

# Université Ferhat ABBAS Sétif 1

## Production scientifique de l'année 2019

### (507 Publications)

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|--------------------------------------|---|--|---|
| <input type="checkbox"/><br><b>1</b> | <u>Resource allocation scheme for 5G C-RAN: a Swarm Intelligence based approach</u>   | <u>Ari, A.A.A., Gueroui, A., Titouna, C., Thiare, O., Aliouat, Z.</u>  | 2019 <u>Computer Networks</u><br>165,106957   |
| <input type="checkbox"/><br><b>2</b> | <u>Investigation of some phenolic-type antioxidants compounds extracted from biodiesel as green natural corrosion inhibitors; DFT and molecular dynamic simulation, comparative study</u> | <u>Daouda, D., Douadi, T., Ghobrini, D., Lahouel, N., Hamani, H.</u>   | 2019 <u>AIP Conference Proceedings</u><br>2190,020098   |
| <input type="checkbox"/><br><b>3</b> | <u>Improvement of DTC of Wind Energy Conversion System Based on DSIg using Matrix Converter</u>   | <u>Moati, Y., Katia, K., Mokhtari, K.</u>                              | 2019 <u>Proceedings - 2019 1st International Conference on Sustainable Renewable Energy Systems and Applications, ICSRESA 2019</u><br>9182509 |
| <input type="checkbox"/><br><b>4</b> | <u>Early fault detection of gear system based on Wavelet Packets Transform</u>  | <u>Ayad, M., Rezki, M., Benziane, M., (...), Saoudi, K., Arabi, A.</u> | 2019 <u>Proceedings - 2019 1st International Conference on Sustainable Renewable Energy Systems and Applications, ICSRESA 2019</u><br>9182269 |

- 5  Fixed Switching DTC of DSIM Powered by NPC-Matrix Converter Moati, Y., Katia, K., Mokhtari, K. 2019 Proceedings - 2019 1st International Conference on Sustainable Renewable Energy Systems and Applications, ICSRESA 2019 9182698
- 6  Comparison of the radio-isotopic composition between hot spring water of hammam debagh and its associated deposits Boukhenfouf, W., Boucenna, A. 2019 Radiation Protection Dosimetry 187(3), pp. 369-377
- 7  Optical external efficiency of terahertz quantum cascade laser based on Čerenkov difference frequency generation Hamadou, A., Thobel, J.-L., Lamari, S. 2019 Journal of Nonlinear Optical Physics and Materials 28(4),1950036  
*Open Access*
- 8  A Full-Healing Key Distribution Scheme for Resource-Constrained Devices Messai, S., Messai, M.-L., Seba, H., Aliouat, Z. 2019 6th International Conference on Information and Communication Technologies for Disaster Management, ICT-DM 2019 9032926
- 9  Tracking diffusion pattern based on Salient Tweets Drif, A., Giordano, S. 2019 2019 International Conference on Theoretical and Applicative Aspects of Computer Science, ICTAACS 2019 8988130
- 10  Effect of Copper Sulfate Concentration on the Electrochemical Nucleation Process, Growth and Properties of n-Type Cu<sub>2</sub>O Thin Films Herbadji, A., Bouderbala, I.Y., Mentar, L., Azizi, A. 2019 Russian Journal of Electrochemistry 55(12), pp. 1336-1349

- 11  [Design and implementation of low power consumption wireless sensor node](#)  
*Open Access* Imededdin, D., Salih, A., Medkour, H. 2019 [Telkomnika \(Telecommunication Computing Electronics and Control\)](#) 17(6), pp. 2729-2734
- 12  [Breastfeeding for Primary Prevention of Stroke](#) Boutrid, N., Rahmoune, H., Boutrid, H. 2019 [Journal of the National Medical Association](#) 111(6), pp. 688-690
- 13  [Power system voltage instability risk mitigation via emergency demand response-based whale optimization algorithm](#)  
*Open Access* Amroune, M., Bouktir, T., Musirin, I. 2019 [Protection and Control of Modern Power Systems](#) 4(1),25
- 14  [Contrasting Computational Models of Mate Preference Integration Across 45 Countries](#)  
*Open Access* Conroy-Beam, D., Buss, D.M., Asao, K., (...), Zařková, M., Zupančič, M. 2019 [Scientific Reports](#) 9(1),16885
- 15  [Influence of different polyphenol extracts of Taxus baccata on the corrosion process and their effect as additives in electrodeposition](#) Hanini, K., Merzoug, B., Boudiba, S., (...), Laouer, H., Akkal, S. 2019 [Sustainable Chemistry and Pharmacy](#) 14,100189
- 16  [Antimicrobial secondary metabolites from agriculturally important fungi as next biocontrol agents](#) Keswani, C., Singh, H.B., Hermosa, R., (...), Vinale, F., Sansinenea, E. 2019 [Applied Microbiology and Biotechnology](#) 103(23-24), pp. 9287-9303
- 17  [Low-Cost Photo-Fenton-Like Process for the Removal of Synthetic Dye in Aqueous Solution at Circumneutral pH](#) Manaa, Z., Chebli, D., Bouguettoucha, A., Atout, H., Amrane, A. 2019 [Arabian Journal for Science and Engineering](#) 44(12), pp. 9859-9867

- 18  [Multi optimized SVM classifiers for motor imagery left and right hand movement identification](#) [Mebarkia, K., Reffad, A.](#) 2019 [Australasian Physical and Engineering Sciences in Medicine](#) 42(4), pp. 949-958
- 19  [A study of properties of ZrO<sub>2</sub> thin films deposited by magnetron sputtering under different plasma parameters: Biomedical application](#) [Zegtouf, H., Saoula, N., Azibi, M., \(...\), Khelladi, M.R., Kechouane, M.](#) 2019 [Journal of Electrical Engineering](#) 70(7), pp. 117-121  
*Open Access*
- 20  [Initial Pangean rifting north of the West African Craton: Insights from late Permian U-Pb and <sup>40</sup>Ar/<sup>39</sup>Ar dating of alkaline magmatism from the Eastern Anti-Atlas \(Morocco\)](#) [Najih, A., Montero, P., Verati, C., \(...\), Bea, F., Michard, A.](#) 2019 [Journal of Geodynamics](#) 132,101670  
*Open Access*
- 21  [Influence of silver inclusions on the mechanical behavior of Cu-Ag nanocomposite during nanoindentation: Molecular dynamics study](#) [Abdeslam, S.](#) 2019 [Results in Physics](#) 15,102672  
*Open Access*
- 22  [Worldwide Age at Onset of Female Breast Cancer: A 25-Year Population-Based Cancer Registry Study](#) [Bidoli, E., Virdone, S., Hamdi-Cherif, M., \(...\), Panato, C., Serraino, D.](#) 2019 [Scientific Reports](#) 9(1),14111  
*Open Access*
- 23  [First Brillouin zone-centre phonon frequencies and elastic stiffness of the Ln<sub>2</sub>Hf<sub>2</sub>O<sub>7</sub> \(Ln = La, Nd, Sm and Eu\) pyrochlore](#) [Kushwaha, A.K., Bouhemadou, A., Khenata, R., \(...\), Akbudak, S., Uğur, S.](#) 2019 [Computational Condensed Matter](#) 21,e00428

- 24  A modified direct torque control with minimum torque ripple and constant switching frequency for induction motor drives Hamla, H., Rahmani, L., Belhaouchet, N. 2019 International Transactions on Electrical Energy Systems 29(12),e12120
- 25  Adaptive and Exact Linearization Control of Multicellular Power Converter Based on Shunt Active Power Filter Rouabah, B., Rahmani, L., Toubakh, H., Duviella, E. 2019 Journal of Control, Automation and Electrical Systems 30(6), pp. 1019-1029
- 26  Comparison of some nonlinear functions for describing broiler growth curves of Cobb500 strain Mouffok, C.-E., Semara, L., Ghoulmi, N., Belkasm, F. 2019 Poultry Science Journal 7(1), pp. 51-61
- 27  Compatibilization of biocomposites based on sponge-gourd natural fiber reinforced poly(lactic acid) Rahem, Z., Mayouf, I., Guessoum, M., (...), Douibi, A., Lallam, A. 2019 Polymer Composites 40(12), pp. 4489-4499
- 28  Capacitance performance of NiO thin films synthesized by direct and pulse potentiostatic methods  
*Open Access* Ghalmi, Y., Habelhames, F., Sayah, A., (...), Shalabi, M., Nunzi, J.M. 2019 Ionics 25(12), pp. 6025-6033
- 29  A 3D-2D asymptotic analysis of viscoelastic problem with nonlinear dissipative and source terms Dilmi, M., Dilmi, M., Benseridi, H. 2019 Mathematical Methods in the Applied Sciences 42(18), pp. 6505-6521
- 30  Electrochemical Performance Analysis of Lead Dioxide Prepared from Intermediate Oxides Rahmani, L., Fitas, R., Zegadi, A., Zerroual, L. 2019 Arabian Journal for Science and Engineering 44(12), pp. 9905-9910
- Feature selection for intrusion detection using new multi-objective estimation of distribution algorithms Maza, S., Touahria, M. 2019 Applied Intelligence 49(12), pp. 4237-4257

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- Pressure effect on the structural, elastic and thermodynamic properties of the BeP<sub>2</sub>N<sub>4</sub> compound: First-principles investigation Beldjoudi, K., Sahraoui, F.A., Bouhemadou, A. 2019 Computational Condensed Matter 21,e00408
- Design and Performance of a Multipurpose 2-D Photonic Crystal Device Based on Y Couplers Bendemagh, K., Zegadi, R., Satour, F.Z., Zegadi, A. 2019 Plasmonics 14(6), pp. 1479-1487
- Platinum electrode modified with polyterthiophene doped with metallic nanoparticles, as sensitive sensor for the electroanalysis of ascorbic acid (AA) Maouche, N., Nessark, B., Bakas, I. 2019 Arabian Journal of Chemistry 12(8), pp. 2556-2562  
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- Hydro-geophysical and geochemical studies of the aquifer systems in El Kef region (Northwestern Tunisia) Ayadi, Y., Redhaounia, B., Mokadem, N., (...), Dhaoui, M., Hamed, Y. 2019 Carbonates and Evaporites 34(4), pp. 1391-1413
- Physical properties of Fe<sub>1-x</sub>Cu<sub>x</sub> films electrodeposited on porous and non-porous silicon Hadji, F., Mebarki, M., Layadi, A., (...), Azizi, A., Khelladi, M.R. 2019 Materials Research Express 6(12),126308
- Study of Ni<sub>63</sub>-Co<sub>37</sub> nanocrystalline electrodeposited alloy as anti-wear coating on mild steel substrate Hamidouche, M., Khennafi-Benghalem, N., Jacomet, S., Fidès, M., Hvizdoš, P. 2019 Materials Research Express 6(12),126557
- Investigation on thermal buckling of porous FG plate resting on elastic foundation via quasi 3D solution Mekerbi, M., Benyoucef, S., Mahmoudi, A., Bourada, F., Tounsi, A. 2019 Structural Engineering and Mechanics 72(4), pp. 513-524

- 39  Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle Haye, E., Achour, A., Guerra, A., (...), Pireaux, J.-J., Lucas, S. 2019 Electrochimica Acta 324,134890
- 40  Contribution of surface treatments by esterification and silanization in reinforcing the composites based on Pine cone and Spartium junceum flours and polypropylene Messaoudi, K., Nekkaa, S., Guessoum, M. 2019 Journal of Adhesion Science and Technology 33(22), pp. 2405-2429
- 41  Effect of i-ZnO seed layer on the properties of electrodeposited p-Cu<sub>2</sub>O/n-ZnO/FTO heterojunction thin films Kara, R., Rachid, S., Azizi, A. 2019 Materials Research Express 6(12),126402
- 42  Effect of anodization treatment on the mechanical properties and fatigue behavior of AA2017-T4 aluminum alloy Al-Cu-Mg1 Debih, A., Ouakdi, E.H. 2019 International Journal of Materials Research 110(11), pp. 1032-1038
- 43  Theoretical study of the collision dynamics in (e,2e) reactions Khatir, T., Houamer, S., Dal Cappello, C. 2019 Journal of Physics B: Atomic, Molecular and Optical Physics 52(24),245201
- 44  Synthesis, spectral analysis, theoretical studies, molecular dynamic simulation and comparison of anticorrosive activity of an ester and an acid  $\alpha$ -Hydroxyphosphonates Bourzami, R., Ouksel, L., Chafai, N. 2019 Journal of Molecular Structure 1195, pp. 839-849
- 45  Sensorless Predictive Current Controlled DC-DC Boost Converter for PV MPPT Applications Talbi, B., Krim, F., Laib, A., Sahli, A., Feroura, H. 2019 Proceedings of 2019 7th International Renewable and Sustainable Energy Conference, IRSEC 2019 9078238

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| 46 | <input type="checkbox"/> <u>Merging deep learning model for fake news detection</u>   | <u>Amine, B.M., Drif, A., Giordano, S.</u>                | 2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019 9015097 |
| 47 | <input type="checkbox"/> <u>GPU-Based PSO for Bitmap Join Indexes Selection Problem in Data Warehouses</u>                          | <u>Toumi, L., Ugur, A., Azzi, Y.</u>                      | 2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019 9014703 |
| 48 | <input type="checkbox"/> <u>Adaptive Nonlinear Controller Design for DC-DC Buck Converter via Backstepping Methodology</u>          | <u>Boutebba, O., Semcheddine, S., Krim, F., Talbi, B.</u> | 2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019 9014825 |
| 49 | <input type="checkbox"/> <u>Multimodal Biometric Verification using the Iris and Major Finger Knuckles</u>                          | <u>Herbadji, A., Guermat, N., Ziet, L., Cheniti, M.</u>   | 2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019 9014704 |
| 50 | <input type="checkbox"/> <u>State Space Modeling of Paralleled Distribution Generation Based Microgrid in Island Mode Operation</u> | <u>Daili, Y., Harrag, A.</u>                              | 2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019 9015070 |
| 51 | <input type="checkbox"/> <u>Design of a Backstepping-Controlled Boost Converter for MPPT in PV Chains</u>                           | <u>Boutebba, O., Semcheddine, S., Krim, F., Talbi, B.</u> | 2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019         |



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52	<input type="checkbox"/> <u>Electromagnetic Transient Analysis of Corona characteristics under damped impulses</u>	<u>Anane, Z., Bayadi, A.</u>	2019 2019 International Conference on Advanced Electrical Engineering, ICAEE 2019 9014795
53	<input type="checkbox"/> <u>An Improved Clustering Method Based on K-Means Algorithm for MRI Brain Tumor Segmentation</u>	<u>Mehidi, I., Chouaib Belkhiat, D.E., Jabri, D.</u>	2019 Proceedings - 2019 6th International Conference on Image and Signal Processing and their Applications, ISPA 2019 8966891
54	<input type="checkbox"/> <u>Performance Enhancement of SAC-OCDMA System using a new Optical Code</u>	<u>Alayedj, M., Cherifi, A., Hamida, A.F.</u>	2019 Proceedings - 2019 6th International Conference on Image and Signal Processing and their Applications, ISPA 2019 8966912
55	<input type="checkbox"/> <u>High Gain and Radiation Coverage Antenna Array for RF Power Harvesting</u>	<u>Djadour, I., Aidel, S., Medkour, H., (...), Belala, M.A., Zegadi, A.</u>	2019 Proceedings - 2019 6th International Conference on Image and Signal Processing and their Applications, ISPA 2019 8966829
56	<input type="checkbox"/> <u>Automatic diffracted order detection in spectral domain of digital multiplexed off-axis holograms: Application to spatial filtering</u>	<u>Chaab, O., Refis, N., Mehidi, A., Bouamama, L., Simoens, S.</u>	2019 Proceedings - 2019 6th International Conference on Image and Signal Processing and their Applications, ISPA 2019

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- 57  Study of the Structural, Elastic, Electronic and Optical Properties of the Ternary Acetylides  $A_2MC_2$  (A = Na, K) and (M = Pb, Pt) Ghebouli, M.A., Ghebouli, B., Fatmi, M., Chihi, T. 2019 Journal of the Korean Physical Society 75(9), pp. 678-684
- 58  Effective adsorption of methylene blue dye onto magnetic nanocomposites. Modeling and reuse studies *Open Access* Alvarez-Torrellas, S., Boutahala, M., Boukhalifa, N., Munoz, M. 2019 Applied Sciences (Switzerland) 9(21),4563
- 59  Corrigendum to “Using PVDF piezoelectric polymers to maximize power harvested by mechanical structure” (Superlattices and Microstructures (2019) 127 (20–26), (S0749603617323200), (10.1016/j.spmi.2018.03.044)) *Open Access* Eddiai, A., Meddad, M., Farhan, R., (...), Rguiti, M., Guyomar, D. 2019 Superlattices and Microstructures 135,106241
- 60  Electronic structure and optical properties of TaNO: An ab initio study Irfan, M., Kamran, M.A., Azam, S., (...), Wang, X., Bouhemadou, A. 2019 Journal of Molecular Graphics and Modelling 92, pp. 296-302
- 61  Influence of growth time and substrate type on the microstructure and luminescence properties of ZnO thin films deposited by RF sputtering Mendil, D., Challali, F., Touam, T., (...), Ouhenia, S., Djouadi, D. 2019 Journal of Luminescence 215,116631
- 62  Elastic, electronic, chemical bonding and thermodynamic properties of the ternary nitride  $Ca_4TiN_4$ : Ab initio predictions Boucenna, S., Haddadi, K., Bouhemadou, A., (...), Soyalp, F., Khenata, R. 2019 Journal of Molecular Graphics and Modelling 92, pp. 74-85

- 63  Enhanced authentication and key management scheme for securing data transmission in the internet of things Harbi, Y., Aliouat, Z., Refoufi, A., Harous, S., Bentaleb, A. 2019 Ad Hoc Networks 94,101948
- 64  Spectral signs of aeolian activity around a sand-dune belt in northern Algeria Hassani, M., Saadoud, D., Chabou, M.C., Martín-Peinado, F.J., Sánchez-Marañón, M. 2019 Catena 182,104175
- 65  SMCA: An efficient SOAP messages compression and aggregation technique for improving web services performance Haroune-Belkacem, N., Semchedine, F., Al-Shammari, A., Aissani, D. 2019 Journal of Parallel and Distributed Computing 133, pp. 149-158
- 66  Sintering behavior of anorthite-based composite ceramics produced from natural phosphate and kaolin Kenzour, A., Belhouchet, H., Kolli, M., (...), Kherifi, D., Ramesh, S. 2019 Ceramics International 45(16), pp. 20258-20265
- 67  Semiclassical expansion of a one-body density matrix for noninteracting fermions in d dimensions Redjati, Y., Berkane, K., Bencheikh, K. 2019 Journal of Physics and Chemistry of Solids 134, pp. 313-318
- 68  First-Principles Calculations to Investigate the Refractive Index and Optical Dielectric Constant of Na<sub>3</sub>SbX<sub>4</sub> (X = S, Se) Ternary Chalcogenides Al-Douri, Y., Ameri, M., Bouhemadou, A., Batoo, K.M. 2019 Physica Status Solidi (B) Basic Research 256(11),1900131
- 69  A New Heuristic Clustering Algorithm Based on RSU for Internet of Vehicles Senouci, O., Harous, S., Aliouat, Z. 2019 Arabian Journal for Science and Engineering 44(11), pp. 9735-9753

- 70  Equilibrium ground-state properties of the ternary alkali metal coinage metal phosphides  $K_2CuP$  and  $K_2AgP$ : New insights from first principles calculations Maabed, S., Halit, M., Bouhemadou, A., Benmakhlouf, A., Bouchenafa, M. 2019 Journal of Alloys and Compounds 804, pp. 128-138
- 71  Analysis of some biomechanical variables influencing the accuracy of direct free kicks in soccer Bessenouci, H., Haceini, A. 2019 Computer Methods in Biomechanics and Biomedical Engineering 22(sup1), pp. S340-S342  
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- 72  Biocomposites based on date palm flour reinforced (70/30) polypropylene/thermoplastic starch blend: Effects of flour treatment and selective dispersion Toumi, N., Guessoum, M., Nekkaa, S. 2019 Journal of Adhesion Science and Technology 33(19), pp. 2071-2092
- 73  Geochemical assessment, mixing behavior and environmental impact of thermal waters in the Guelma geothermal system, Algeria Bouaicha, F., Dib, H., Bouteraa, O., (...), Chabour, N., Demdoun, A. 2019 Acta Geochimica 38(5), pp. 683-702
- 74  A Distributed Weight-Based TDMA Scheduling Algorithm for Latency Improvement in IoT Batta, M.S., Aliouat, Z., Harous, S. 2019 2019 IEEE 10th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference, UEMCON 2019 8993097, pp. 0768-0774
- 75  ACO-based Distributed Energy Routing Protocol in Smart Grid Hebal, S., Mechta, D., Harous, S. 2019 2019 IEEE 10th Annual Ubiquitous Computing, Electronics and Mobile

- Communication Conference,  
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8993108, pp. 0568-0571
- 76** Impact of fin height on bias temperature instability of memory periphery finfets Boubaaya, M., Benaceur-Doumaz, D., Ferhat Hamida, A., (...), Fazan, P., Kim, C. 2019 IEEE International Integrated Reliability Workshop Final Report 2019-October, 8989914
- 77** A novel MRAC-based fractional adaptive control design for a class of fractional order linear systems Bourouba, B., Schulte, H., Ladaci, S. 2019 2019 8th International Conference on Systems and Control, ICSC 2019 8950529, pp. 303-308
- 78** A new high performance control strategy of mobile manipulator using fuzzy-flatness approach with gains adjustment in real time Boubezoula, M., Hassam, A., Khesrani, S., Srairi, F., Boutalbi, O. 2019 2019 8th International Conference on Systems and Control, ICSC 2019 8950641, pp. 258-264
- 79** A new technique for photovoltaic system efficiency under fast changing solar irradiation Mahammedi, A., Kouzou, A., Hafaifa, A., Talbi, B. 2019 EEA - Electrotehnica, Electronica, Automatica 67(4), pp. 12-19
- 80** Would it be profitable enough to re-Adapt algorithmic thinking for parallelism paradigm Eddine Debbi, A., Farhat Hamida, A., Bakhti, H. 2019 2019 2nd International Conference on New Trends in Computing Sciences, ICTCS 2019 - Proceedings 8923085

- 81  Design of a novel chiral fractal resonator  
*Open Access* Mezache, Z., Zara, C., Benabdelaziz, F. 2019 Serbian Journal of Electrical Engineering 16(3), pp. 377-385
- 82  Low-cost, biodegradable and highly effective adsorbents for batch and column fixed bed adsorption processes of methylene blue Aichour, A., Zaghouane-Boudiaf, H., Mohamed Zuki, F.B., Kheireddine Aroua, M., Ibbora, C.V. 2019 Journal of Environmental Chemical Engineering 7(5),103409
- 83  Comparative study of the polyphenol content related-antioxidant and anti-inflammatory activities of methanolic extracts from different parts of hertia cheirifolia Abdelouhab, K., Aouachria, S., Guemmez, T., (...), Amarowicz, R., Arrar, L. 2019 International Journal of Pharmaceutical Research 11(4), pp. 209-215
- 84  Chemotypes and antibacterial activity of Matricaria pubescens of Algeria  
*Open Access* Mekhadmi, N.E., Ramdani, M., Lograda, T., Chalard, P., Figueredo, G. 2019 Biodiversitas 20(11), pp. 3170-3179
- 85  A compact semi-circular and arc-shaped slot antenna for heterogeneous RF front-ends  
*Open Access* Zebiri, C., Sayad, D., Elfergani, I., (...), Rodriguez, J., Abd-Alhameed, R. 2019 Electronics (Switzerland) 8(10),1123
- 86  Role of soil physicochemical and microbiological properties in the occurrence and severity of chickpea's fusarium wilt disease  
*Open Access* Moutassem, D., Belabid, L., Bellik, Y., (...), Ziouche, S., Baali, F. 2019 Eurasian Journal of Soil Science 8(4), pp. 304-312
- 87  Effect of the electric field induced birefringence on the slab waveguide evanescent-wave sensor sensitivity Cherouana, A., Bencheikh, A., Bouchama, I. 2019 Optical and Quantum Electronics 51(10),331

- 88  Neural network maximum power point tracking for performance improvement of solar PV water pumping system Harrag, A. 2019 Journal of Photonics for Energy 9(4),043109
- 89  Modified method for transformer magnetizing characteristic computation and point-on-wave control switching for inrush current mitigation Yahiou, A., Bayadi, A., Babes, B. 2019 International Journal of Circuit Theory and Applications 47(10), pp. 1664-1679
- 90  Quantitative Feedback Theory design of robust MPPT controller for Small Wind Energy Conversion Systems: Design, analysis and experimental study Daili, Y., Gaubert, J.-P., Rahmani, L., Harrag, A. 2019 Sustainable Energy Technologies and Assessments 35, pp. 308-320
- 91  New model of multi-parallel distributed generator units based on virtual synchronous generator control strategy Daili, Y., Harrag, A. 2019 Energy, Ecology and Environment 4(5), pp. 222-232
- 92  Hydrothermal synthesis of strontium-doped ZnS nanoparticles: structural, electronic and photocatalytic investigations *Open Access* Boukroune, R., Sebais, M., Messai, Y., (...), Halimi, O., Boudine, B. 2019 Bulletin of Materials Science 42(5),223
- 93  Electronic band structure, thermodynamics and optical characteristics of  $\text{BeO}_{1-x}\text{A}_x$  (A = S, Se, Te) alloys: Insights from ab initio study Obeid, M.M., Shukur, M.M., Edrees, S.J., (...), Jappor, H.R., Wang, X. 2019 Chemical Physics 526,110414
- 94  Mechanical behaviour of jute fibre-reinforced polyester composite: Characterization of damage mechanisms using acoustic emission and microstructural observations Alia, A., Fantozzi, G., Godin, N., Osmani, H., Reynaud, P. 2019 Journal of Composite Materials 53(24), pp. 3377-3394
- Modeling and analysis of the effect of substrate on the flexible piezoelectric films for kinetic energy harvesting from textiles Chakhchaoui, N., Jaouani, H., Ennamiri, H., (...), Van 2019 Journal of Composite Materials 53(24), pp. 3349-3361

- 95** Langenhove, L., Boughaleb, Y.
- 96** Effect of thermal treatment on the mechanical and viscoelastic response of polypropylenes incorporating a  $\beta$  nucleating agent Belkoucem, K., Benarab, A., Krache, R., (...), Pérez, E., Cerrada, M.L. 2019 Journal of Elastomers and Plastics 51(6), pp. 562-579
- 97** Can palm date plantations and oasisification be used as a proxy to fight sustainably against desertification and sand encroachment in hot drylands? Mihi, A., Tarai, N., Chenchouni, H. 2019 Ecological Indicators 105, pp. 365-375
- 98** Investigation of the physical properties of Fe/Si for use in a Cu/Fe/Si solar cells contact Mebarki, M., Layadi, A. 2019 Materials Research Express 6(11),115505
- 99** Advanced fault-tolerant control strategy of wind turbine based on squirrel cage induction generator with rotor bar defects Rouabah, B., Toubakh, H., Sayed-Mouchaweh, M. 2019 Proceedings of the Annual Conference of the Prognostics and Health Management Society, PHM 11(1) *Open Access*
- 100** Synthesis, structure and luminescence properties of zinc and cadmium linear-chain compounds with anionic monoalkoxy-tetracyanopropenes bridged by 4,4'-bipyridines Addala, A., Poupon, M., Bernès, S., (...), Setifi, Z., Reedijk, J. 2019 Polyhedron 170, pp. 271-277 *Open Access*
- 101** Centroid-Based Single Sink Placement in Wireless Sensor Networks Louail, L., Felea, V. 2019 Wireless Personal Communications 108(1), pp. 121-140 *Open Access*



- 102  A Review of Security in Internet of Things  
Harbi, Y., Aliouat, Z., Harous, S., Bentaleb, A., Refoufi, A. 2019 Wireless Personal Communications 108(1), pp. 325-344
- 103  A vertical optimization method for a simultaneous extraction of the five parameters characterizing the barrier height in the Mo/4H-SiC Schottky contact  
Toumi, S., Ouennoughi, Z. 2019 Indian Journal of Physics 93(9), pp. 1155-1162
- 104  Synthesis, single crystal X-ray structure and vibrational spectroscopic characterization study of a new hybrid material crystal: Bis(2,4,6-trihydroxy-1,3,5-triazin-1-ium)bischloride monohydrate  
Chenefa AitYoucef, H., Bourzami, R. 2019 Journal of Molecular Structure 1191, pp. 218-224
- 105  Magnetic Properties of Co Thin Films Fabricated by Thermal Heating under Vacuum  
Kharmouche, A. 2019 Proceedings of the 2019 IEEE 9th International Conference on Nanomaterials: Applications and Properties, NAP 2019 9075684
- 106  Heating Behavior of Photovoltaic Panels and Front Side Water Cooling Efficiency  
Mohamed Fathi, Abderrezek, M., Djahli, F. 2019 Applied Solar Energy (English translation of Geliotekhnika) 55(5), pp. 327-339
- 107  Optimal design of fractional order  $PI^{\lambda}D^{\mu}$  controller for an AVR system using Ant Lion Optimizer  
Bourouba, B., Ladaci, S., Schulte, H. 2019 IFAC-PapersOnLine 52(13), pp. 200-205  
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