

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 de Physique de Guelma "LPG"

	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	Unveiling the impact of Cd and Zn substitutions on the structural, mechanical, electronic, and optical properties of SrS: A first principles analysis.	Fares Serradj Bariza Bouterfa Salah Khenchoul Brahim Belfarhi Mohammed Hadi Gous	PHYSICA B-CONDENSED MATTER	2024	A	689	416204	https://doi.org/10.1016/j.physb.2024.416204
	Exploring the potential of two-dimensional MB4 (M= Cr, Mo, and W) monolayer as a high-capacity negative electrode material for Al-ion batteries.	Khawla Chaoui Masood, M. Kashif Javed Rehman Haseebul Hassan Wahidullah Khan Irslan Ullah Ashraf Aboud Ahmed Awadh Bahajjaaj	Surfaces and Interfaces	2024	A	54	105254	https://doi.org/10.1016/j.surfin.2024.105254

Publications internationales	Boron phosphide (BP) biphenylene and graphenylene networks as anode and anchoring materials for Li/Na-ion and Li/Na-S batteries	Haouam Marwa Kamel Zanat Fatih Ersan Yusuf Zuntu Abdullahi	Applied Surface Science	2024	A	662	160096	https://doi.org/10.1016/j.apsusc.2024.160096
	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	Chaoui Khawla Kamel Zanat Warda Elaggoune	International Journal of Hydrogen Energy	2024	A	91	1221	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 Khawla Kamel Zanat Warda Elaggoune Mohamed Achehboune Luc Henrard	RSC advances	2024	A	53	39625	https://doi.org/10.1039/D4RA08369E
	Theoretical investigation of XSnH ₃ (X: Rb, Cs, and Fr) perovskite hydrides for hydrogen storage application	Khawla Chaoui Shazia Bibi Javed Rehman Masood, M. Kashif Anza Kanwal Wahidullah Khan Asma A. Alothman Zeshan Ashraf	Hydrogen Energy	2024	A	63	1248	https://doi.org/10.1016/j.ijhydene.2024.03.229

Publications internationales	First-principles analysis of physical properties of the novel calcium-based hydrides for hydrogen storage application	Khawla Chaoui Naveed Ashraf Ramesh Sharma Ali Hammad Javed Rehman Rizwan Rafique Wahidullah Khan Asma A. Alothman M. Kashif Masood	Physics Letters A	2024	A	504	129443	https://doi.org/10.1016/j.physleta.2024.129443
	Metal-decorated boron phosphide (BP) biphenylene and graphenylene networks for ultrahigh hydrogen storage	Kamel Zanat Ikram Djebablia Fatih Ersan Yusuf Zuntu Abdullahi	International Journal of Hydrogen Energy	2024	A	66	33	https://doi.org/10.1016/j.ijhydene.2024.04.080
	Novel B6P6X (X= As, Sb) monolayers for antiferromagnetic spintronics and hydrogen storage	Ikram Djebablia Sohail Ahmad Yusuf Zuntu Abdullahi	Journal of Physics and Chemistry of Solids	2024	A	197	112431	https://doi.org/10.1016/j.jpcs.2024.112431

	Productions Scientifiques 2024							
	Communications							
	Titre	Auteurs	Intitulé de manifestation	Année	Proceeding de la conférence indexé dans Scopus (oui /non)	Volume	Page	URL
Communications nationales	Structural and elastic properties of the half-Heusler compounds XBeP (X= Li and Na) NaCaX (X= N, P, As)	CHAOULI Aissa	The First National Conference of Materials Sciences And Renewable Energy (CMSRE24)	2024				https://univ-relizane.dz/en/the-first-national-conference-of-materials-sciences-and-renewable-energy/
	First principles study of structural, elastic and electronic properties of SrS doped with Sn	Chiraz Soundes BOUAITA HAMIDANI Ali Badis BENNECER	2ND NATIONAL CONFERENCE ON MATERIALS?ENERGY & ENVIRONMENT	2024				https://fst.univ-biskra.dz/images/2023/2_nd_NATIONAL_CONFERENCE_ON_MATERIALS_ENERGY_ENVIRONMENT_adaika_2024_FEBRUARY.pdf

Communications internationales	first principles study of structural, electronic and magnetic properties of diluted magnetic semiconductor	BENDJEMIL Samiya KAHLERRAS Feteh	1st International Conference on Technological Applications of Materials (ICTAM'24)	2024				https://ictam24.univ-setif.dz/index.php?lang=en
	Ab initio electronic structure calculations of diluted magnetic semiconductor based CdS	BENDJEMIL Samiya KAHLERRAS Feteh	1st international Seminar in Materials and Engineering Structures (ISMES'2024)	2024				https://ismes-24.sciencesconf.org/
	Structural and electronic properties of NaCaP half-Heusler by the first principles calculations	CHAOULI Aissa BENNECER Badis	1st international Seminar in Materials and Engineering Structures (ISMES'2024)	2024				https://ismes-24.sciencesconf.org/
	First principles calculations of structural, electronic and optical properties on NaCaX (X= N, P, As)	CHAOULI Aissa BENNECER Badis	1st International Conference on Technological Applications of Materials (ICTAM'24)	2024				https://ictam24.univ-setif.dz/index.php?lang=en
	DFT and Experiment study of metastable phase (Mo _{0.24} Cr _{0.76}) _{0.4} Al _{0.32} B _{0.28}	Sarra ELGUEROUI Badis BENNECER Fouad KERAMSI	First international Seminar in Materials and Engineering Structures (ISMES'2024)	2024				https://ismes-24.sciencesconf.org/
	Ab initio calculation of the new MAX phases	Badis BENNECER ELGUEROUI Sarra	1st International Conference on Technological Applications of Materials (ICTAM'24)	2024				https://ictam24.univ-setif.dz/index.php?lang=en