



Ministère de l'enseignement supérieur et de la recherche scientifique

Etablissement Universitaire: 08 mai 1945 de Guelma

Faculté:MISM

Laboratoire:Physique Des Matériaux (L2PM)

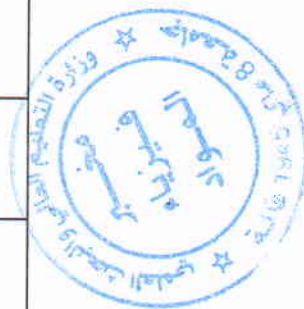
Productions Scientifiques2024								
Publications								
	Titre	Auteurs	Revue	Année	Catégorie de la revue:A+ , A , B-Scopus, B-non Scopus, non classée	Volume	Page	URL
Publications nationales				2024				
	Study of structural, dynamical stability, electronic magnetic and optical properties of RbSnO3 oxide perovskite compound using the density functional theory approach	Cheyma Boualleg, Athmane Meddour, Mohammed Hadi Gous	Physica Scripta	2024	A	99	65919	https://iopscience.iop.org/article/10.1088/1402-4896/ad4070

**Publications
internationales**

Adjustment of ferromagnetism and improvement of the electronic structure of the Ti13 monolayer by the substitutional doping of 3d transition metal atoms: ab-initio investigation,	Norelhouda Salah, Hosayn Chibani, Hakima Yahi, Chaouki Ouettar, Fatih Ersan, Erol Vatansever	Journal of magnetism and magnetic materials	2024	A	599	172083	https://doi.org/10.1016/j.jmmm.2024.172083
Computational design of the novel Fe-doped single-layer SrS: structural, electro-magnetic, and optical properties	Elaggoune, W., Ersan, F., & Meddour, A.	RSC advances	2024	A	14	20668-20682	https://doi.org/10.1039/D4RA004352A
Stability, electronic and magnetic properties of boronphosphide (BP) graphenylene induced by interstitial atomic doping	Elaggoune.W & Y.Z.Abdullahi	Journal of Physics and Chemistry of Solids	2024	A	194	112256	https://doi.org/10.1016/j.jpcs.2024.112256
Understanding the potential of 2D Janus GeSnX 2 and its quaternary derivatives XGe-SnY (X, Y= P, As, X≠ Y) for photocatalytic overall water splitting	K Chaoui, W Elaggoune, K Zanat	International Journal of Hydrogen Energy	2024	A+	91	1221-1231	https://doi.org/10.1016/j.ijhydene.2024.12211231



Theoretical insights into Z-scheme BAs/GeC van der Waals heterostructure for high-efficiency solar cell	Chaoui, K., Zanat, K., Elaggoune, W., Henrard, L., & Achehboune,	RSC advances	2024	A	14	39625-39635	https://doi.org/10.1039/D4RA08369E
Structural, mechanical, electronic, magnetic, optical, and thermoelectric properties of a new equiatomic quaternary heusler compound FeZrCrZ (Z = Si, Ge, Sn): A first-principles investigation	Hadjer Frioui, Athmane Meddour, Mohammed Hadi Gous	Materials Science in Semiconductor Processing	2024	A	Volume 182	108697	https://doi.org/10.1016/j.mssp.2024.108697
Microstructural and optoelectronic properties of sputtered Al:ZnO films and Al:ZnO/Cu bilayer structures: Effects of substrate and Cu thickness	N.E.A. Doghmane, S. Chettibi, F. Challali, A. Chelouche & T. Touam	Thin Solid Films	2024	A	33	26717-26727	https://doi.org/10.1016/j.tsf.2024.140482
Unveiling the impact of Cd and Zn substitutions on the mechanical, electronic, and optical properties of SrS: A first principles analysis	Fares Serradj a, Mohammed Hadi Gous b, Bariza Bouterfa a, Salah Khenchoul c, Brahim Belfarhi	Physica B: Condensed Matter	2024	A	689		https://www.sciencedirect.com/science/article/abs/pii/S0921452624005453



Promising doped and co-doped CeO ₂ and TiO ₂ oxides for optoelectronic applications: First principles approach	BENMALEK Aida M. Doghmane Sabah Chettibi	Optik	2024	A	300	171613	DOI: 10.1016/j.jilleo.2024.171613
The impact of molybdenum and tungsten co-doping on the physical properties of CeO ₂ : First-principles calculations	Aicha Bouhlala M. Doghmane Wisseem Tayeb Halais Sabah Chettibi	Modern Physics	2024	B	38	38(30)	DOI: 10.1142/S0217984924502853
Two-Dimensional Magnetic Semiconductors by Substitutional Doping of Monolayer PtS ₂	Zeyneb Bordjiba, Paresh C Rout, Minglei Sun, Athmane Meddour, Udo Schwingenschlög	ACS Applied Electronic Materials	2024	A	10	7268-7275	https://doi.org/10.1021/acsaem.4c01196
Structural, magnetic, and optoelectronic properties of rock salt MgO co-doped with Eu-TM (TM = Cu, Ag, and Au) for spintronic and UV detector applications: SP-	Wisseem Tayeb Halais M. Doghmane Aicha Bouhlala Sabah Chettibi	Modern Physics	2024	B	32	22	DOI: 10.1142/S021798492450180X



Communications

Titre	Auteurs	Intitulé de manifestation	Année	Proceeding de la conférence indexé dans Scopus (oui /non)	Volume	Page	URL
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Communications nationales	Magnetic and electronic properties of two-dimensional ferromagnetic semiconductor TiCl_3 monolayer substitute by 3d transition metals: DFT simulation	Norelhouda Salah, Hakima Yahi	3 rd national seminar on applied chemistry	2024	non			
	Tuning the magnetic and electronic properties of two-dimensional bipolar semiconductor F eCl_3 by 3d transition metal doping: A first-principles study	Norelhouda Salah, Hakima Yahi	National Conference of Applied Sciences and Engineering NCASE '24	2024	non			
	INVESTIGATION OF ELECTRONIC AND MAGNETIC PROPERTIES OF NEW TWO-DIMENSIONAL MATERIALS	Hakima YAH, Norelhouda SALAH, Hossayn CHIBANI, Chaouki OUETTAR	3ème Séminaire National sur la Chimie Appliquée Guelma, 14 Novembre 2024	2024	non			
	STRUCTURAL STABILITY, MAGNETIC PROPERTIES AND ELECTRONIC STRUCTURE OF PT_3X ALLOYS	Mezhoudi Latifa	3ème Séminaire National sur la Chimie Appliquée Guelma, 14 Novembre 2024	2024	non			



FIRST-PRINCIPLES STUDY OF THE ELECTRONIC AND OPTICAL PROPERTIES OF Mn3P ALLOY BASED ON THE DO3-TYPE	Mezhoudi Latifa	3ème Séminaire National sur la Chimie Appliquée Guelma, 14 Novembre 2024	2024	non			
Strain Effects on the Electronic Properties of Monolayer Germanium Disulfide (α -GeS ₂)	Bakhtatou Ali and Fatih Ersan	3ème Séminaire National Sur la Chimie Appliquée "SNCA"	2024	non			
Propriétés structurales et électroniques de la phase wurtzite ZnO dopé en aluminium	N. E. A. Doghmane, H.E. Doghmane, N.E.I. Zeghoum, E. Sakher, M. Doghmane & S. Chettibi	Le 1er Séminaire Nationale Hybride de Chimie SNHC'24, (26 -27 oct. 2024) Batna Algeria	2024	non			
Influence of Interfacial Dielectrics (SiO ₂ /HfO ₂ and Al ₂ O ₃ /HfO ₂ on the performance and Characteristics of a-ITZO TFTs: A comparative study and In-depth analysis	D. Ben Othmane, A. Lamia, N.E.A. Doghmane & A. Doghmane	The Inaugural National Congress In Physical and Chemistry Sciences (INCPCS 2024). May, 07th 2024, Assia Djebar Higher Normal School of Constantine, Algeria.	2024	non			



Oxide thickness variations and their effects on VDMOS transistor performance", National seminar on nanomaterials: Synthesis and applications	D. Ben Othmane, N.E.A. Doghmane, F. Hadj & A. Doghmane	National Seminar on Nanomaterials: Synthesis and Applications. June, 05th and 6th 2024, University of M'hamed Bougera of Boumerdes, Algeria Synthesis and Applications -NSN'24-	2024	non			
The adequate choice of the dielectric/semiconductor interface for improved SOI MESFET performances	L. Abid, N. E. Abdaoui, N.E.A. Doghmane & A. Doghmane	NATIONAL CONFERENCE ON MATERIALS ENERGY ENVIRONMENT 2024, (Feb. 13-14, 2024) Biskra, Algeria	2024	non			
Synthesis of TiO2 thin films and annealing temperature effects on properties	H.E. Doghmane, N.E.A. Doghmane, E. Sakher & T. Touam	Le 1er Séminaire Nationale Hybride de Chimie SNHC'24. (26 -27 oct. 2024) Batna Algeria	2024	non			



	Study on the structural ,electronic and optical behavior of (Mo,Au,Th,Ti,Os and Zr)	DOGHMANE Malika and S,CHETTIBI and C,METTLAGHI	3ème Séminaire National sur la Chimie Appliquée Guelma, 14 Novembre 2024	2024	non				
Communications internationales	Systematic study of electronic and magnetic properties of Vanadium trihalides monolayers VX3 (X= Cl and I) with unusual Dirac half-metallicity and a robust ferromagnetism	Norelhouda Salah, Hakima Yahi	2nd International Conference on Scientific and Innovative Studies ICSIS 2024 on April 18-19, 2024 in Konya, Turkey	2024	non				
	Enhancement of magnetic and electronic properties of two-dimensional FeF3 monolayer by 3d transition metal doping: A first-principles study	Norelhouda Salah, Hakima Yahi	4th International Conference on Scientific and Academic Research on 19-20 July in 2024 at Konya/Turkey.	2024	non				
	First principle study of structural, electronic and magnetic properties of 3d TM doping on MnI3 monolayer: application in data storage	Norelhouda Salah, Hakima Yahi	2nd International Conference on Scientific and Innovative Studies ICSIS 2024 on April 18-19, 2024 in Konya, Turkey	2024	non				

Electronic and magnetic properties of 2D Chromium trihalides CrX ₃ (X= I, Cl, Br, F) monolayers: within GGA and GGA+U framework	Norelhouda Salah, Hakima Yahi	2nd International Conference on Scientific and Innovative Studies ICSIS 2024 on April 18-19, 2024 in Konya, Turkey	2024	non			
Systematic study of electronic and magnetic properties of Vanadium trihalides monolayers VX ₃ (X= Cl and I) with unusual Dirac	Norelhouda Salah, Hakima Yahi	2nd International Conference on Scientific and Innovative Studies ICSIS 2024 on April 18-19, 2024 in Konya, Turkey	2024	non			
Ab-initio calculation of electronic and magnetic properties of two	Norelhouda Salah, Hakima Yahi	4th International Conference on Innovative Academic Studies March 12 – 13 in 2024 at Konya/Turkey.	2024	Non			



Exploring the electronic and magnetic properties of new two dimensional transition metal trihalides: Sc and V doped TiI3	H. YAHI, N. SALAH, H. CHIBANI, C. OUETTAR, F. ERSAN, E. VATANSEVER	58th ISTANBUL International Conference on Research in Science, Engineering and Technology IRSET-24 International conference of Materials, Engineering and Renewable energy	2024	non		
Modulation of Electronic and Mechanical Characteristics of W4C3 MXene 2D-Material Through Density Functional Theory Calculations	Hakima YAHI and Hossayn CHIBANI	1st international conference of materials engineering and renewable energy International conference of Materials, Engineering and Renewable energy November 8-10, 2024 -Guelma	2024	non		



Enhanced Structural Stability and Mechanical Properties of Sc4C3 MXene Monolayer Based on First-Principle Calculations	Hakima YAH and Hossayn CHIBANI	1st international conference of materials engineering and renewable energy International conference of Materials, Engineering and Renewable energy November 8-10 , 2024 -Guelma	2024	non		
First principle study of structural, electronic and magnetic properties	YAH Hakima	2nd International Conference on Scientific and Innovative Studies ICSIS 2024 on April 18-19, 2024 in Konya, Turkey	2024	non		
Enhancement of magnetic and electronic properties of twodimensional FeF3 monolayer by 3d transition metal doping: A firstprinciples study	YAH Hakima	4th International Conference on Scientific and Academic Research on 19-20 July in 2024 at Konya/Turkey.	2024	non		



Ab-initio calculation of electronic and magnetic properties of two dimensional FeCl3 monolayer: application in electronic devices	YAHY HAKIMA	4th International Conference on Innovative Academic Studies March 12 – 13 in 2024 at Konya/Turkey	2024	non		
Structural and microstructural study of nanoclay	E. Sakher, N.E.A. Doghmane, H. E. D. Doghmane, S. Chadli, F. Baira, M. Sakemeh & S. Bullichi,	1st International Seminar on Mechatronics Innovation Materials, Renewable Energy and Artificial Intelligence (16-17 Nov. 2024), Tipaza, Algeria.	2024	non		

Visas et Signature du Directeur de Laboratoire

