

# Université Ferhat ABBAS Sétif 1

## Production scientifique de l'année 2022

(619 Publications)

- 1  Trans-Bis(2,2'-dipyridylamine-κ2N,N')bis(1,1,3,3-Tetracyano-2-ethoxypropenido-κN)copper(II) Saadallah, Y., Setifi, Z., Geiger, D.K., (...), Satour, A., Setifi, F. 2022 [IUCrData](#) [7,x221180](#)
- 2  MICROSTRUCTURE AND ELECTRICAL PROPERTIES OF CaCO<sub>3</sub>-DOPED ZNO- (BI<sub>2</sub>O<sub>3</sub>, SB<sub>2</sub>O<sub>3</sub>) BASED VARISTOR CERAMICS | [MICROSTRUCTURE ET PROPRIETES ELECTRIQUES DES CÉRAMIQUES DE VARISTANCES À BASE DE ZNO- (BI<sub>2</sub>O<sub>3</sub>, SB<sub>2</sub>O<sub>3</sub>) DOPÉES AU CaCO<sub>3</sub>] Kharchouche, F., Zebar, A. 2022 [Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique](#) [67\(4\), pp. 439-444](#)
- 3  Synthesis, characterization, DFT, antioxidant, antibacterial, pharmacokinetics and inhibition of SARS-CoV-2 main protease of some heterocyclic hydrazones Open Access Adjissi, L., Chafai, N., Benbouguerra, K., (...), Bensouici, C., Chafaa, S. 2022 [Journal of Molecular Structure](#) [1270,134005](#)
- 4  Bis-TTF-Ge derivatives: promising linear and nonlinear optical properties, a theoretical investigation Kamli, D., Hannachi, D., Samsar, D., Chermette, H. 2022 [New Journal of Chemistry](#) [47\(3\), pp. 1234-1246](#)

- 5  [STUDY OF CIGS PSEUDO-HOMOJUNCTION THIN FILM SOLAR CELL USING SCAPS-1D](#) [Boudour, S., Bouchama, I., Laidoudi, S., \(...\), Belgherbi, O., Aziez, S.](#) 2022 [East European Journal of Physics 2022\(4\), pp. 145-152](#)
- 6  [Non-Hermitian Hamiltonian beyond PT symmetry for time-dependent SU\(1,1\) and SU\(2\) systems — Exact solution and geometric phase in pseudo-invariant theory](#) [Amaouche, N., Sekhri, M., Zerimeche, R., Maamache, M., Liang, J.-Q.](#) 2022 [Physics Open 13,100126](#)
- 7  [Effect of Reflectance Index \(RGB\) and Chlorophyll Contents on Yielding of Some Durum Wheat \[Triticum turgidum L. ssp. Durum \(Desf.\) Husn.\] Genotypes Growing under Semi-arid Conditions in Algeria](#) [Frih, B., Guendouz, A., Oulmi, A., \(...\), Bendada, H., Selloum, S.](#) 2022 [Agricultural Science Digest 42\(6\), pp. 696-702](#)
- 8  [Data analytics for crop management: a big data view](#) [Chergui, N., Kechadi, M.T.](#) 2022 [Journal of Big Data 9\(1\),123](#)
- 9  [Development and Optimization of Tamarind Gum-β-Cyclodextrin-g-Poly\(Methacrylate\) pH-Responsive Hydrogels for Sustained Delivery of Acyclovir](#) [Shafiq, K., Mahmood, A., Salem-Bekhit, M.M., \(...\), Al Zahrani, S., Benguerba, Y.](#) 2022 [Pharmaceuticals 15\(12\),1527](#)
- 10  [Differentiating Nitrate Origins and Fate in a Semi-Arid Basin \(Tunisia\) via Geostatistical Analyses and Groundwater Modelling](#) [Ncibi, K., Mastrocicco, M., Colombani, N., \(...\), Hamed, Y., Shuhab, K.](#) 2022 [Water \(Switzerland\) 14\(24\),4124](#)
- 11  [Convexity and Concavity Control of Laser Beam Using a Frequency Modulated Acoustic Wave](#) [Guessoum, A.](#) 2022 [Acoustical Physics 68\(6\), pp. 542-548](#)

- 12  [Effects of alloying chalcopyrite CuTiSe<sub>2</sub> with Na on the electronic structure and thermoelectric coefficients: DFT investigation](#) Djelid, K., Seddik, T., Merabiha, O., (...), Khan, S.A., Bin Omran, S. 2022 [European Physical Journal Plus 137\(12\),1347](#)
- 13  [An Inline V-Band WR-15 Transition Using Antipodal Dipole Antenna as RF Energy Launcher @ 60 GHz for Satellite Applications](#) Open Access Varshney, A., Sharma, V., Elfergani, I., (...), Vujicic, Z., Rodriguez, J. 2022 [Electronics \(Switzerland\) 11\(23\),3860](#)
- 14  [Support vector regression-bald eagle search optimizer-based hybrid approach for short-term wind power forecasting](#) Open Access Amroune, M. 2022 [Journal of Engineering and Applied Science 69\(1\),107](#)
- 16  [In vitro Antioxidant and Anticholinesterase Activities of Extracts from Different Parts of Aristolochia longa L.](#) Beldi, H., Yahia, A., Guettaf, S., Bensouici, C., Gali, L. 2022 [Current Bioactive Compounds 18\(10\),e310322202919, pp. 53-60](#)
- 17  [Evaluation of the in vivo Antioxidant and Antihemolytic Potential of Pega-num harmala Methanolic Seed Extract](#) Djarmouni, M., Adjadj, M., Baghiani, A. 2022 [Current Bioactive Compounds 18\(10\),e190422203782, pp. 61-66](#)
- 18  [A scalable time-division-based emergency messages broadcast scheme for connected and autonomous vehicles in urban environment](#) Guesmia, S., Semchedine, F., Djahel, S. 2022 [Vehicular Communications 38,100544](#)

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| <b>19</b> | <input type="checkbox"/> <u>Combined Jones and Mueller matrix method for the evaluation the optical rotation and circular dichroism in chiral medium</u>   | <u>Bakhouche, B., Moussaoui, H., Bendada, H.</u>                                   | 2022 | <u>Optik</u><br><u>271,170219</u>  |
| <b>20</b> | <input type="checkbox"/> <u>Ab initio prediction of half-metallicity in the NaMnZ<sub>2</sub> (Z = S, Se, Te) ternary layered compounds</u>  | <u>Ghermoul, N., Benmakhlouf, A., Faid, F., (...), Bentabet, A., Galanakis, I.</u> | 2022 | <u>Computational Condensed Matter</u><br><u>33,e00754</u>                            |
| <b>21</b> | <input type="checkbox"/> <u>The impact of functionals on BiGaO<sub>3</sub> structural, electronic, optical and thermoelectric properties</u>   | <u>Bouferrache, K., Krache, L., Ghebouli, M.A., (...), Chihi, T., Gueridi, B.</u>  | 2022 | <u>Chemical Physics Impact</u><br><u>5,100110</u>                                    |
| <b>22</b> | <input type="checkbox"/> <u>Corrigendum to “Effect of oxygen content on structural and optoelectronic properties of ZnS<sub>1-x</sub>O<sub>x</sub> alloy in the wurtzite structure” Solid State Communications 354 (2022) 114897 (Solid State Communications (2022) 354, (S003810982200223X), (10.1016/j.ssc.2022.114897))</u> | <u>Saoucha, S.A., Bouchama, I., Alomairy, S., (...), Ghebouli, B., Fatmi, M.</u>   | 2022 | <u>Solid State Communications</u><br><u>357,114966</u>                               |
| <b>23</b> | <input type="checkbox"/> <u>Inrush Current Reduction by a Point-on-wave Energization Strategy and Sequential Phase Shifting in Three-Phase Transformer</u>   | <u>Yahiou, A., Mellah, H., Bayadi, A.</u>  | 2022 | <u>International Journal of Engineering Transactions C: Aspects</u><br><u>35(12)</u> |
| <b>24</b> | <input type="checkbox"/> <u>Role of structural defects on the magnetic properties of annealed Fe<sub>56</sub>Pd<sub>44</sub> thin films upon development of the ordered L1<sub>0</sub> phase</u>   | <u>Bahamida, S., Fnidiki, A., Coisson, M., (...), Tiberto, P., Boudissa, M.</u>    | 2022 | <u>Journal of Magnetism and Magnetic Materials</u><br><u>563,169991</u>              |

- 25  Numerical study of high-efficiency CIGS solar cells by inserting a BSF  $\mu\text{-Si:H}$  layer Zouache, R., Bouchama, I., Saidani, O., Djedoui, L., Zaidi, E. 2022 Journal of Computational Electronics 21(6), pp. 1386-1395
- 26  Maximal regularity for semilinear non-autonomous evolution equations in temporally weighted spaces  
Open Access Hossni, T., Mahdi, A. 2022 Arabian Journal of Mathematics 11(3), pp. 539-547
- 27  Magnetic field effect on nanoscaled water: Structural and optical investigations Al-Douri, Y., Hassan, S.M., Bouhemadou, A., El-Rehim, A.F.A. 2022 Journal of Physics and Chemistry of Solids 171,110981
- 28  Effect of 5d state-based full-Heusler alloys on the structural, electronic and magnetic properties of new half metallic ferromagnetism Nour-eddine, B., Belkharroubi, F., Ameri, I., (...), El-Rehim, A.F.A., Bouhemadou, A. 2022 Materials Today Communications 33,104277
- 29  Influence of CYP2D6, CYP2C19 and CYP3A5 polymorphisms on plasma levels of tamoxifen metabolites in Algerian women with ER+ breast cancer  
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| <b>30</b> | <input type="checkbox"/> <u>Coexistence of pulmonary hydatid cyst and tuberculosis in a child: a case report</u><br>Open Access   | <u>Haif, A., Achouri, D., Bougharnout, H., (...), Bendecheche, B., Soualili, Z.</u> | 2022 | <u>Annals of Pediatric Surgery</u><br><u>18(1),60</u>  |
| <b>31</b> | <input type="checkbox"/> <u>Characterization of Material Transfer in a Punch-Sheet Metal Contact in Bi-Punching of Hardened and Annealed Steels</u>                         | <u>Zahri, A., Khennafi-Benghalem, N.</u>  | 2022 | <u>Transactions of the Indian Institute of Metals</u><br><u>75(12), pp. 3119-3126</u>                                    |
| <b>32</b> | <input type="checkbox"/> <u>Fast Terminal Synergetic Control for Maximum Power Point Tracking of Stand-Alone Photovoltaic System</u>  | <u>Ayat, R., Bouafia, A., Gaubert, J.-P.</u>  | 2022 | <u>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</u><br><u>46(4), pp. 1099-1109</u> |
| <b>33</b> | <input type="checkbox"/> <u>A Wake-up Radio-Based Energy-Efficient Multi-Hop Clustering Protocol for WSNs</u>   | <u>Aouabed, R., Semchedine, F., Hamdi-Cherif, A.</u>                                | 2022 | <u>Wireless Personal Communications</u><br><u>127(4), pp. 3321-3346</u>  |
| <b>34</b> | <input type="checkbox"/> <u>Optimized management of reactive power reserves of transmission grid-connected photovoltaic plants driven by an IoT solution</u><br>Open Access | <u>Habib, M., Gram, A., Harrag, A., Wang, Q.</u>                                    | 2022 | <u>International Journal of Electrical Power and Energy Systems</u><br><u>143,108455</u>                                 |
| <b>35</b> | <input type="checkbox"/> <u>Coexistence of limit cycles in a septic planar differential system enclosing a non-elementary singular point, using Riccati equation</u>        | <u>Allaoua, R., Cheurfa, R., Bendjeddou, A.</u>                                     | 2022 | <u>Sao Paulo Journal of Mathematical Sciences</u><br><u>16(2), pp. 997-1006</u>  |

- 36** [Analysis of gyrobianisotropic media effect on the input impedance, field distribution and mutual coupling of a printed dipole antenna](#) [Open Access](#) [Bouknia, M.L., Zebiri, C., Sayad, D., \(...\), Falcone, F., Limiti, E.](#) 2022 [Scientific Reports 12\(1\),10355](#)
- 37** [Gyrotropic reciprocal bianisotropic metamaterial printed dipole antenna: Investigation of negative input impedance and mutual coupling](#) [Open Access](#) [Zebiri, C., Bouknia, M.L., Sayad, D., \(...\), Desai, A., Rodriguez, J.](#) 2022 [Alexandria Engineering Journal 61\(12\), pp. 11677-11685](#)
- 38** [On a nonlinear elasticity problem with friction and Sobolev spaces with variable exponents](#) [Open Access](#) [Boukrouche, M., Merouani, B., Zoubai, F.](#) 2022 [Fixed Point Theory and Algorithms for Sciences and Engineering 2022\(1\),14](#)
- 39** [Ab-initio Study of structural, elastic, electronic and optical properties of hexahalometallate single crystals K<sub>2</sub>XBr<sub>6</sub> \(X = Se, Pt\)](#) [Open Access](#) [Naceur, Y., Bourbaba, H., Ghebouli, M.A., \(...\), Fatmi, M., Alomairy, S.](#) 2022 [Scientific Reports 12\(1\),8345](#)
- 40** [The magnetic and thermoelectric properties of Co- and Mn-doped CsPbI<sub>3</sub>](#) [Berri, S., Bouarissa, N.](#) 2022 [Emergent Materials 5\(6\), pp. 1859-1869](#)
- 41** [First principle analysis of structural, electronic, optical, and thermoelectric characteristics of Ba<sub>3</sub>CaTa<sub>2</sub>O<sub>9</sub> complex perovskite](#) [Berri, S.](#) 2022 [Emergent Materials 5\(6\), pp. 1849-1857](#)

- 42  First-principle calculations to investigate structural, electronic, optical, thermodynamic, and thermoelectric properties of ABO<sub>3</sub> (A=Cs, Rb and B= Ta, Nb) compounds Berri, S., Bouarissa, N. 2022 Emergent Materials 5(6), pp. 1831-1847
- 43  Hybrid adaptive MAC scheme for the broadcast of vehicular safety beacons Amira, B. 2022 International Journal of Communication Systems 35(17),e5332
- 44  Solvothermal synthesis and crystal structures of two new cadmium coordination polymers containing polynitrile ligands Open Access Setifi, F., Setifi, Z., Al-Douh, M.H., (...), Glidewell, C., Batsanov, A.S. 2022 Acta Crystallographica Section E: Crystallographic Communications 78, pp. 1238-1243
- 45  Corrigendum to “Effect of oxygen content on structural and optoelectronic properties of ZnS<sub>1-x</sub>O<sub>x</sub> alloy in the wurtzite structure” [Solid State Commun. 354 (2022) 114897] (Solid State Communications (2022) 354, (S003810982200223X), (10.1016/j.ssc.2022.114897)) Saoucha, S.A., Bouchama, I., Alomairy, S., (...), Ghebouli, B., Fatmi, M. 2022 Solid State Communications 356,114967



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| <input type="checkbox"/><br><b>46</b> | <u>Molecular-based artificial neural network for predicting the electrical conductivity of deep eutectic solvents</u>   | Boublia, A., Lemaoui, T., Abu Hatab, F., (...), Benguerba, Y., AlNashef, I.M.  | 2022 | <u>Journal of Molecular Liquids</u><br>366,120225           |
| <input type="checkbox"/><br><b>47</b> | <u>New phosphinic and phosphonic acids: Synthesis, antidiabetic, anti-Alzheimer, antioxidant activity, DFT study and SARS-CoV-2 inhibition</u><br>Open Access   | Elkolli, M., Chafai, N., Chafaa, S., (...), Bensouici, C., Hellal, A.          | 2022 | <u>Journal of Molecular Structure</u><br>1268,133701        |
| <input type="checkbox"/><br><b>48</b> | <u>Decrypting phytomicrobiome of the neurotoxic actinorhizal species, Coriaria myrtifolia, and dispersal boundary of Frankia cluster 2 in soil outward compatible host rhizosphere</u><br>Open Access | Swanson, E., Sbissi, I., Ktari, A., (...), Tisa, L.S., Gtari, M.               | 2022 | <u>Frontiers in Microbiology</u><br>13,1027317              |
| <input type="checkbox"/><br><b>49</b> | <u>External Confined Concrete Cylinders Behavior under Axial Compression Using CFRP Wrapping</u><br>Open Access   | Karouche, A., Hebbache, K., Belebchouche, C., (...), Kessal, O., Czarnecki, S. | 2022 | <u>Materials</u><br>15(22),8232                             |
| <input type="checkbox"/><br><b>50</b> | <u>DEVELOPMENT of AN ANODE BASED on PALLADIUM DEPOSITED on A CONDUCTIVE POLYMER for GLUCOSE OXIDATION</u>   | Chikouche, I., Dehchar, C., Zouaoui, A., Chia, A., Cherora, Z.                 | 2022 | <u>Surface Review and Letters</u><br>29(11),2250143         |
| <input type="checkbox"/><br><b>51</b> | <u>A Review on Gypsum-Based Composites Reinforced With Palm Fibers in Construction Applications</u>   | Haba, B., Benali, F., Jawaid, M., Leão, A.L.                                   | 2022 | <u>International Journal of Thermophysics</u><br>43(11),164 |

- 52  [Synthesis and physicochemical characterization of new calcined layered double hydroxide Mg Zn Co Al-CO<sub>3</sub>; classical modeling and statistical physics of nitrate adsorption](#) [Open Access](#) Elhachemi, M., Chemat-Djenni, Z., Chebli, D., Bouguettoucha, A., Amrane, A. 2022 [Inorganic Chemistry Communications 145,109549](#)
- 53  [Structural, magnetic, and optoelectronic properties of new ferromagnetic semiconductors Cd<sub>0.75</sub>Os<sub>0.25</sub>S and Cd<sub>0.75</sub>Ir<sub>0.25</sub>S: Insight from DFT computations](#) Boudjelal, M., Batouche, M., Seddik, T., (...), Bouhemadou, A., Bin Omran, S. 2022 [Optical and Quantum Electronics 54\(11\),716](#)
- 54  [Flatness tracking control scheme of rehabilitation exoskeleton robot with dynamic uncertainties](#) Bououden, S., Brahmi, B., Rahman, M.H., Saad, M. 2022 [Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering 236\(10\), pp. 1845-1864](#)
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- 56  [Thermoelectric properties of A<sub>2</sub>BCl<sub>6</sub>: A first principles study](#) Berri, S. 2022 [Journal of Physics and Chemistry of Solids 170,110940](#)
- 57  [NH<sub>4</sub>Cl and KCl effect on the structural, morphological, optical and electrochemical properties of Cu<sub>2</sub>O nanoparticles and Cu<sub>2</sub>O nanostructures, galvanostatically electrodeposited](#) Aloui, M., Mentar, L., Beniaiche, A., Azizi, A. 2022 [Journal of Solid State Chemistry 315,123435](#)

- 58** [Automatic segmentation of thoracic CT images using three deep learning models | \[Segmentation automatique d'images CT thoraciques à l'aide de trois modèles basés sur l'apprentissage profond\]](#) Khalal, D.M., Behouch, A., Azizi, H., Maalej, N. 2022 [Cancer/Radiotherapie 26\(8\), pp. 1008-1015](#)
- 59** [Implementational Aspects of Various Feeding Techniques for mmWave 5G Antennas](#) Karthikeya, G.S., Magray, M.I., Zebiri, C., Tarng, J.H., Koul, S.K. 2022 [Arabian Journal for Science and Engineering 47\(11\), pp. 14731-14744](#)
- 60** [Enhanced 2D Photonic Crystal Sensor for High Sensitivity Sulfuric Acid \(H2SO4\) and Hydrogen Peroxide \(H2O2\) Detection](#) Zegadi, R., Zegadi, A., Zebiri, C., (...), Bouknia, M.L., Bendjedi, H. 2022 [Silicon 14\(16\), pp. 11001-11006](#)
- 61** [Experimental validation of advanced SP-SAF based on intelligent controllers for power quality enhancement](#) Open Access Aissa, O., Gherouat, O., Babes, B., (...), Alqurashi, A., Ghoneim, S.S.M. 2022 [Energy Reports 8, pp. 3018-3029](#)
- 62** [Groups with some restrictions on non-Baer subgroups](#) Badis, A., Trabelsi, N. 2022 [Ricerche di Matematica 71\(2\), pp. 681-687](#)
- 63** [Pseudo- PT symmetric Dirac equation: Effect of a new mean spin angular momentum operator on Gilbert damping](#) Open Access Bouguerra, Y., Mehani, S., Bechane, K., Maamache, M., Hervieux, P.-A. 2022 [Journal of Physics A: Mathematical and Theoretical 55\(42\),425302](#)

- 64** New insights on the adsorption of Cl-Reactive Red 141 dye using activated carbon prepared from the ZnCl<sub>2</sub>-treated waste cotton fibers: Statistical physics, DFT, COSMO-RS, and AIM studies Behloul, H., Ferkous, H., Bougdah, N., (...), Jeon, B.-H., Benguerba, Y. 2022 Journal of Molecular Liquids 364,119956
- 65** Quantum dynamics for general time-dependent three coupled oscillators based on an exact decoupling Hassoul, S., Menouar, S., Benseridi, H., Choi, J.R. 2022 Physica A: Statistical Mechanics and its Applications 604,127755
- 66** Rational design of NiFe alloys for efficient electrochemical hydrogen evolution reaction: effects of Ni/Fe molar ratios Open Access Messaoudi, Y., Belhadj, H., Khelladi, M.R., Azizi, A. 2022 RSC Advances 12(45), pp. 29143-29150
- 67** A Non-Cooperative Distributed Model Predictive Control Using Laguerre Functions for Large-Scale Interconnected Systems Open Access Menighed, K., Yame, J.J., Chekakta, I. 2022 Journal Europeen des Systemes Automatises 55(5), pp. 555-572
- 68** Interactive Hybrid Recommendation of Pedagogical Resources Open Access Mediani, C. 2022 Ingenierie des Systemes d'Information 27(5), pp. 695-704

- 69  A facile route to improve compatibilization of low density polyethylene/poly ( $\epsilon$ -caprolactone) blends Bouhrara, H., Djellali, S., Haddaoui, N., (...), Supiot, P., Maschke, U. 2022 Polymer Degradation and Stability 204,110111
- 70  Antioxidant Activity and Inhibitory Effect of Curcumin on Some Enzymes Involved in Several Diseases: Acetylcholinesterase, Butyrylcholinesterase,  $\alpha$ -glucosidase and Tyrosinase Bisset, S., Sobhi, W., Bensouici, C., Khenchouche, A. 2022 Current Enzyme Inhibition 18(3), pp. 172-179
- 71  Evaluation of the Subacute Toxic Effects of the Alkaloids of the Seeds of Peganum harmala L in the Liver, Kidney and Ovary of Female Rats Nadia, M., Rima, A., Rima, R., Khouloud, A., Abdelouahab, B. 2022 Tropical Journal of Natural Product Research 6(10), pp. 1632-1637
- 72  Efficiency of Numerical Images Analysis in Selection of Durum Wheat [Triticum turgidum (L.) ssp. durum (Desf.) Husn.] Genotypes Growing under Semi-arid Conditions in Algeria Frih, B., Oulmi, A., Guendouz, A. 2022 Agricultural Science Digest 42(5), pp. 548-554  
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- 73  Spin-Polarized Study of the Structural, Optoelectronic, and Thermoelectric Properties of the Melilite-Type Gd<sub>2</sub>Be<sub>2</sub>GeO<sub>7</sub> Compound Chiker, F., Baki, N., Khachai, Y.A., (...), Kanoun, M.B., Goumri-Said, S. 2022 Crystals 12(10),1397  
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- 74  Critical Evaluation of Biocontrol Ability of Bayoud Infected Date Palm Phyllospheric Bacillus spp. Suggests That In Vitro Selection Does Not Guarantee Success in Planta Boulahouat, S., Cherif-Silini, H., Silini, A., (...), Alenezi, F.N., Belbahri, L. 2022 Agronomy 12(10),2403

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- 75** [Electro-Acoustic Properties of Scandium-Doped Aluminum Nitride \(ScxAl1-xN\) Material and its Application to Phononic Crystal-Coupled SAW Devices](#) Arab, F., Kanouni, F., Serhane, R., (...), Özer, Z., Bouamama, K. 2022 [Crystals](#) [12\(10\),1431](#)  
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- 76** [Improvement of Surface Acoustic Wave Delay Lines Using c-Axis Tilted AlScN Thin Film](#) Kanouni, F., Laidoudi, F., Amara, S., Bouamama, K. 2022 [Acoustical Physics](#) [68\(5\), pp. 447-458](#)
- 77** [In Silico Study for Algerian Essential Oils as Antimicrobial Agents against Multidrug-Resistant Bacteria Isolated from Pus Samples](#) Aouf, A., Bouaouina, S., Abdelgawad, M.A., Abourehab, M.A.S., Farouk, A. 2022 [Antibiotics](#) [11\(10\),1317](#)  
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- 78** [Heavy metal contamination and exposure risk assessment via drinking groundwater in Ain Azel territory, north-eastern Algeria](#) Kada, H., Demdoun, A., Baali, F., Aouati, H., Eddine, H.D. 2022 [Sustainable Water Resources Management](#) [8\(5\),163](#)
- 79** [Optimized servo-speed control of wind turbine coupled to doubly fed induction generator](#) Mansouri, A., Krim, F. 2022 [International Journal of Electrical and Computer Engineering](#) [12\(5\), pp. 4688-4699](#)  
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- 80** [Theoretical design of a 2D photonic crystal resonator highly sensitive for temperature sensing](#) Zegadi, R., Zegadi, A., Zebiri, C. 2022 [Optical and Quantum Electronics](#) [54\(10\),678](#)

- 81  [A mathematical model to predict the performance of the secondary clarifier of a municipal wastewater treatment plants](#) [Bakiri, Z., Nacef, S.](#) 2022 [Journal of Water Process Engineering 49,103106](#)
- 82  [Removal of Pb \(II\) from aqueous solutions by new layered double hydroxides adsorbent MgCuCaAl-LDH: Free Gibbs energy, entropy and internal energy studies](#) [Mahmoudi, S., Chemat-Djenni, Z., Bouguettoucha, A., \(...\), Chebli, D., Gil, A.](#) 2022 [Inorganic Chemistry Communications 144,109910](#)
- 83  [Addition of Organo-Modified Nanoclay for Tuning the Microstructure, Thermal Stability, and Biodegradability of Poly\(lactic acid\)/Polycarbonate Immiscible Blends](#) [Nadjat Chelghoum, Mayouf, I., Larous, A., \(...\), Fois, M., Haddaoui, N.](#) 2022 [Polymer Science - Series A 64\(5\), pp. 519-531](#)
- 84  [Effect of oxygen content on structural and optoelectronic properties of ZnS1- xOx alloy in the wurtzite structure](#) [Saoucha, S.A., Bouchama, I., Alomairy, S., \(...\), Ghebouli, B., Fatmi, M.](#) 2022 [Solid State Communications 354,114897](#)
- 85  [Ag-MnO2 composite materials \(ferns-like structures\) for hydrogen peroxide reduction in alkaline medium](#) [Lamiri, L., Tounsi, A., Hamza, D.E., \(...\), Maouche, N., Nessark, B.](#) 2022 [Inorganic Chemistry Communications 144,109853](#)
- 86  [Prevalence of Eimeria species, detected by ITS1-PCR, in broiler poultry farms located in seven provinces of northeastern Algeria](#) [Djemai, S., Ayadi, O., Khelifi, D., Bellil, I., Hide, G.](#) 2022 [Tropical Animal Health and Production 54\(5\),250](#)  
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