

Liste des productions scientifiques(publications,communications,...)

Année 2023

Etablissement Universitaire: Université 8 Mai 1945 de Guelma  
 Faculté: Mathématiques, Informatique et Sciences de la Matière  
 Laboratoire: Physique Des Matériaux (L2PM)

<i>Productions Scientifiques 2023</i>								
<i>Publications</i>								
<i>Titre</i>	<i>Auteurs</i>	<i>Revue</i>	<i>Année</i>	<i>Catégorie de la revue:A+ , A , B-Scopus, B-non Scopus, non classée</i>	<i>Volume</i>	<i>Page</i>	<i>URL</i>	
<i>Publications internationales</i>	<i>First principles calculations to investigate chromium doping effect on structural, elastic, electronic, magnetic and optical properties on the high matrix CaTe</i>	<i>Rabah Bencheikh· Zeyneb Abdelli· Athmane Meddour· Noureddine Benslim</i>	<i>journal optical and Quantum Electronics</i>	<i>2023</i>	<i>A</i>	<i>56</i>	<i>261</i>	<i><a href="https://doi.org/10.1007/s11082-023-05846-x">https://doi.org/10.1007/s11082-023-05846-x</a></i>
	<i>Giant band gap bowing in two dimensional Pb1-xSnxO alloys and Janus PbSnO monolayers</i>	<i>Yusuf Zuntu Abdullahi, Yesim Mogulkoc, Ali Bakhtatou, Fatih Ersan</i>	<i>Journal of Physics and Chemistry of Solids</i>	<i>2023</i>	<i>A</i>	<i>175</i>	<i>111203</i>	<i><a href="https://www.science-direct.com/science/article/abs/pii/S0022369722006205">https://www.science-direct.com/science/article/abs/pii/S0022369722006205</a></i>

Emergent properties resulting from type-II band alignment in a new lateral ( $\alpha$ -PbO/ $\alpha$ -SnO) heterostructure	Ali Bakhtatou, Ali Hamidani, Kamel Zanat, Yasemin O Ciftci, Ilknur Kars Durukan Fatih Ersan	Journal of Physics and Chemistry of Solids	2023	A	183	111654	<a href="https://www.science-direct.com/science/article/abs/pii/S0022369723004444">https://www.science-direct.com/science/article/abs/pii/S0022369723004444</a>
Theoretical study of structural, electronic, elastic and optical properties of Mg <sub>1-x</sub> Cr <sub>x</sub> S in ferromagnetic rock-salt structure	Esma Semassel, Athmane Meddour, Chahrazed Bourouis, Zeyneb Abdelli, Mohamad .H Gous	Physica B: Condensed Matter	2023	A	Volume 657	414778	<a href="https://doi.org/10.1016/j.physb.2023.414778">https://doi.org/10.1016/j.physb.2023.414778</a>
Tuned electronic and magnetic properties in 3d transition metal doped VCl <sub>3</sub> monolayer: a first-principles study	Chaouki Ouettar, Hosayn Chibani Hakima Yahy, Kamel Zanat	Physica Scripta	2023	A	98	25814	<a href="https://doi.org/10.1088/1402-4896/acb093">https://doi.org/10.1088/1402-4896/acb093</a>
Influence of 3d-Fe substitution on structural, mechanical, electronic, and magnetic properties in rock-salt SrS: Insights from the first-principles study	Warda Elaggoune, Chahrazed Bourouis, Mohammed Hadi Gous, Athmane Meddour, Zeyneb Bordjiba	Solid State Communications	2023	A	361	115060	<a href="https://www.science-direct.com/science/article/abs/pii/S0038109822003842">https://www.science-direct.com/science/article/abs/pii/S0038109822003842</a>

Publications internationales	<i>p0-d co-doping alloys as prospective half-semiconductors for optoelectronic, spintronic, and thermoelectric applications</i>	Warda Elaggoune, Chahrazed Bourouis, Athmane Meddour,	Materials Science in Semiconductor Processing	2023	A	165	28-oct	<a href="https://www.science-direct.com/science/article/abs/pii/S1369800123003773">https://www.science-direct.com/science/article/abs/pii/S1369800123003773</a>
	<i>Exploration of structural stability, electronic, and magnetic properties of silver doped MgO at low concentration using the modified Becke and Johnson approach for spintronic applications</i>	Wissem Tayeb Halais Aicha Bouhlala M Doghmane Sabah Chettibi	The European Physical Journal B	2023	A	6		DOI: <a href="https://doi.org/10.1140/epjb/s10051-023-00538-7">10.1140/epjb/s10051-023-00538-7</a>
	<i>First-Principles Calculations of Structural, Elastic, Electronic, and Thermodynamic Properties of ATiO3 (A = Ba or Pb) Perovskites</i>	R Maizi, R Ksouri, N Cheghib, A G Boudjahem, M Derdare	Russian Journal of Inorganic Chemistry	2023	A	68	1019-1028	<a href="https://link.springer.com/article/10.1134/S0036023623600582">https://link.springer.com/article/10.1134/S0036023623600582</a>

Publications internationales	Excellent Thermoelectric Performance in KBaTh (Th= Sb, Bi) Based Half-Heusler Compounds and Design of Actuator for Efficient and Sustainable Energy Harvesting Applications	Debidatta Behera, Rabie Amraoui, Boumaza Akila, Salim Kadri, Ahmed Saeed, Mostafa M Salah, Sanat Kumar Mukherjee,	Crystals	2023	A	13	1551	<a href="https://doi.org/10.3390/cryst13111551">https://doi.org/10.3390/cryst13111551</a>
	Comparative investigations of structural, electronic, optical and thermoelectric properties of pure and 2at.% Al doped ZnO	Nozha El Ahlem DOGHMANE; Djemâa BEN OTHMANE, Malika DOGHMANE, Sabah CHETTIBI, Tahar TOUAM	Journal of Molecular Modeling	2023	A	29	01-janv	<a href="https://doi.org/10.1007/s00894-023-05750-x">https://doi.org/10.1007/s00894-023-05750-x</a>
	Theoretical investigation of Ca <sub>0.75</sub> Cd <sub>0.25</sub> X (X = S, Se), a novel ternary alloy, in light of its structural, elastic, electronic, and optical properties	M,H,Gous F,Chouit H,Meradji A,Boumaza B,Boutarfa R,khenata S,Ghemid	Computational Condensed Matter	2023	A	36	e00823	<a href="https://doi.org/10.1016/j.cocom.2023.e00823">https://doi.org/10.1016/j.cocom.2023.e00823</a>

**Productions Scientifiques 2023**

**Communications**

	<b>Titre</b>	<b>Auteurs</b>	<b>Intitulé de manifestation</b>	<b>Année</b>	<b>Proceeding de la conférence indexé dans Scopus ( oui /non )</b>	<b>Volume</b>	<b>Page</b>	<b>URL</b>
<b>Communications nationales</b>	<i>Multilayered Alpha Lead Oxide (<math>\alpha</math>-PbO) Sheets: Excellent Candidates for Solar Absorbers</i>	<i>Ali Bakhtatou,  Fatih Ersan</i>	<i>The 2th National Conference on Electrical Engineering and its Applications (NCEEA'02) Guelma, Algeria 15 November 2023</i>	<i>2023</i>	<i>non</i>			
	<i>Structural, electronic and magnetic properties of SbNiO<sub>3</sub> perovskite</i>	<i>Boualleg Cheyma  Meddour Athmane</i>	<i>the National Seminar of Physics, Chemistry, and Their Applications Webinar (NSPCA'23) March 6th - 7th Mars 2023 , Bordj Bou Arreridj, Algeria</i>	<i>2023</i>	<i>non</i>			

Communications nationales	The magnetic and optical properties of bulk SrS under Co impurity	Warda Elaggoune, Athmane Meddour, Chahrazed Bourouis	National Seminar of Physics, Chemistry, and Their Applications	2023	non			
	Ab initio calculation of structural, electronic and optical properties of fluoride materials doped rare earth	Abdaoui kelthoum	La première conférence nationale sur la physique et ses applications Bousaada	2023	non			
	Insight into Structural, Electronic, and Magnetic Properties of Full Heusler Alloys Ir <sub>2</sub> VSn:Ab Initio Study	Hadjer Frioui, Athmane Meddour	The 3 <sup>rd</sup> National Conference on Applied Physics & Chemistry (3 <sup>rd</sup> NCAPC23)	2023	non			
	Investigation of the structural, electronic, magnetic, and mechanical properties of Co <sub>2</sub> MnBe Heusler compound: A DFT-based simulation	Hadjer Frioui, Athmane Meddour	The National Seminar of Physics, Chemistry, and Their Applications Webinar (NSPCA'23)	2023	non			

Effect of synthesis process on structural and magnetic properties of Ni-Pt based ceria n	Fatiha SERIDI, Sabah CHATTIBI, Nacira KEGHOUCHE	2nd National Conference on Applied Science and Advanced Materials, NCASAM-2023,	2023	non			
Optoelectronic feature of d-orbital doped ceria using modified TB-mBJ : a theoretical insights	Chettibi Sabah Doughmane Maliak Benmalek Aida	University Mohamed El Bachir El IBRAHIMI of Bordj Bou Arreridj	2023	non			
Comparative study by the DFT method between TB-mBJ and GGA+U on structural, electronic, and optic properties of cerium dioxide: effect of oxygen	Chettibi Sabah Doughmane Maliak Benmalek Aida	Ecole normale supérieure de Laghouat ENS	2023	non			
Theoretical investigation of Europium Doping Effects on ZnO Properties	N.E.A. Doghmane, K. Chaoui, H.E. Doghmane, M. Doghmane, T. Touam, S. Chettibi	JNSM'2023: Journées Nationales des Sciences de la Matière	2023	non			

Communications internationales

<p>Design of a New Photo-diode Based on <math>(\alpha\text{-PbO})/(\alpha\text{-SnO})</math> Lateral Heterostructure</p>	<p>Ali Bakhtatou,  Ali Hamidani</p>	<p>Second International Conference of Nanotechnology for Environmental Protection &amp; Clean Energy (09-10 October 2023) Constantine, Algeria.</p>	<p>2023</p>	<p>non</p>			
<p>Theoretical Design of a new lateral heterostructure <math>(\alpha\text{-PbO})/(\alpha\text{-SnO})</math></p>	<p>Ali Bakhtatou,  Ali Hamidani,  Fatih Ersan</p>	<p>International Conference on Innovation Research in Materials and Nanotechnology. (November 29-30, 2023 ) Ghardaia, Algeria.</p>	<p>2023</p>	<p>non</p>			
<p>First principals study of Structural , elastic, Electronic and Magnetic properties of <math>\text{KAuO}_3</math></p>	<p>Boualleg Cheyma ,  MEDDOUR Athmane ,  Warda Elaggoune</p>	<p>1st International Conference on Materials Science and Applications ICMSA2023 (Hybrid ) Febraury 8th - 9th, 2023, Khenchla - ALGERIA</p>	<p>2023</p>	<p>non</p>			



Communications internationales	Structure and Magnetic behavior of Co doped SrS : ADFT Approach	Warda Elaggoune , MEDDOUR Athmane, Cheyma Boualleg	1st International Conference on Materials Science and Applications ICMSA2023 (Hybrid ) Febraury 8th - 9th, 2023, Khenchla - ALGERIA	2023	non			
	optoelectronic properties of ruthenium doped Magnesium sulfide	Esma Semassel , MEDDOUR Athmane, Cheyma Boualleg	3rd International Conference on Engineering and Applied Natural Sciences on 14-17 Janaury in 2023 at Konya/Turkey	2023	non			
	Theoretical study of structural, electronic and magnetic properties of 2D MoI3 material	Chaouki Ouettar, Hakima Yahi	3rd International Conference on Engineering and Applied Natural Sciences	2023	Non			

<i>Communications internationales</i>	<i>First principles study of the structural, electronic, elastic, and magnetic properties of KAuO3</i>	<i>Cheyma Boualleg, Warda Elaggoune, Athmane Meddour</i>	<i>1st International Conference on Materials Sciences and Applications Khenchela Algeria</i>	<i>2023</i>	<i>non</i>			
	<i>Structue and magnetic behavior of Co-doped SrS: A DFT approach</i>	<i>Cheyma Boualleg, Warda Elaggoune, Athmane Meddour</i>	<i>1st International Conference on Materials Sciences and Applications Khenchela Algeria</i>	<i>2023</i>	<i>non</i>			
	<i>Robust ferromagnetism in Co-doped SrS-based dilute magnetic semiconductor</i>	<i>Warda Elaggoune, Athmane Meddour Chahrazed Bourouis</i>	<i>3rd International Conference on Engineering and Applied Natural Sciences</i>	<i>2023</i>	<i>non</i>			
	<i>Magneto-mechanical properties of Fe-based strontium chalcogenide</i>	<i>Warda Elaggoune, Athmane Meddour Chahrazed Bourouis</i>	<i>2nd International Conference on Scientific and Academic Research</i>	<i>2023</i>	<i>non</i>			

Communications internationales

Effect of platinum addition on catalytic activity of Ni based catalysts in Guaiacol hydrodeoxygenation reaction.	Fatiha SERIDI,  Sabah CHETTIBI	Conférence Internationale sur les Sciences Appliquées et l'Innovation, CISAI 10-11 Juillet 2023 - SOUSSE, TUNISIE	2023	non			
Theoretical design of rutile TiO <sub>2</sub> on structural, electronic and optic properties: effect of cationic substitutions	Benmalek Aida Doughmane Maliak Chettibi Sabah	Organizing Committee Members	2023	non			
Study of electronic, thermoelectric and optical properties of 3d orbitals doped ceria: Based on First Principles	Benmalek Aida Doughmane Maliak Chettibi Sabah	université saad Dahlab 1 Blida	2023	non			
Tuning the electronic and optical properties of Two-dimensional SnSe <sub>2</sub> by biaxial strain for optoelectronic applications	K. Chaoui; K. Zanat; N.E.A. Doghmane;	ICIRMN 2023: 1st International Conference on Innovation Research in Materials and Nanotechnology	2023	non			

Communications internationales	Numerical calculation of AZO physical properties for technological applications	N.E.A. Doghmane; K. Chaoui; M. Doghmane; S. Chettibi	WITAM 2023: 6th International Conference on the World of Technology and Advanced Materials	2023	non			
	Copper thickness dependence of electrical and optical properties in RF sputtered Cu/AZO/glass configuration	N.E.A. Doghmane, F. Challali, A. Chelouche, S. Chettibi, T. Touam	ICHREME2023: 1st International Conference on Hydrocarbons, Renewable Energy, Materials and Environment	2023	non			
	Ab initio calculations of physical properties of wurtzite, zinc-blend and rock salt phases of ZnO	N.E.A. Doghmane, S. Chettibi, M. Doghmane,	ICMSA2023: 1st International Conference on Materials Science and Applications	2023	non			