

Université Ferhat ABBAS Sétif 1

Production scientifique de l'année 2021

(578 Publications)

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| 1 | <input type="checkbox"/> <u>DFT/molecular scale, MD simulation and assessment of the eco-friendly anti-corrosion performance of a novel Schiff base on XC38 carbon steel in acidic medium</u> | <u>Boulechfar, C., Ferkous, H., Djellali, S., (...), Jeon, B.-H., Benguerba, Y.</u> | 2021 <u>Journal of Molecular Liquids</u>
344,117874 |
| 2 | <input type="checkbox"/> <u>Liquification of 2,2,4-trimethyl-1,3-pentanediol into hydrophobic eutectic mixtures: A multi-criteria design for eco-efficient boron recovery</u> | <u>Almustafa, G., Darwish, A.S., Lemaoui, T., (...), Arafat, H.A., AlNashef, I.</u> | 2021 <u>Chemical Engineering Journal</u>
426,131342 |
| 3 | <input type="checkbox"/> <u>Pressure effects on the structural, elastic, magnetic and thermodynamic properties of Mn₂AlC and Mn₂SiC MAX phases</u> | <u>Azzouz-Rached, A., Hadi, M.A., Rached, H., (...), Rached, D., Bouhemadou, A.</u> | 2021 <u>Journal of Alloys and Compounds</u>
885,160998 |
| 4 | <input type="checkbox"/> <u>What can SVAR models tell us about the impact of Public Expenditure Shocks on macroeconomic variables in Algeria? A Slight Hint to the COVID-19 Pandemic</u>
<i>Open Access</i> | <u>Fatih, C.</u> | 2021 <u>Folia Oeconomica Stetinensia</u>
21(2), pp. 21-37 |
| 5 | <input type="checkbox"/> <u>The Effect of Cereal-legume Intercropping Systems on the Cereal Grain Yield under Semi-arid Conditions</u>
<i>Open Access</i> | <u>Benider, C., Laour, S., Madani, T., Gundouz, A., Kelaleche, H.</u> | 2021 <u>Agricultural Science Digest</u>
41(4),D-346, pp. 610-614 |

- 6 [Facial Expressions Recognition Based on Delaunay Triangulation of Landmark and Machine Learning](#) [Ayeche, F.](#), [Alti, A.](#) 2021 [Traitement du Signal](#) 38(6), pp. 1575-1586
Open Access
- 7 [A Real Expectation Value of the Time-dependent Non-Hermitian Hamiltonians](#) [Kecita, F.](#), [Bounames, A.](#), [Maamache, M.](#) 2021 [Physica Scripta](#) 96(12),125265
Open Access
- 8 [Dynamic frictional thermoviscoelastic contact problem with normal compliance and damage](#) [Chadi, K.](#), [Selmani, M.](#) 2021 [Bulletin of the Belgian Mathematical Society - Simon Stevin](#) 28(2), pp. 195-215
- 9 [Hemi-ellipsoidal microlensed fiber based on polishing and polymer technology](#) [Boulaiche, N.](#), [Rochard, P.](#), [Guessoum, A.](#), [Demagh, N.-E.](#), [Thual, M.](#) 2021 [Engineering Research Express](#) 3(4),045051
Open Access
- 10 [Theoretical study of physical properties of \$Ba_3B\(Nb,Ta\)_2O_9\$ \(B = Mg, Ca, Sr, Cd, Hg, Zn, Fe, Mn, Ni, Co\) perovskites](#) [Berri, S.](#) 2021 [Computational Condensed Matter](#) 29,e00595
- 11 [Evaluation of Natural Montmorillonite Clay for Removal of \$Cd^{2+}\$ from Aqueous Solution in a Batch Adsorption System](#) [Boudjemaa, S.](#) 2021 [Russian Journal of Physical Chemistry A](#) 95(13), pp. 2653-2662
- 12 [On rapidly oscillating solutions of a nonlinear elliptic equation](#) [Kadem, H.E.](#), [Bendaas, S.](#) 2021 [Mathematica Slovaca](#) 71(6), pp. 1427-1440

- 13** Root trait diversity in field grown durum wheat and comparison with seedlings
Open Access Boudiar, R., Cabeza, A., Fernández-Calleja, M., (...), Mekhlouf, A., Igartua, E. 2021 Agronomy 11(12),2545
- 14** Bacillus velezensis: A treasure house of bioactive compounds of medicinal, biocontrol and environmental importance
Open Access Alenezi, F.N., Slama, H.B., Bouket, A.C., (...), Oszako, T., Belbahri, L. 2021 Forests 12(12),1714
- 15** Crystal structure of 1,1'-(pyridine-2,6-diyl)bis [N-(pyridin-2-ylmethyl)methanaminium] dichloride dihydrate
Open Access Merabet, L., Tasse, M., Mallet-Ladeira, S., Kaboub, L., Malfant, I. 2021 Acta Crystallographica Section E: Crystallographic Communications 77, pp. 1296-1298
- 16** Study on graphene-like monolayer ZnS_{1-x}O_x: structural and optoelectronic properties Bouguerra, K., Aksas, A., Gueddim, A., Zerroug, S., Bouarissa, N. 2021 Theoretical Chemistry Accounts 140(12),161
- 17** Hyperchaos Synchronization Using T-S Fuzzy Model Based Synergetic Control Theory
Open Access Behih, K., Saadi, S.E., Bouchama, Z. 2021 International Journal of Intelligent Engineering and Systems 14(6), pp. 588-595
- 18** A strategy for enhancing heat transfer in phase change material-based latent thermal energy storage unit via nano-oxides addition: A study applied to a shell-and-tube heat exchanger Chibani, A., Merouani, S., Benmoussa, F., (...), Jeon, B.-H., Benguerba, Y. 2021 Journal of Environmental Chemical Engineering 9(6),106744
- 19** On the asymptotic behavior of solutions of anisotropic viscoelastic body
Open Access Letoufa, Y., Benseridi, H., Boulaaras, S., Dilmi, M. 2021 Boundary Value Problems 2021(1),89

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| 20 | <input type="checkbox"/> <u>Evaluation of the quality of groundwater for its appropriateness for irrigation purposes using Water Quality Index (WQI), Mchira-Teleghma aquifer case study, northeastern Algeria</u> | <u>Mohamadi, A., Demdoug, A., Bouaicha, F., Menani, M.R.</u> | 2021 <u>Sustainable Water Resources Management</u>
7(6),97 |
| 21 | <input type="checkbox"/> <u>Effect of the stearic acid-modified TiO₂ on PLA nanocomposites: Morphological and thermal properties at the microscopic scale</u> | <u>Deghiche, A., Haddaoui, N., Zerriouh, A., (...), Erto, A., Benguerba, Y.</u> | 2021 <u>Journal of Environmental Chemical Engineering</u>
9(6),106541 |
| 22 | <input type="checkbox"/> <u>Green extraction of volatile fatty acids from fermented wastewater using hydrophobic deep eutectic solvents</u> | <u>Darwish, A.S., Warrag, S.E.E., Lemaoui, T., (...), Rodríguez, J., Alamoodi, N.</u> | 2021 <u>Fermentation</u>
7(4),226 |
| 23 | <input type="checkbox"/> <u>A full mechanistic and kinetics analysis of carbon tetrachloride (CCl₄) sono-conversion: Liquid temperature effect</u> | <u>Dehane, A., Merouani, S., Hamdaoui, O., (...), Jeon, B.-H., Benguerba, Y.</u> | 2021 <u>Journal of Environmental Chemical Engineering</u>
9(6),106555 |
| 24 | <input type="checkbox"/> <u>Thickness effect on structural, optoelectronic properties and photocatalytic activity of low-cost spin-coated In₂O₃ films</u> | <u>Ghemid, M., Gueddaoui, H., Hemissi, M., Khelladi, M.R., Bourzami, R.</u> | 2021 <u>Chemical Physics Letters</u>
784,139089 |
| 25 | <input type="checkbox"/> <u>Experimental and theoretical evaluation of the adsorption process of some polyphenols and their corrosion inhibitory properties on mild steel in acidic media</u> | <u>Meriem, Z., Hana, F., Souad, D., (...), Boulechfar, C., Benguerba, Y.</u> | 2021 <u>Journal of Environmental Chemical Engineering</u>
9(6),106482 |
| 26 | <input type="checkbox"/> <u>Optimized data gathering in a heterogeneous Internet of Things network</u> | <u>Hamidouche, R., Aliouat, Z., Abba Ari, A.A., Gueroui, A.M.</u> | 2021 <u>International Journal of Communication Systems</u>
34(18),e4998 |

- 27 A primal-dual interior point method for p_* (κ)-hlcp based on a class of parametric kernel functions
Open Access Hazzam, N., Kebbiche, Z. 2021 Numerical Algebra, Control and Optimization 11(4), pp. 513-531
- 28 A General Stability Result for a Viscoelastic Moore–Gibson–Thompson Equation in the Whole Space Bounadja, H., Messaoudi, S. 2021 Applied Mathematics and Optimization 84, pp. 509-521
- 29 Technological study of polishing animated by a vibratory movement for BK7 glass Mounir, H., Aliouane, T., Kerdja, L. 2021 Optik 247,167923
- 30 Identification of Nonlinear Synchronous Generator Parameters Using Stochastic Fractal Search Algorithm Bendaoud, E., Radjeai, H., Boutalbi, O. 2021 Journal of Control, Automation and Electrical Systems 32(6), pp. 1639-1651
- 31 Evaluation of damage within sandwich honeycomb panels subjected to impact fatigue loading Oubouزيد, A., Keskes, B., Vieille, B. 2021 Journal of Composite Materials 55(30), pp. 4563-4574
- 32 Predicting potential habitat suitability of Quercus suber L. in Algeria under climate change scenarios Laala, A., Alatou, D., Adimi, A. 2021 African Journal of Ecology 59(4), pp. 976-987
- 33 Lives versus Livelihoods? Perceived economic risk has a stronger association with support for COVID-19 preventive measures than perceived health risk
Open Access Nisa, C.F., Bélanger, J.J., Faller, D.G., (...), Zúñiga, C., Leander, N.P. 2021 Scientific Reports 11(1),9669
- 34 Spatial variation of groundwater vulnerability to nitrate pollution under excessive fertilization using index overlay method in central Tunisia (Sidi Bouzid basin)* Ncibi, K., Hadji, R., Hajji, S., (...), Hamdi, M., Hamed, Y. 2021 Irrigation and Drainage 70(5), pp. 1209-1226

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| <p><input type="checkbox"/> 35 <u>Affective Interpersonal Touch in Close Relationships: A Cross-Cultural Perspective</u>
<i>Open Access</i></p> | <p>Sorokowska, A., Saluja, S., Sorokowski, P., (...), Zupančič, M., Croy, I.</p> | <p>2021 <u>Personality and Social Psychology Bulletin</u> 47(12), pp. 1705-1721</p> |
| <p><input type="checkbox"/> 36 <u>Ab-initio calculations on structural, electronic, half-metallic and optical properties of Co-, Fe-, Mn- and Cr-doped Ba₂LuTaO₆</u></p> | <p>Berri, S.</p> | <p>2021 <u>Pramana - Journal of Physics</u> 95(1),38</p> |
| <p><input type="checkbox"/> 37 <u>Temperature effect to investigate optical and structural properties of AZO nanostructures for optoelectronics</u></p> | <p>Gherab, K., Al-Douri, Y., Hashim, U., (...), Bouhemadou, A., Ameri, M.</p> | <p>2021 <u>Bulletin of Materials Science</u> 44(1),39</p> |
| <p><input type="checkbox"/> 38 <u>Motion planning and control of nonholonomic mobile robot using flatness and fuzzy logic concepts</u></p> | <p>Khesrani, S., Hassam, A., Boutalbi, O., Boubezoula, M.</p> | <p>2021 <u>International Journal of Dynamics and Control</u> 9(4), pp. 1660-1671</p> |
| <p><input type="checkbox"/> 39 <u>Fuzzy teaching learning based optimization approach for solving the QoS-aware web service selection problem in uncertain environments</u></p> | <p>Seghir, F., Khababa, G.</p> | <p>2021 <u>Journal of Ambient Intelligence and Humanized Computing</u> 12(12), pp. 10667-10697</p> |
| <p><input type="checkbox"/> 40 <u>Performance assessment of high temperature water-gas-shift reaction for hydrogen generation and its purification in a membrane reactor/separator of hydrogen or of carbon dioxide</u></p> | <p>Eddi, I., Chibane, L.</p> | <p>2021 <u>Chemical Product and Process Modeling</u> 16(4), pp. 261-280</p> |
| <p><input type="checkbox"/> 41 <u>Improving sentiment analysis in Arabic: A combined approach</u>
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- 42 Hybrid filter-wrapper feature selection using whale optimization algorithm: A multi-objective approach Got, A., Moussaoui, A., Zouache, D. 2021 Expert Systems with Applications 183,115312
- 43 Analytical evaluation of frequencies of bidirectional FG thick beams in thermal environment and resting on different foundation Benaberrahmane, I., Mekerbi, M., Bouiadjra, R.B., (...), Tounsi, A., Hussain, M. 2021 Structural Engineering and Mechanics 80(4), pp. 365-375
- 44 Reframing immune-mediated inflammatory diseases Boutrid, N., Rahmoune, H., Schett, G., McInnes, I.B., Neurath, M.F. 2021 New England Journal of Medicine 385(21),e75
- 45 Photovoltaic mono and bifacial module/string electrical model parameters identification and validation based on a new differential evolution bee colony optimizer Hachana, O., Aoufi, B., Tina, G.M., Sid, M.A. 2021 Energy Conversion and Management 248,114667
- 46 Electronic and optical properties of ZnSe by theoretical simulation TB-mBJ (Tran-Blahu modified Becke Johnson) associated to analysis techniques XPS (X-Ray Photoelectron Spectroscopy); REELS (Reflective Electron Energy Loss Spectroscopy) and PLS (Photoluminescence Spectroscopy) Halati, M.S., Benchenane, H., Bouzlama, M., (...), Bensassi, K.B., Baizid, A. 2021 Applied Surface Science 566,150690
- 47 Predicted structural, elastic, electronic and optical properties of inorganic complex chloride and bromide CsInCl₃ and CsInBr₃ Amine Ghebouli, M., Ghebouli, B., Chihi, T., Fatmi, M., Ahmad, S.I. 2021 Materials Science in Semiconductor Processing 135,106033

- 48 Synthesis, X-ray crystallography, Hirshfeld surface analysis, thermal properties and DFT/TD-DFT calculations of a new material hybrid ionic ($C_{10}H_{18}N_2O_8^{2+} \cdot 2ClO_4^- \cdot 4H_2O$) Fellahi, Z., Chenaf-Ait youcef, H., Hannachi, D., (...), Fleutot, S., Bourzami, R. 2021 Journal of Molecular Structure 1244,130955
- 49 A mathematical optimization model for secondary settler *Open Access* Bakiri, Z. 2021 Journal of Physics: Conference Series 2063(1),012029
- 50 Angular distributions in the double ionization of argon by fast electron impact Herbadji, A., Kada, I., Mansouri, A., Cappello, C.D. 2021 Journal of Physics B: Atomic, Molecular and Optical Physics 54(21),215201
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- 52 Chemical Composition, Acetylcholine Esterase and Anti-bacterial Activities of Essential Oils of *Elaeosilenum thapsioides* (Desf.) Maire from Algeria Barbeche, Z., Laouer, H., Erenler, R., (...), Bensouici, C., Akkal, S. 2021 Current Topics in Medicinal Chemistry 21(29), pp. 2610-2619
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- 58 From Absorption to Fluorescence: Case of 3,6-Substituted Coumarin Derivatives Ounissi, A., Benguerba, Y., Ouddai, N., Merouani, H. 2021 Russian Journal of Physical Chemistry A 95(11), pp. 2273-2279
- 59 Investigation of mechanical properties and biodegradability of compatibilized thermoplastic starch/ high impact polystyrene blends reinforced by organophilic montmorillonite El Houda Aouadi, N., Hellati, A., Cherupurakal, N., Guessoum, M., Mourad, A.-H.I. 2021 Polymers and Polymer Composites 29(9), pp. S1113-S1124
- 60 Advice on assistance and protection provided by the Scientific Advisory Board of the Organisation for the Prohibition of Chemical Weapons: Part 3. On medical care and treatment of injuries from sulfur mustard Timperley, C.M., Forman, J.E., Abdollahi, M., (...), Hotchkiss, P.J., Ghanei, M. 2021 Toxicology 463,152967
- 61 A new 4-D hyper chaotic system generated from the 3-D Rössler chaotic system, dynamical analysis, chaos stabilization via an optimized linear feedback control, it's fractional order model Laarem, G. 2021 Chaos, Solitons and Fractals 152,111437

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- 62 Green synthesis, analysis and characterization of $XZnFe_2O_3$ (X=Mg,Co,Ni) quaternary alloys nanoparticles and their potential application for optoelectronics and antibacterial *Open Access* Al-Douri, A.T., Gdoura, R., Al-Douri, Y., Bouhemadou, A., El-Rehim, A.F.A. 2021 Journal of Materials Research and Technology 15, pp. 1487-1495
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- 66 Energy Routing Challenges and Protocols in Energy Internet: A Survey Hebal, S., Harous, S., Mechta, D. 2021 Journal of Electrical Engineering and Technology 16(6), pp. 3197-3212
- 67 Structural, optoelectronic, optical coating and thermoelectric properties of the chalcogenides type Kesterite Ag_2CdSnX_4 (with X=S, Se): A computational insight Mohammedi, H.M., Chiker, F., Khachai, H., (...), Bouhemadou, A., Wang, X. 2021 Materials Science in Semiconductor Processing 134,106031

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- 70 Influence of organoclay filler and dicumyl peroxide (DCP) on the properties of the low-density polyethylene (LDPE)/thermoplastic starch (TPS) blend Smail, D., Chaoui, S. 2021 Polymers and Polymer Composites 29(9), pp. 1599-1611
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- 73 Experimental and theoretical studies of the interaction of ketoprofen in halloysite nanotubes Sid, D., Baitiche, M., Bourzami, R., (...), Gil, A., Boutahala, M. 2021 Colloids and Surfaces A: Physicochemical and Engineering Aspects 627,127136
- 74 Direct imaging of a photonic jet at shaped fiber tips Bouaziz, D., Perrin, S., Hajj, T., (...), Demagh, N.-E., Lecler, S. 2021 Optics Letters 46(20), pp. 5125-5128

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| 75 | <input type="checkbox"/> <u>Biaxial fatigue analysis model under non-proportional phase loading of tensegrity cable domes</u> | Logzit, N., <u>Kebiche, K.</u> | 2021 <u>Engineering Structures</u>
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| 76 | <input type="checkbox"/> <u>Cavity-shaped ligands for asymmetric metal catalysis</u>
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| 77 | <input type="checkbox"/> <u>Unsymmetrical salen nickel (II) complex embracing phenol bridge: X-ray structure, redox investigation, computational calculations, antimicrobial and catalytic activities</u> | Guadouri, H.-A., <u>Merzougui, M., Hannachi, D., Ali, M.A., Ouari, K.</u> | 2021 <u>Journal of Molecular Structure</u>
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| 78 | <input type="checkbox"/> <u>A robust type-2 fuzzy logic-based maximum power point tracking approach for thermoelectric generation systems</u> | Rezk, H., <u>Harrag, A.</u> | 2021 <u>International Journal of Energy Research</u>
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| 79 | <input type="checkbox"/> <u>Microwave assisted synthesis of 4-aminophenol Schiff bases: DFT computations, QSAR/Drug-likeness proprieties and antibacterial screening</u> | Mohamed, M., <u>Abdelakder, H., Abdellah, B.</u> | 2021 <u>Journal of Molecular Structure</u>
1241,130666 |
| 80 | <input type="checkbox"/> <u>Epidemiological and clinical factors associated with spontaneous clearance of hepatitis C virus</u>
<i>Open Access</i> | Guenifi, W., <u>Gasmi, A., Lacheheb, A.</u> | 2021 <u>Middle East Journal of Digestive Diseases</u>
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| 81 | <input type="checkbox"/> <u>Estimation of real seasons in a semi-arid region, Ghardaia, case study</u>
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- 82** Heat stroke impact on reproduction parameters of Holstein cows in a semi-arid zone of Western Algeria | [Impact de l'indice température-humidité sur les paramètres de reproduction de vaches Holsteins en zone semi-aride de l'Ouest algérien] Yerou, H., Zoghlami, M., Madani, T., Benamara, N., Rehal, M. 2021 Livestock Research for Rural Development 33(10)
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- 86** Prevalence of extended-spectrum β -lactamase (ESBL)-producing Enterobacteriaceae in wastewater: A systematic review and meta-analysis *Open Access* Zaatout, N., Bouras, S., Slimani, N. 2021 Journal of Water and Health 19(5), pp. 705-723
- 87** Antioxidant, anti-inflammatory, and analgesic activities of alcoholic extracts of ephedra nebrodensis from eastern algeria | [Doğu cezayir'den ephedra nebrodensis bitkisinin alkol ile hazırlanan ekstrelerinin antioksidan, anti-inflamatuvar ve analjezik aktiviteleri] *Open Access* Hamoudi, M., Amroun, D., Baghiani, A., Khenouf, S., Dahamna, S. 2021 Turkish Journal of Pharmaceutical Sciences 18(5), pp. 574-580

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- 90 Approaches to improving the Quality of Research in Islamic Economics | [مداخل الارتقاء بجودة البحوث في الاقتصاد الإسلامي] Bourakba, C. 2021 Journal of King Abdulaziz University, Islamic Economics 34(3), pp. 197-206
- 91 Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018 Open Access Kinyoki, D., Osgood-Zimmerman, A.E., Bhattacharjee, N.V., (...), Kassebaum, N.J., Hay, S.I. 2021 Nature Medicine 27(10), pp. 1761-1782
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