsieur Daoud MEZZANE directeur du laboratoire de la Matière Condensée et Nano structures (LMCN) de la Faculté des Science et Techniques de Marrakech, Maroc et avec Monsieur Abdelrahmen KADRI directeur du Laboratoire d'Etudes des Matériaux Optoélectroniques et Polymères (LEMOP), université d’Oran, Algérie.***Titre du projet*** « Etude des effets électro-calorique et pyroélectrique dans les matériaux ferroélectriques et relaxeurs pour la récupération d’énergie et la réfrigération des composants électroniques ». |
| **activites d’interet collectif** |  |
| ORGANISATION DE MANIFSTATIONS SCIENTIFIQUES | 1) International Meetings on Materials for Electronic Applications (IMMEA 2007) à Marrakech, 2) International Meetings on Materials for Electronic Applications (IMMEA 2009) à Hammamet, 3) International Meetings on Materials for Electronic Applications (IMMEA 2011) à Marrakech, 4) International Meetings on Materials for Electronic Applications (IMMEA 2013) à Sousse, 5) International Meetings on Materials for Electronic Applications (IMMEA 2015) à Marrakech6) Première école de Raman Franco-maghrébine de Spectroscopie Raman Sousse 20127) Première école de Raman Franco-maghrébine de Spectroscopie Raman Sousse 20148)Deuxième colloque “Nanomatériaux : Microstructure et Propriétés” TRAMP-2017, "NANOMATÉRIAUX : MICROSTRUCTURE ET PROPRIÉTÉS" Hammamet, 22 - 24 Mars 2017.9) Quatrième Journées Franco-Maghrébines sur la Spectroscopie Vibrationnelle Infrarouge et Raman (JFMSV-2018) Hammamet, 19-21 Novembre 2018.10) Formation des doyens francophones experts des évaluations en Sciences et Technologies, du 8 au 12 avril 2019, Hammamet-Tunisie |
| EXPERTISES ET CONSEILS | Domaine d’expertise : 4 mots clés (Joindre liste en annexe) |
| COMITES SCIENTIFQUES | Joindre liste en annexe |
| ASSOCIATIONS SCIENTIFIQUES | Joindre liste en annexe |
| Autres Activités | Joindre liste en annexe |
| **distinctions** |  | Cliquez ici pour entrer du texte. |
| Prix  | Cliquez ici pour entrer du texte. |
| Membre académique (commission nationale et/ou internationale) | Cliquez ici pour entrer du texte. |
| autres distinctions | Cliquez ici pour entrer du texte. |
| **Collaborations**  |  | * Laboratoire de Physique appliquée de la Faculté des Science de Sfax, Tunisie.
* Laboratoire de sciences des matériaux et de l’environnement (MESLab), Sfax, Tunisie
* Laboratoire de l'état solide, Faculté des Sciences de Sfax, Tunisie.
* Laboratoire de la Matière Condensée et Nano structures (LMCN) de la Faculté des Science et Techniques de Marrakech, Maroc.
* Institut de Chimie de la Matière Condensée de Bordeaux (I.C.M.C.B.), France.
* Laboratoire SPMS, UMR 8580 CNRS, Ecole Centrale Paris, France.
* Laboratoire de Physique de la Matière Condensée, Université de Picardie Jules Verne Amiens, France.
* Institut des matériaux et de la technologie de la surface, l'Université des sciences appliquées de Kiel, Allemagne.
* Laboratoire d’Etudes des Matériaux et des Composants pour l’Electronique (LEMCEL), Calais, France.
* Laboratoire d'Etudes des Matériaux Optoélectroniques et Polymères (LEMOP) , université d’Oran, Algérie.
* Laboratoire Charles Coulomb de l’Université de Montpellier.
* Université Badji Mokhtar, de Annaba, Algérie.
* Université de Chemnitz, Germany.
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ANNEXES [Lister toutes les annexes]

Statistics

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| *RG Score* | 40.25 |
| *Publications*  | 191 |
| *Reads* | 16,686 |
| *Citations**h-index* | 181324 |

Skills & Activities

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| --- | --- |
| *Skills* | Ceramics, Materials, Advanced Ceramics, Materials Characterization, Nanomaterials, Solid State Physics, Material Characterization, Perovskites, Inorganic Chemistry, Materials Chemistry, Solid-State Chemistry, Ceramic & Composite, Materials Research, Ferroelectrics, X-ray Diffraction, Materials Processing, Piezoelectricity, Crystal, Single Crystal, Sintering |
| *Languages* | Arabic, Arabic, English, French, French |
| *Scientific Memberships* | Laboratory of Ferroelectric Materials, University of Sfax |
| *Interests* |  |

Articles impactés et indexes

1. Maria Khacheba, Noura Abdessalem, Ahmed Hamdi, Hamadi Khemakhem: *Effect of acceptor and donor dopants (Na, Y) on the microstructure and dielectric characteristics of high Curie point PZT-modified ceramics*. Journal of Materials Science Materials in Electronics 11/2019;, DOI:10.1007/s10854-019-02535-y
2. Wahiba Chatta, Brahim Lagoun, Hamza Lidjici, Abdelhakim Chadli, Abderrahmane Cheriet, Hichem Farh, Hamadi Khemakhem, Khenchoul Salah: *TB-mBJ Calculations of Structural and Optoelectronic Properties of the Rhombohedral Phase of Bismuth Sodium Titanate (Bi0.5 Na0.5)TiO3*. Solid State Phenomena 09/2019; 297:165-172., DOI:10.4028/www.scientific.net/SSP.297.165
3. S. Zeroual, H. Lidjici, W. Chatta, H. Khemakhem: *Dielectric and Raman spectroscopy studies of (Na0.5Bi0.5)TiO3 lead-free ceramic*. Cerâmica 06/2019; 65(374):222-226., DOI:10.1590/0366-69132019653742627

4- Olfa Turki, Ahmed Slimani, Laurence Seveyrat, Zina Sassi, Hamadi Khemakhem, Laurent Lebrun: *Enhancement of dielectric, piezoelectric, ferroelectric, and electrocaloric properties in slightly doped (Na 0.5 Bi 0.5 ) 0.94 Ba 0.06 TiO 3 ceramic by samarium*. Journal of Applied Physics 05/2019; 125(17):174103., DOI:10.1063/1.5083670

5- A. Amouri, M.A. Wederni, N. Abdelmoula, H. Khemakhem: *Enhanced multiferroïc properties in Bi(1-x)Y2x/3[Ti0.95(Yb0.5Nb0.5)0.05]xFe(1-x)O3 ceramics*. Journal of Alloys and Compounds 04/2019; 794., DOI:10.1016/j.jallcom.2019.04.286

6- N. K. Maaloul, Kraini Mabrouk, K. Khirouni, H. Khemakhem: *Effect of Seed Layer and Thermal Annealing on Structural and Optical Properties of Silicon Layers Deposited by PECVD*. Journal of Electronic Materials 03/2019; 48(6)., DOI:10.1007/s11664-019-07143-4

7- Mohamed Hassen Khedhri, Najmeddine Abdelmoula, Hamadi Khemakhem, Redouane Douali, Frederic Dubois: *Structural, spectroscopic and dielectric properties of Ca-doped BaTiO3*. Applied Physics A 02/2019; 125(3)., DOI:10.1007/s00339-019-2487-y

8- Dharmendra Pratap Singh, Benoit Duponchel, Yaochen Lin, Jean-François Blach, Hamadi khemakhem, Christian Legrand, Redouane Douali: *Orientation of 4-n-octyl-4’-cyanobiphenyl molecules on graphene oxide surface via electron-phonon interaction and its application in nonlinear electronics*. Journal of Materials Chemistry C 01/2019; 7(9)., DOI:10.1039/C8TC05696J

9- N. El Arbi, R. Jemai, K. Khirouni, H. Khemakhem: *The Variation of Crystalline Structure Induced by Gas Dilution and Thermal Annealing in Silicon Layers Deposited by PECVD Technique*. Silicon 12/2018;, DOI:10.1007/s12633-018-0025-8

10- F. Lawar, J. Belhadi, B. Asbani, B. Manoun, H. Kaddoussi, M. Courty, C. Boudaya, M. El Marssi, H. Khemakhem, A. Lahmar: *Structural investigation, dielectric, ferroelectric, and elecrocaloric properties of lead-free Ba(1−x)CaxTi(1−x)(Li1/3Nb2/3)xO3−δ (x = 0.02 and x = 0.07) ceramics*. Journal of Materials Science Materials in Electronics 09/2018; 29(2)., DOI:10.1007/s10854-018-9983-2

12- Hamdi Bouzidi, Hanèn Chaker, Mohamed Es-souni, Chiheb Chaker, Hamadi Khemakhem: *Structural, Raman, ferroelectric and magnetic studies of the (1-x)BF-xBCT multiferroic system*. Journal of Alloys and Compounds 09/2018; 772., DOI:10.1016/j.jallcom.2018.09.105

13- F. Mizouri, N. Abdelmoula, D. Mezzane, H. Khemakhem: *Impedance spectroscopy and conduction mechanism of multiferroic Bi 0.8 (Ba 0.9 Ca 0.1 ) 0.8 Fe 0.8 (Ti 0.9 Sn 0.1 ) 0.8 O 3*. Journal of Alloys and Compounds 06/2018; 763., DOI:10.1016/j.jallcom.2018.05.353

14- S. Koubaa, D. Linda, H. Khemakhem, A. Kabadou: *Crystal structure, phase transitions and dielectric properties of a new layered bimetallic hydrogenselenite: [CuZnCl 2 (H 2 O) 4 ]·(HSeO 3 ) 2*. Journal of Alloys and Compounds 04/2018; 740., DOI:10.1016/j.jallcom.2017.12.376

15- M. Zannen, J. Belhadi, M. Benyoussef, H. Khemakhem, K. Zaidat, M. El Marssi, A. Lahmar: *Electrostatic energy storage in antiferroelectric like perovskite*. Superlattices and Microstructures 03/2018; 127., DOI:10.1016/j.spmi.2018.03.041

16- F. Chaibi, R. Jemai, H. Aguas, H. Khemakhem, K. Khirouni: *The effects of argon and helium dilution in the growth of nc-Si:H thin films by plasma-enhanced chemical vapor deposition*. Journal of Materials Science 03/2018; 53(18–19)., DOI:10.1007/s10853-017-1791-1

17- I. Zouari, Z. Sassi, Laurence Seveyrat, N. Abdelmoula, L. Lebrun, H. Khemakhem: *Structural, dielectric, piezoelectric, ferroelectric and electro-caloric properties of Ba1−xCaxTi0.975(Nb0.5Yb0.5)0.025O3 lead-free ceramics*.

18- Houda Zaghouene, Issa Kriaa, Hamadi Khemakhem: *Ferroelectric and electrocaloric effect in lead-free (Ba1−xCax)1−3y/2BiyTiO3 ceramics*. Materials Science and Engineering B 01/2018; 227:110-115., DOI:10.1016/j.mseb.2017.10.014

19- A. Amouri, S. Aydi, N. Abdelmoula, H. Dammak, H. Khemakhem: *Evidence of magnetoelectric coupling in 0.9BiFeO 3 -0.1Ba[Ti 0.95 (Yb 0.5 Nb 0.5 ) 0.05 ]O 3 ceramic*. Journal of Alloys and Compounds 12/2017; 739., DOI:10.1016/j.jallcom.2017.12.101

20- A. Hamza, F. Benabdallah, I. Kallel, L. Seveyrat, L. Lebrun, H. Khemakhem: *Effect of rare-earth substitution on the electrical properties and Raman spectroscopy of BCTZ ceramics*. Journal of Alloys and Compounds 12/2017; 735., DOI:10.1016/j.jallcom.2017.11.351

21- F. Mizouri, I. Kallel, N. Abdelmoula, D. Mezzane, H. Khemakhem: *Structural dielectric and magnetic properties of (1-x)BiFeO 3 -xBa 0.9 Ca 0.1 Ti 0.9 Sn 0.1 O 3 ceramics*. Journal of Alloys and Compounds 10/2017; 731., DOI:10.1016/j.jallcom.2017.10.066

22- C. Chalfouh, A. Lahmar, N. Abdelmoula, H. Khemakhem: *Structural and dielectrics properties of Pr 3+ doped BaTi 0.925 (Yb 0.5 Nb 0.5 ) 0.075 O 3 ceramics*. Journal of Alloys and Compounds 09/2017; 729., DOI:10.1016/j.jallcom.2017.09.208

23- I. Ghamgui, A. Aydi, Z. Sassi, L. Seveyrat, V. Perrin, A. Maalej, L. Lebrun, H. Khemakhem: *Structural, dielectric and impedance spectroscopy studies of (Na0.5Bi0.5)(Zr0.025Ti0.975)O3 ceramic*. Journal of Materials Science Materials in Electronics 08/2017; 28(23)., DOI:10.1007/s10854-017-7682-z

24- M. Ben Abdessalem, S. Aydi, A. Aydi, N. Abdelmoula, Z. Sassi, H. Khemakhem: *Polymorphic phase transition and morphotropic phase boundary in Ba1−x Ca x Ti1−y Zr y O3 ceramics*. Applied Physics A 08/2017; 123(9)., DOI:10.1007/s00339-017-1196-7

25- I. Zouari, Z. Abdelkafi, L. Seveyrat, Z. Sassi, V. Perrin, N. Abdelmoula, L. Lebrun, H. Khemakhem: *Improved piezoelectric and electro-caloric effects in the BaTi 0.975 (Nb 0.5 Yb 0.5 ) 0.025 O 3 lead-free ceramic characterized by phase-coexistence at room temperature*. Materials Chemistry and Physics 07/2017; 200., DOI:10.1016/j.matchemphys.2017.07.075

26- Ahmed Slimani, Hamadi Khemakhem, Kamel Boukheddaden: *Structural synergy in a core-shell spin crossover nanoparticle investigated by an electroelastic model*. 05/2017; 95(17)., DOI:10.1103/PhysRevB.95.174104

27- Imen Djemel, Issa Kriaa, Najmeddine Abdelmoula, Hamadi Khemakhem: *The effect of low Sn doping on the dielectric and electrocaloric properties of ferroelectric ceramics Ba 0.95 Sr 0.05 Ti 0.95 Zr 0.05 O 3*. Journal of Alloys and Compounds 05/2017; 720., DOI:10.1016/j.jallcom.2017.05.284

28- H. Kaddoussi, A. Lahmar, Y. Gagou, B. Manoun, J.N. Chotard, J.-L. Dellis, Z. Kutnjak, H. Khemakhem, B. Elouadi, M. El Marssi: *Sequence of structural transitions and electrocaloric properties in (Ba1-xCax)(Zr0.1Ti0.9)O3 ceramics*. Journal of Alloys and Compounds 04/2017; 713., DOI:10.1016/j.jallcom.2017.04.148

29- L. Ben Abdessalem, S. Aydi, A. Aydi, Z. Sassi, A. Maalej, H. Khemakhem: *X-ray diffraction, dielectric, and Raman spectroscopy studies of BaSrTiO3–NaNbO3 ceramic*. Applied Physics A 04/2017; 123(5)., DOI:10.1007/s00339-017-0920-7

30- C. Chalfouh, A. Lahmar, S. Zghal, R. Hannachi, N. Abdelmoula, H. Khemakhem: *Effects of lanthanide amphoteric incorporation on structural, electrical, and photoluminescence properties of BaTi0.925(Yb0.5Nb0.5)0.075O3 ceramic*. Journal of Alloys and Compounds 04/2017; 711., DOI:10.1016/j.jallcom.2017.03.351

31- Sonia Chihaoui, Hanèn Chaker, Chiheb Chaker, Hamadi Khemakhem: *X-ray diffraction, dielectric and Raman studies of the Ba 1-x Na x Ti 1-x (Nb 1-y Sb y ) x O 3 ceramics*. Ceramics International 04/2017; 43(12)., DOI:10.1016/j.ceramint.2017.04.032

32- A. Amouri, H. Abdelkefi, N. Abdelmoula, H. Khemakhem: *Phase transition behavior and ferroelectric and vibrational properties of (Na0.5Bi0.5)1−x Ba x Ti1−x (Fe0.5Nb0.5) x O3 ceramics*. Journal of Materials Science 04/2017; 52(7)., DOI:10.1007/s10853-016-0649-2

33- I. Zouari, Z. Sassi, L. Seveyrat, V. Perrin, S. Zghal, N. Abdelmoula, L. Lebrun, H. Khemakhem: *Effects of Er3+ and Pr3+ Substitution on Structural, Dielectric, Ferroelectric and Photoluminescence Properties of the BaTi0.9Zr0.1O3 Ceramic*. Journal of Electronic Materials 03/2017; 46(7):1-8., DOI:10.1007/s11664-017-5451-7

34- M. Zannen, A. Lahmar, Z. Kutnjak, J. Belhadi, H. Khemakhem, M. El Marssi: *Electrocaloric effect and energy storage in lead free Gd 0.02 Na 0.5 Bi 0.48 TiO 3 ceramic*.

35- M Zannen, A Lahmar, Z Kutnjak, J Belhadi, H Khemakhem, M El Marssi: *Electrocaloric effect and energy storage in lead free Gd 0.02 Na 0.48 Bi 0.5 TiO 3 ceramic*. Solid State Sciences 02/2017;

36- Issa Kriaa, Ahmed Maalej, Hamadi Khemakhem: *Electrocaloric Study Effect in the Relaxor Ferroelectric Ceramic 0.9(0.75PMN-0.25PT)-0.1PS*. Journal of Electronic Materials 02/2017; 46(4)., DOI:10.1007/s11664-017-5336-9

37- G. Khasskhoussi, Z. Abdelkafi, H. Khelifi, N. Abdelmoula, D. Mezzane, H. Khemakhem: *Improved dielectric and ferromagnetic properties of Fe-site substituted rhombohedral structured BiFeO3 ceramic*. Journal of Alloys and Compounds 01/2017; 701., DOI:10.1016/j.jallcom.2017.01.120

38- A Lahmar, J Belhadi, M El Marssi, M Zannen, H Khemakhem, N Al-Dahoudi: *Energy storage property of Lead-free Na 0.5 Bi 0.5 TiO 3 ceramic and thin film*.

39- H. Lidjici, B. Lagoun, H. Khemakhem: *Dielectric and Raman Studies of 0.935(Bi 0.5 Na 0.5 TiO 3 )-0.065BaTiO 3 Lead Free Ceramics*. Acta Physica Polonica Series a 12/2016; 130(6):1431-1434., DOI:10.12693/APhysPolA.130.1431

40- Souad Chkoundali, Faouzi Hlel, Hamadi Khemekhem: *Synthesis, crystal structure, thermal and dielectric properties of tetrapropylammonium tetrabromozincate [N(C3H7)4]2[ZnBr4] compound*. Applied Physics A 12/2016; 122(12)., DOI:10.1007/s00339-016-0596-4

41- S. Chihaoui, L. Seveyrat, V. Perrin, I. Kallel, L. Lebrun, H. Khemakhem: *Structural evolution and electrical characteristics of Sn-doped Ba0.8Sr0.2TiO3 ceramics*. Ceramics International 09/2016; 43(1)., DOI:10.1016/j.ceramint.2016.09.176

42- Dhifallah Nabil, Bernard Hehlen, Mimoun El Marssi, Dammak Mohamed, Hamadi Khemakhem: *Soft-mode spectroscopy in cubic (Ba0.8Sr0.2)Ti0.95(Zn1/3Nb2/3)0.05O3 by Hyper-Raman scattering and the mechanism of the phase transition*. Solid State Communications 09/2016; 248., DOI:10.1016/j.ssc.2016.09.016

43- Z. Abdelkafi, N. Abdelmoula, H. Khemakhem: *Temperature Evolution of Physical Properties of BaTi0.9(Nb0.5Yb0.5)0.1O3 Lead-Free Ceramic*. Journal of Electronic Materials 08/2016; 45(11)., DOI:10.1007/s11664-016-4845-2

44- O. Turki, A. Slimani, L. Seveyrat, G. Sebald, V. Perrin, Z. Sassi, H. Khemakhem, L. Lebrun: *Structural, dielectric, ferroelectric, and electrocaloric properties of 2% Gd2O3 doping (Na0.5Bi0.5)0.94Ba0.06TiO3 ceramics*. Journal of Applied Physics 08/2016; 120(054102)., DOI:10.1063/1.4960141

45- Moneim Zannen, Abdelilah Lahmar, Hamadi Khemakhem, Mimoun El Marssi: *Energy storage property in lead free Gd doped Na 1/2 Bi 1/2 TiO 3 ceramics*. Solid State Communications 07/2016; 245., DOI:10.1016/j.ssc.2016.07.010

46- N. Dhifallah, B. Hehlen, M. Dammak, H. Khemakhem: *Phase formation and dielectric study of Bi doped (Ba0.8Sr0.2)Ti0.95(Zn1/3Nb2/3)0.05O3 ceramic*. Materials Chemistry and Physics 06/2016; 181., DOI:10.1016/j.matchemphys.2016.06.047

47- C. Chalfouh, S. Zaghal, A. Lahmar, Z. Sassi, N. Abdelmoula, H. Khemakhem: *Effect of Pr3+ doping on structural, electrical, and optical properties of BaTi0.925(Yb0.5Nb0.5)0.075O3 ceramics*. Journal of Alloys and Compounds 06/2016; 686., DOI:10.1016/j.jallcom.2016.06.035

48- A. Amouri, N. Abdelmoula, H. Khemakhem: *Improved multiferroic properties in (1-x)BiFeO3-xBaTi0.95(Yb0.5Nb0.5)0.05O3 system (0 ≤ x ≤ 0.3)*. Journal of Magnetism and Magnetic Materials 05/2016; 417., DOI:10.1016/j.jmmm.2016.05.088

49- Zayani Jaafar Othman, Sarra Ayed, Adel Matoussi, Hamadi Khemakhem: *Optical and Raman studies of Zn1-xMgxO ceramic pellets*. Vibrational Spectroscopy 05/2016; 85., DOI:10.1016/j.vibspec.2016.05.001

50- Hamza. Lidjici, Brahim Marfoua, Brahim Laghoun, Mohamed Rguitti, Hamadi Khemakhem: *Dielectric properties and relaxor behavior of 0.935(Na0.5Bi0.5)TiO3−0.065BaTiO3 lead free piezoelectric ceramic*. Ceramics International 05/2016; 42(11)., DOI:10.1016/j.ceramint.2016.05.029

51- Fethia Abdelli, Chokri Boudaya, H. Khemakhem: *Microstructure, X-ray diffraction, dielectric and Raman spectroscopy studies of CaxSryBa1-(y+x)Nb2O6 ceramics*. Journal of Alloys and Compounds 04/2016; 683., DOI:10.1016/j.jallcom.2016.04.189

52- Sarra Ayed, Helmi Abdelkefi, Hamadi Khemakhem, Adel Matoussi: *Solid State Synthesis and Structural Characterization of Zinc Titanates*. Journal of Alloys and Compounds 03/2016; 677., DOI:10.1016/j.jallcom.2016.03.244

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