

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

Année 2024

Etablissement Universitaire: Université 8 Mai 1945 de Guelma

Faculté: Mathématique, Informatique et Sciences de la Matière

Laboratoire: Physique des Matériaux "L2PM"

	Productions Scientifiques 2024							
	Publications							
	Titre	Auteurs	Revue	Année	Catégorie de la revue: A+ , A , B-Scopus, B-non Scopus, C, non classée	Volume	Page	URL
Publications internationales	Study of structural, dynamical stability, electronic magnetic and optical properties of RbSnO3 oxide perovskite compound using the density functional theory approach	Cheyman Boualleg Athmane Meddour Mohammed Hadi Gous	Physica Scripta	2024	A	99	65919	https://iopscience.iop.org/article/10.1088/1402-4896/ad4070
	Adjustment of ferromagnetism and improvement of the electronic structure of the TiI3 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

Publications internationales	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/D4RA04352A
	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.2024.10.107
	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

Publications internationales	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

Publications internationales	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.ijleo.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 Schwingenschlögl	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-DFT investigations	Wisseem Tayeb Halais M. Doghmane Aicha Bouhlala Sabah Chettibi	Modern Physics	2024	B	32	22	DOI: 10.1142/S021798492450180X

	Productions Scientifiques 2024							
	Communications							
	Titre	Auteurs	Intitulé de manifestation	Année	Proceeding de la conférence indexé dans Scopus (oui /non)	Volume	Page	URL
Communications nationales	Magnetic and electronic properties of two-dimensional ferromagnetic semiconductor TiCl_3 monolayer substitute by 3d transition metals: DFT simulation	Norelhouda Salah Hakima Yahia	3 rd national seminar on applied chemistry	2024	non			
	Tuning the magnetic and electronic properties of two-dimensional bipolar semiconductor FeCl_3 by 3d transition metal doping: A first-principles study	Norelhouda Salah Hakima Yahia	National Conference of Applied Sciences and Engineering NCASE '24	2024	non			
	INVESTIGATION OF ELECTRONIC AND MAGNETIC PROPERTIES OF NEW TWO-DIMENSIONAL MATERIALS	Hakima YAHIA 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			

Communications nationales	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)	Fatih Ersan Bakhtatou Ali	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-deph 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 Djebbar Higher Normal School of Constantine, Algeria.	2024	non			

Communications nationales	Oxide thickness variations and their effects on VDMOS transistor performance", National seminar on nanomaterials: Synthesis and applications	D. Ben Othmane F. Hadj N.E.A. Doghmane 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 S,CHETTIBI 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 VX ₃ (X= Cl and I) with unusual Dirac half-metallicity and a robust ferromagnetism	Norelhouda Salah Hakima Yah	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 FeF ₃ monolayer by 3d transition metal doping: A first-principles study	Norelhouda Salah Hakima Yah	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 MnI ₃ monolayer: application in data storage	Norelhouda Salah Hakima Yah	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 Yah	2nd International Conference on Scientific and Innovative Studies ICSIS 2024 on April 18-19, 2024 in Konya, Turkey	2024	non			

Communications internationales	Systematic study of electronic and magnetic properties of Vanadium trihalides monolayers VX ₃ (X= Cl and I) with unusual Dirac	Norelhouda Salah Hakima Yah	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 Yah	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 TiI ₃	H. YAHY, 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			

Communications internationales	Modulation of Electronic and Mechanical Characteristics of W4C3 MXene 2D-Material Through Density Functional Theory Calculations	Hakima YAHY 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 YAHY 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			

Communications internationales	First principle study of structural, electronic and magnetic properties	YAHY 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 first principles study	YAHY 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			