



**Production scientifique
2012-2015
Laboratoire de physique de la matière condensée et énergies renouvelables**

*** Projets internationaux financés**

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|-----|---|-------------|-------|
| 433 | 2015 Projet du projet PHC Maghreb, MAG/NRJ/14 Campus France N°32595SL Maghreb | | 2015 |

***Projets nationaux financés**

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|----|--|-------------|-------|
| 16 | Projet de la niche d'excellence de l'Université Hassan II Mohammedia | | 2013 |
| 17 | Projet de l'Académie Hassan II des sciences et techniques | | 2012 |

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| 327 | Contribution au développement et à la réalisation des cellules photovoltaïques organiques | Zazoui Mimoun | 2016 |
| 419 | Contribution au développement et réalisation des cellules photovoltaïques organiques | | 2015 |
| 420 | Contribution au développement et réalisation des cellules photovoltaïques organiques | M. Zazoui | 2017 |
| 422 | Réalisation d'une mini station électrique à base d'une plate forme éolienne et solaire photovoltaïque | A. Amine | 2014 |
| 425 | Nouveaux Matériaux pour l'Optique Non linéaire et Applications | Bouziane BENALI | 2017 |
| 457 | 3ème tranche 2015 Réalisation d'une mini station électrique à base d'une plate forme éolienne et solaire photovoltaïque | Aziz Amine | 2016 |
| 459 | 2ème tranche 2017 Nouveaux Matériaux pour l'Optique Non linéaire et Applications | Bouziane BENALI | 2017 |

*Publications indexées

| ID | Intitulé | Année | Journal | Auteurs |
|-----|--|-------|---|------------------------|
| 868 | Conjugate gradient and steepest descent training algorithms indetermination of solar cell parameters | 2014 | International Journal of Emerging Trends in Engineering and Development (IJETED) | Dkhichi F., Oukarfi B. |
| 870 | Neural Network Training by Gradient Descent Algorithms: Application on the Solar Cell | 2014 | International Journal of Innovative Research in science, Engineering and Technology (IJIRSET) | Dkhichi F., Oukarfi B. |

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| 871 | Determination of Solar Cell Parameters using Neural Network Trained by Steepest Descent Algorithm | 2014 | International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE) | Dkhichi F., Oukarfi B. |
| 875 | Levenberg-Marquardt and Conjugate Gradient Training Algorithms of Neural Network for Parameter Determination of Solar Cell | 2014 | International Journal of Innovation and Applied Studies (IJIAS) | Dkhichi F., Oukarfi B. |
| 876 | Parameter identification of solar cell model using Levenberg-Marquardt algorithm combined with Simulated Annealing | 2014 | Solar Energy Journal, Elsevier. | Dkhichi F., Oukarfi B., Fakkar A., Belbounaguia N. |
| 878 | Neural network based integration of MPPT and diagnosis of degradation for photovoltaic module | 2015 | Optical and Quantum Electronics Journal, Springer. | Dkhichi F., Oukarfi B., El Kouari Y., Ouoba D., Fakkar A. |
| 905 | Parametric identification by minimizing the squared residuals (Application to a photovoltaic cell) | 2013 | IEEE Xplore | Oukarfi B., Dkhichi F., Fakkar A. |
| 914 | Size dependence of the polarizability and Haynes rule for an exciton bound to an ionized donor in a single spherical quantum dot | 2015 | Journal of Applied Physics | 1. E. Feddi, A. Zouitine, A. Oukerroum, F. Dujardin, E. Assaid, and M. Zazoui |
| 915 | Dynamical contribution of mean potential vorticity pseudo-observations derived from MetOp GEOM2 ozone data into short range weather forecast during hight | 2015 | International Journal of Basic and Applied Sciences | 2. Siham Sbi, Mimoun Zazoui, Nouredine Semane |

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| | precipitation events | | | |
| 916 | Two methods for extracting the parameters of a nonideal diode | 2015 | International Journal of Physical Sciences | 3. M. Khalis, R. Masrour, Y. Mir and M. Zazoui |
| 917 | Dynamical contribution of Mean Potential Vorticity pseudo-observations, derived from MetOp/GOME2 Ozone data into weather forecast a Mediterranean High Precipitation Event study | 2015 | Geophysical Research EGU General Assembly | 4. Siham Sbi, Mimoun Zazoui, and Nouredine Semane |
| 918 | Efficient Charge Transfer Process in an Intelligent Electrical Storage System. IRACST-Engineering Science and Technology | 2014 | An International Journal (ESTIJ), | 5. Rebbani, A., Bouattane, O., Bahatti, L. and Zazoui, M |
| 919 | An Efficient Electric Charge Transfer Device for Intelligent Storage Units | 2014 | Open Journal of Energy Efficiency | 6. A.Rebbani, O.Bouattane, L.Bahatti and M. Zazoui |
| 920 | The window layers effect on the hardness improvement of space solar cells exposed to the 1 MeV electron irradiations | 2013 | Opt Quant Electron | 7. Y. Mir, A. Amine, M. Bouabdellaoui, K. Zazi and M. Zazoui |
| 921 | Modelling of dual-junction Solar Cells including tunnel junction | 2013 | Advances in Condensed Matter Physics | Amine Abdelaziz, Mir Yamina and Zazoui Mimoun |
| 922 | Modélisation sinusoïdale court terme d'un signal musical oriental en vue de sa caractérisation | 2013 | Revue Méditerranéenne des Télécommunicatio n | 9. Lhoucine Bahatti, Ahmed Rebbani, Omar Bouattane, Mimoun Zazoui |
| 924 | Exploring the potential application of MetOp/GOME2 ozone data to weather | 2013 | International Journal of Computer Science Issues | 11. Siham Sbi, Mimoun Zazoui, and Nouredine Semane |

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| | analysis | | | |
| 925 | Fast Algorithm for In situ transcription of musical signal: case of flute music | 2013 | IJCSI International Journal of Computer Science Issues | 12. Lhoucine Bahatti; Omar Bouattane, Mimoun Zazoui, Ahmed Rebbani |
| 1498 | Determination of the Maximum Efficiency of the Photovoltaic Cells (Crystalline and Amorphous Silicon) using A Genetic Algorithm | 2014 | International Journal of Advanced Research in Computer Science and Software Engineering | Latifa Sabri Mohammed Benzirar |
| 1510 | Effect of Ambient Conditions on Thermal Properties of Photovoltaic Cells: Crystalline and Amorphous Silicon | 2014 | International Journal of Innovative Research in Science, Engineering and Technology | Latifa Sabri , Mohammed Benzirar |
| 1516 | The effect of ambient conditions on system efficiency of concentrated solar plants (Parabolic trough and central tower) | 2015 | International journal of application or innovation in Engineering and Management | Latifa Sabri , Mohammed Benzirar |
| 1524 | Determination of the Maximum Efficiency of Concentrated Solar Power (Parabolic Trough and Central Tower) using Genetic Algorithm | 2015 | Asian Journal of Applied Sciences | Latifa Sabri , Mohammed Benzirar |
| 1529 | Solving Nonlinear Equality Constrained Multiobjective optimization Problems Using Neural Networks | 2015 | IEEE Transaction on Neural Networks and Learning Systems | Mohammed Mestari, Mohammed Benzirar |
| 1534 | Numerical modeling of the welding defect influence on fatigue life of the | 2014 | International Journal Of Engineering And Science | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI |

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| | weld bead with analyzing residual stress effects Research Inventy | | | |
| 1611 | Methodologies for computing UV-VIS spectra and nonlinear properties of azo-azulene derivatives | 2012 | Optical Materials | A. Migalska-Zalas · Y. El kouari · S. Touhtouh |
| 1612 | Quantum chemical calculations and experimental studies of third-order nonlinear optical properties of conjugated TTF-quinones | 2013 | Optical Materials | A. Karakas · A. Migalska-Zalas · Y. El Kouari · A. Gozutok · M. Karakaya · S. Touhtouh |
| 1613 | Computations of absorption spectra and nonlinear optical properties of molecules based on anthocyanidin structure | 2014 | Optical and Quantum Electronics | Y. El Kouari · A. Migalska-Zalas · A. K. Arof · B. Sahraoui |
| 1614 | Identification of Photovoltaic Cell Model by Neural Network | 2014 | Revue Méditerranéenne des Télécommunication | Fayrouz Dkhichi · Benyounes Oukarfi · Abderrahim Fakkar · Youssef El Kouari |
| 1615 | Elaboration d'un système d'optimisation de puissance d'une structure photovoltaïque | 2014 | Revue Méditerranéenne des Télécommunication | M Zegrari · A Badri · B Oukarfi · Y Elkouari |
| 1617 | Linear and Nonlinear Optical properties of ZnO Thin Films deposited by Pulsed Laser Deposition | 2016 | Journal of Luminescence | A. Zawadzka · P. Płóciennik · Y. El Kouari · H. Bougharraf · B. Sahraoui |
| 1618 | Porous titania films fabricated via sol gel rout - Optical and AFM characterization | 2015 | Optical Materials | Paweł Karasiński · Ewa Gondek · Sabina Drewniak · Anita Kajzer · Natalia Waczyńska-Niemiec · Marcin Basiaga · Weronika Izydorczyk · |

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|-------|--|-------|---|---|
| | | | | Youssef E.L. Kouari |
| 1651 | Characterization of perovskite film prepared by pulsed laser deposition on ferritic stainless steel using microscopic and optical methods | 2015 | Optical Materials | E. Durda · J. Jaglarz · S. Kac · K. Przybylski · Y. El Kouari |
| 1709 | Correlation Between Enhanced T _c , Orthorhombicity and the Volume of the Unit Cell in Argon Preheated (Y _{1-x} Nd _x)SrBaCu ₃ O _{6+z} | 2013 | IEEE | A. Aboukassim, A. Nafidi, H. Chaib, J. Hemine, A. Ramzi, A. Tirbiyine, A. Taoufik, E. Y. El Yakoubi, H. Sahseh, M. Massa, T. El Gouti |
| 1712 | Dielectric Spectroscopy of the electroclinic effect in ferroelectric liquid crystal materials | 2014 | Spectroscopy Letters | J. Hemine, A. Daoudi, R. Douali, A. El kaaouachi, A. Nafidi, C. Legrand, A. Bouajaj |
| 1722 | Erbium-Activated Silica-Titania Planar Waveguides: A Study by Raman and Fluorescence Spectroscopy | 2015 | International Journal of Multi-disciplinary Sciences | A. Bouajaj, J. Hemine, R. R. Gonçalves, M. Ferrari |
| 7874 | Interface structure of deposited GaSb on GaAs (001): Monte Carlo simulation and experimental study | 2012 | Journal of Materials Science | N.Fazouan, E.Atmani, F.ElKasri, M.Djafari Rouhani and A.Esteve |
| 7881 | STUDY OF ELECTROLUMINESCENT DIODES OF GaAs _{1-x} P _x USING CONDUCTANCE SPECTROSCOPY | 2015 | International Journal of Advances in Materials Science and Engineering (IJAMSE) | A.Tarbi and E.H.Atmani |
| 15411 | Control of the binding energy by tuning the single dopant position, magnetic field strength and shell thickness in ZnS/CdSe core/shell quantum dot | 2016 | Physica E | 1. A. Talbi, E. Feddi, A. Zouitine, M. El Haouari, M. Zazoui, A. Oukerroum, F. Dujardin, E. Assaid, M. Addou |

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|-------|--|-------|----------------------------------|---|
| 15412 | Effects of Temperature and Concentration Mono and Polycrystalline Silicon Solar Cells | 2016 | Journal of Physics | M Khalis, R Masrouf, G Khrypunov, M Kirichenko, D Kudiy and M Zazoui |
| 15426 | Numerical modeling of the intermediate band and transition energy in GaAs/Al _x Ga _{1-x} As quantum dots solar cell with the finite difference approach | 2016 | IEEE | Noureddine Ben Afkir ; Jaafar Meziane ; Mimoun Zazoui |
| 15658 | Measurement of the Root Mean Square (RMS) Temperature Fluctuations of a Turbulent Plane Jet Using an Optical Method | 2016 | Fluctuation and Noise Letters | S. Borji, M. Benzirar, L. Sabri and M. Bouabdellaoui |
| 15669 | Spin-coated nickel doped cadmium sulfide thin films for third harmonic generation applications | 2016 | Journal of Alloys and Compounds | Chtouki Tarek , EL KOUARI Youssef, Kulyk Bohdan, Louardi A., A. Rmili, H. Erguig, B. Elidrissi, Lassina Soumahoro, Bouchta Sahraoui |
| 15670 | Second and third-order nonlinear optical behavior of natural pigment: chlorophyll and crocin | 2016 | Ionics | Asli Karakas, Mustafa Karakaya, Mehmet Taşer, Y. Ceylan, A K Arof, Youssef El Kouari, Bouchta Sahraoui |
| 15671 | Surface properties of hard protective coatings studied by optical techniques | 2016 | Optical Materials | Janusz Jaglarz, Natalia Wolska, M. Mitura-Nowak, R. Duraj, Konstanty Waldemar Marszalek, Youssef El Kouari |
| 16179 | Landfill leachate treatment by a coagulation-flocculation process: effect of the introduction order of the reagents | 2016 | Desalination and Water Treatment | M. Assou, L. El Fels, A. El Asli, H. Fakidi, S. Souabi & M. Hafidi |

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|-------|---|-------|--|--|
| 16180 | Effect of notch and residual stresses on the fatigue strength of the weld joints. Local approach analysis | 2016 | International Review of Mechanical Engineering (I.RE.M.E.) | H. Khatib, K.Mansouri, B. Salhi, A. Yeznasni |
| 16181 | Removal of Turbidity in Tannery Waste Water: Modelling by the Experimental Design | 2014 | International Journal of Civil and Environmental Engineering | M. Assou, A. Madinzi, M. A. Aboulhassan, S. Souabi |
| 16182 | Biological Treatment of Sstabilized Landfill Leachate Produced by The Public Discharge of the City Mohammedia (Morocco) | 2014 | Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry | Abdelaziz Madinzi, Moulay Abdelaziz Aboulhassan, Mohammed Assou1, Hamid Fakidi, Moulay Abdellah Bahlaoui, Salah Souabi, Mohamed Hafidi |
| 16183 | Reducing Pollution of Stabilized Landfill Leachate by Mixing of Coagulants and Flocculants: a Comparative Study | 2014 | International Journal of Engineering and Innovative Technology (IJEIT) | M. Assou, A. Madinzi, A.Anouzla, M.A. Aboulhassan, S. Souabi, M. Hafidi |
| 17125 | Synthesis, spectral, theoretical calculations and optical properties performance of substituted-azobenzene dyes | 2016 | Optical and Quantum Electronics | M. Bouchouit, Youssef El Kouari, Messaadia Lyamine, Abdelmalek Bouraiou, S. Arroudj, Sofiane Bouacida, Said Taboukhat, K. Bouchouit |
| 17126 | Computational studies on linear, second and third-order nonlinear optical properties of novel styrylquinolinium dyes | 2016 | Chemical Physics Letters | A. Karakas, Mustafa Karakaya, Mehmet Taşer, Y. Ceylan, A. Gozutok, A K Arof, Youssef El Kouari, Bouchta Sahraoui |
| 17127 | Ab-initio and DFT methodologies for computing hyperpolarizabilities and susceptibilities of highly conjugated | 2016 | Optical Materials | Asli Karakas, Mustafa Karakaya, Y. Ceylan, Youssef El Kouari, Said Taboukhat, Yahia Boughaleb, Zouhir |

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| | organic compounds for nonlinear optical applications | | | Sofiani |
| 17128 | An improved maximum power point tracking method for a photovoltaic system | 2016 | Optical Materials | David Ouoba, Abderrahim Fakkar, Youssef El Kouari, Fayrouz Dkhichi, Benyounes Oukarfi |
| 17129 | Characterization of perovskite film prepared by pulsed laser deposition on ferritic stainless steel using microscopic and optical methods | 2016 | Optical Materials | Ewa Durda, Janusz Jaglarz, Sławomir Kąc, K. Przybylski, Youssef El Kouari |
| 17403 | A Study by Ab-Initio Calculation of Structural and Electronic Properties of Semiconductor Nanostructures Based on ZnSe | 2016 | Materials Sciences and Applications | A.Rachidi, E.H.Atmani, N.Fazouan, M.Boujnah |
| 17510 | Comparative first principles study of ZnO doped with group III elements | 2016 | Journal of Alloys and Compounds | Mohamed Khuili, Nejma Fazouan, Hassna Abou El Makarim, Ghizlane El Halani, El Houssine Atmani |
| 17511 | Study of properties of (Mg, Al)-codoped ZnO with GGA and mBJ approximations | 2016 | Physics Letters A | Mohamed Khuili, Nejma Fazouan, Hassna Abou El Makarim, El Houssine Atmani |
| 17512 | First principle study of structural, electronic, optical and electrical properties of Ga doped ZnO with GGA and mBJ approximations | 2016 | Journal of Physics, Conference Series | M Khuili, N Fazouan, H Abou El Makarim, G El Hallani, E H Atmani |
| 17706 | Nonlinear optical properties of new synthesized conjugated organic molecules based on pyrimidine and | 2016 | J. of Optical and Quantum Electronics | Z. Sofiani, S. Khannyra, A. Boucetta, M. El Jouad, K. Bouchouit, H. Serrar, S. Boukhris, A. Souizi, A. Migalska- |

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| | oxazepine | | | Zalas |
| 17708 | Elastic scattering phenomena in thin polymer layers | 2016 | Materials Today | J. Jaglarz, K. Marszalek, R. Duraj, I.M. Noor, A.K. Arof, N. Wolska, Z. Sofiani |
| 17710 | Synthesis, spectral, optical properties and theoretical calculations on schiff bases ligands containing o-tolidine | 2016 | Optical Materials | S. Arroudj, M. Bouchouit, K. Bouchouit, A. Bouraiou, L. Messaadia, B. Kulyk, V. Figa, S. Bouacida, Z. Sofiani, S. Taboukhat, |
| 17711 | Nonlinear optical properties of zinc oxide doped bismuth thin films using Z-scan technique | 2015 | Optical Materials | S. Abed, K. Bouchouit, M.S. Aida, S. Taboukhat, Z. Sofiani, B. Kulyk, V. Figa |
| 17712 | Influence of Bi doping on the electrical and optical properties of ZnO thin films, Superlattices and Microstructures | 2015 | Superlattices and Microstructures | S. Abed, H. Bougharraf, K. Bouchouit, Z. Sofiani, B. Derkowska-Zielinska, M.S. Aida, B. Sahraoui, |
| 17717 | Optical properties of undoped and tin-doped nanostructured In ₂ O ₃ thin films deposited by spray pyrolysis | 2015 | The European Physical Journal Applied Physics | Nabil Fellahi, Mohammed Addou, Amina Kachouane, Mohamed El Jouad, Zouhair Sofiani |
| 17718 | Effect of Grain Size on Magnetic Properties of ZnO Doped with Nickel Single Impurities | 2015 | Journal of Superconductivity and Novel Magnetism | A Ballouch, B Benali, M Addou, M Eljaouad, Z Sofiani, A Benyoussef, A El Kenz |
| 17720 | Wide and Intense Emission Band in the Visible area in CdSe Nanocrystals Dispersed in PMMA | 2014 | Nonlinear Optics, Quantum Optics: Concepts in Modern Optics | CH ABDERRAHMANE, A MIGALSKA-ZALAS, AK AROF, Z SOFIANI, B SAHRAOUI |
| 17721 | Temperature Effects on the Nonlinear Optical and Luminescence Properties for TCOs Based on In ₂ O ₃ Layers | 2015 | International Journal of Research Studies in Science, Engineering and Technology | Z. SOFIANI, M. EL JOUAD, S. KHANNYRA |

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| | Grown by Spray Pyrolysis | | | |
| 18114 | Effect of substrate temperature on the stress and blue light emission of nanostructured In ₂ O ₃ -F thin films prepared by spray pyrolysis | 2015 | IEEE | Nabil Fellahi, Mohammed Addou, Amina Kachouane, Mohamed El Jouad, Zouhair Sofiani, Mohamed Makha |
| 18117 | Nonlinear optical properties of zinc oxide doped bismuth thin films using Z-scan technique | 2016 | Optical Materials | S Abed, K Bouchouit, MS Aida, S Taboukhat, Z Sofiani, B Kulyk, V Figa |
| 18156 | Sol-gel Aluminum-doped ZnO thin films: synthesis and characterization | 2016 | Journal of Material Environmental. Science | T. Jannane, M. Manoua, A. Liba, N. Fazouan, A. El Hichou, A. Almaggoussi, A. Outzourhit, M. Chaik |
| 18165 | THE LITHIUM EFFECT ON ROUGHNESS, STRUCTURAL, MORPHOLOGICAL PROPERTIES OF Sn DOPED Zn OXIDE THIN | 2016 | J. MATER. ENVIRON. SCI | RHERRAR, ADDOU, SOFIANI, EL JAOUAD, JBILOU, DIANI, CHAHBOUN |
| 18166 | EXTRACTING DOUBLE DIODE MODEL PARAMETER | 2016 | BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATIC | SABRI, BENZIRAR, ZAZOUI |
| 18167 | NEURAL NETWORK BASED INTEGRATION OF MPPT AND DIAGNOSIS OF DEGRADATION FOR PHOTOVOLTAIC MODULE | 2016 | OPT QUANT ELECTRON | DKHICHI, OUKARFI, KOUARI, OUOBA, FAKKAR |
| 18168 | FATIGUE STRENGTH ANALYSIS OF WELDED JOINTS USING EXPERIMENTAL APPROCH BASED ON STATIC CHARACTERIZATION TESTS | 2016 | CONTEP. ENGINEERING SCIENCES | KHATIB, MANSOURI, SALHI, YEZNASNI |
| 19676 | Modélisation théorique et numérique | 2015 | , La Houille Blanche, Revue | 1 M. TAMANI, B. BAHRAR, E. |

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| | d'un écoulement diphasique en conduite flexible avec prise en compte du frottement instationnaire | | Internationale de l'Eau, N°6, Volume 5, 96 - 101 | ACHOUYAB |
| 19677 | Numerical Modeling of Hydraulic Transient in Plastic Pipes | 2016 | International Review of Mechanical Engineering (IREME) | B. Bahrar, H. Samri, E. H. Achouyab, K. Gueraoui |
| 19678 | Two-phase pulsed flow of a non-Newtonian fluid in pipe with elastic wall, | 2015 | Applied Mathematical Sciences, Vol. 9, 2015, no. 24, 1189-1200 | 3 M. Tricha, K. Gueraoui, A. Elbouzidi, B. BAHRAR, A.Mzerd, G. Zeggwagh |
| 19679 | A Polynomial Expansion of Axial Velocity Profiles to Solve Transient Laminar Flow in Elastic Pipe | 2015 | Applied Mathematical Sciences, HIKARI Ltd, Vol. 9, 2015, no. 9, 447 - 457 | 4 H. SAMRI, B. BAHRAR, K. GUERAOU, A. AKEF |
| 19681 | Modeling vaporous cavitation in transient pipe flow using the Zielke's Friction model | 2014 | International Review of Mechanical Engineering (IREME)Vol.8 N°1, 2014. | M. TAMANI, B. BAHRAR, K. Gueraoui |
| 19682 | A Numerical Modelling of velocity profiles an shear stress in hydraulic transient | 2017 | International Review of Civil Engineering (IRECE) | S. HAMDOUN, H. SAMRI, M. DROUICH, M. SAMMOUDA, B. BAHRAR, K. GUERAOU |
| 19685 | Design, implementation and testing of a solar water heater glazed flat plate detector | 2015 | IEEE Xplore | E. H. ACHOUYAB, B. BAHRAR |
| 20403 | REMOVAL COD IN TANNERY WASTE WATER: MODELLING BYTHE EXPERIMENTAL DESIGN | 2017 | Global Journal of Engineering Science and research Management | Mohammed Assou, BrahimLachgar, AbdelazizMadinzi, Salah Souabi |
| 20404 | REMOVAL COLOUR FROM TANNERY WASTE WATER: MODELLING BY THE EXPERIMENTAL DESIGN | 2017 | INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY | M. Assou , A. Madinzi, B. Lachgar and S. Souabi |

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|-------|---|-------|---|--|
| 20406 | Formed sludge in Tannery Wastewater: Modelling By The Experimental Design | 2017 | International Journal of Science and Engineering Investigations | M. Assou, B. Lachgar, A. Madinzi and S. Souabi |
| 20612 | Photovoltaic conversion efficiency of InN/In _x Ga _{1-x} N quantum dot intermediate band solar cells | 2017 | Physica B | N. Ben Afkir , E. Feddi , F. Dujardin , M. Zazoui , J. Meziane |
| 22299 | Optical Transitions in Strained Wurtzite GaN Ultrathin Quantum Disk Under Hydrostatic Pressure Effects | 2017 | Current Nanoscience | El-Yadri M., Aghoutane N., El Aouami A., Feddi E., Zazoui M., Dujardin F., Restrepo R. L., Duque C. A. |
| 25116 | Electromagnetically induced absorption in detuned stub waveguides: a simple analytical and experimental model | 2014 | J. Phys.: Condens. Matter 26 (2014) 505901 | A Mouadili, E H El Boudouti, A Soltani, A Talbi, B Djafari-Rouhani, A Akjouj and K Haddadi |
| 25147 | Comparative study for highly Al and Mg doped ZnO thin films elaborated by sol gel method for photovoltaic application | 2017 | Journal of Applied Physics 1 | El Hallani G., Nasih S., Fazouan N., Liba A., Khuili M., Sajieddine M., Mabrouki M., Laanab L., Atmani E. H. |
| 25161 | Second and third-order nonlinear optical behavior of natural pigment: chlorophyll and crocin | 2017 | IONICS | A. Karakas & M. Karakaya & M. Taser & Y. Ceylan & A.K. Arof & Y. El Kouari & B. Sahraoui |
| 25162 | Spin-coated nickel doped cadmium sulfide thin films for third harmonic generation applications | 2017 | Journal of Alloys and Compounds | T. Chtouki, Y. El Kouari, B. Kulyk, A. Louardi, A. Rmili, H. Erguig, B. Elidrissi, L. Soumahoro, B. Sahraoui |
| 25203 | Performance of a new MPPT method for photovoltaic systems under dynamic solar irradiation profiles | 2017 | Energiy Procedia | Hafsa Abouadane, Abderrahim Fakkar, Youssef Elkouari, David Ouoba |

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| 25222 | Sizing of a photovoltaic water pumping system and improving with a fuzzy logic based maximum power point tracking in Mohammedia | 2015 | IEEE | David Ouoba, Abderrahim Fakkar, Fayrouz Dkhichi, Amina Achalhi, Benyounes Oukarfi, Zakaria Sabiri |
| 25224 | Effect of substrate temperature on the stress and blue light emission | 2015 | IEEE | Zouhair SOFIANI |
| 25226 | DFT Study of Physical Properties of Wurtzite, Zinc blende, and Rocksalt Phases of Zinc oxide using GGA and TB-mBJ Potential | 2015 | IEEE | Nejma Fazouan |
| 25227 | Intelligent Control in Photovoltaic systems by Neural Network | 2015 | IEEE | Benyounes OUKARFI |
| 25228 | Structural and Optical Properties of ZnO Thin Films Prepared by Spin Coating Method | 2015 | IEEE | Nejma Fazouan |
| 26594 | Self-assembled antireflection coatings for light trapping based on SiGe random metasurfaces | 2018 | PHYSICAL REVIEW MATERIALS | Mohammed Bouabdellaoui, Simona Checcucci, Thomas Wood, Meher Naffouti, Robert Paria Sena, Kailang Liu, Carmen M. Ruiz, David Duche, Judikael le Rouzo, Ludovic Escoubas, Gerard Berginc, Nicolas Bonod, Mimoun Zazoui, Luc Favre, Leo Metayer, Antoine Ronda, Isabelle Berbezier, David Grosso, Massimo Gurioli, Marco Abbarchi |
| 26924 | The Comparison and Analysis of the DFIG Behavior Under PI, Fuzzy and | 2018 | International Review of Automatic Control | Hicham Lhachimi, Yassine Sayouti, Youssef Elkouari |

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| | Sliding Mode Controllers for Wind Energy Conversion System in the Grid Connected Mode | | | |
| 26925 | Optimal improvement of direct power control strategy based on sliding mode controllers | 2018 | Computers and Electrical Engineering | Hicham Lhachimi, Yassine Sayouti, Youssef Elkouari |
| 27008 | Photonic demultiplexer based on electromagnetically induced transparency resonances | 2018 | J. Phys. D: Appl. Phys | A. Mouadili, E.H. El Boudouti, A Soltani, A. Talbi, K. Haddadi, A. Akjouj and B. Djafari Rouhani |
| 27017 | Characteristics and parameters extracting of sub cells in dual-junction solar cells via capacitance-voltage measurement | 2018 | IEEE Renewable Energies, Power Systems & Green Inclusive Economy (REPS-GIE) | M.A.Kinani, A. Amine ; Y. Mir ; M. Zazoui ; E. Feddi |
| 27149 | Photovoltaic conversion efficiency of InN/In _x Ga _{1-x} N quantum dot intermediate band solar cells | 2018 | Physica B: Physics of Condensed Matter | N. Ben Afkir, E. Feddi, F. Dujardin, M. Zazoui, J. Meziane |
| 27162 | Control and diagnostic of the complex impedance of selected perovskite compounds | 2017 | Opt Quant Electron | Amal Tarbi E. H. Atmani M. A. Sellam |
| 27164 | Control strategy of DFIG for wind energy system in the grid connected mode | 2017 | International Review of Automatic Control | H. LHACHIMI, Y. EL KOUARI, Y. SAYOUTI |
| 27165 | Effect of lithium on linear and nonlinear optical properties of Sn-doped zinc oxide prepared by spray pyrolysis | 2017 | Materials Science and Engineering | A Rherari , M Addou, Z Sofiani , M El jouad , M Jbilou and M Diani |

| ID | Intitulé | Année | Journal | Auteurs |
|-------|--|-------|---|--|
| 27166 | Gradual Band Energy to Passivate the Window Layer in Solar Cells | 2017 | Smart Grid and Renewable Energy | A. Amine, M. Bouabdellaoui, K. Zaz, Y. Mir, M. Zazoui |
| 27167 | . Nonlinear optical properties of some selected highly conjugated molecules based on TTF for optoelectronics applications | 2017 | IEEE | Taboukhat, M. Lougdali, Y. El Kouari, A. Zawadzka, A. Ayadi , A. El-Ghayoury, Y. Boughaleb, and B. Sahraoui |
| 28737 | One-photon Absorption Characterizations, Dipole Polarizabilities and Second Hyperpolarizabilities of Chlorophyll a and Crocin | 2018 | OPEN CHEMISTRY | A. Karakas, Y. Ceylan*, M. Karakaya, M. Taser, B. B. Terlemez, N. Eren, Y. El Kouari, M. Lougdali, A. K. Arof, B. Sahraoui |
| 28777 | theoretical diagnostic and prediction of physical properties of quaternary InGaAsP compound using artificial neural networks optimized by the levenberg maquardt algorithm | 2018 | Optical and quantum electronics | Amal Tarbi E. H. Atmani M. A. Sellam, Meriem lougdali, Youssef elkouari, Anna migalska-zalas |
| 29380 | Modeling with Matlab/ simulink of a wind turbine connected to a generator asynchronous dual power (GADP) | 2017 | Journal of materials and environmental sciences | B. benyachou, S. Men-la-yakhaf, B. Bahrar, M. tamani |
| 29381 | Modeling & control of a variable velocity wind turbine connected to a doubly fed induction generator (DFIG) | 2018 | International review of Mechanical engineering | B. benyachou, B. Bahrar, K. Gueraoui |
| 29399 | Fabrication and electrical characterization of solar cells based on poly (o-toluidine), oligothiophene derivatives and nanostructured metal | 2018 | Journal of Chemical, Biological and Physical Sciences | A. El Mansouri, A. Outzourhit, L. Nkhaili, A. Elkissani, M. Hmeyene, M. Zazoui, H. Ez-zahraouy, M. Assouag, A. Essamri, A. Elharfi |

| ID | Intitulé | Année | Journal | Auteurs |
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| | oxide | | | |

*Publications avec comité de lecture

| ID | Intitulé | Année | Journal | Auteurs |
|-------|---|-------|--|---|
| 873 | Identification of photovoltaic cell model by neural network | 2014 | Revue Méditerranéenne des Telecommunications (RMT) | Dkhichi F., Oukarfi B., Fakkar A., El Kouari Y. |
| 17732 | Dynamical contribution of Mean Potential Vorticity pseudo-observations, derived from MetOp/GOME2 Ozone data into weather forecast, a Mediterranean High Precipitation Event study | 2015 | Geophysical Research EGU General Assembly Vol. 17, EGU2015-2539 | Siham Sbii, Mimoun Zazoui, and Nouredine Semane |
| 17733 | Modelling and simulation of InAs quantum dots grown on GaAs substrate for optical performances enhancing, | 2014 | 2ème conférence Internationale des énergies renouvelables CIER-2014, At Tunisie, Volume: Proceedings | A. BENAHMED, A. AISSAT1, R. BESTAM, A. SELLAM, M. A. BENAMAR, M. ZAZOUI |

*Communications internationales

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-----|---|--------------------------------------|--|-----------|-------|------------|
| 881 | Neural network based integration of MPPT and diagnosis of | Dkhichi F., Oukarfi B., El Kouari Y. | 13th International Conference on Frontiers of Polymers and | Marrakech | maroc | 2015-03-30 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-----|---|--|---|------------|-------|------------|
| | degradation for photovoltaic module | | Advanced Materials (ICFPAM-2015) | | | |
| 882 | Intelligent Control in Photovoltaic systems by Neural Network | Dkhichi F., Oukarfi B. | International Conference on Intelligent Systems and Computer Vision (ISCV'15) | Fès | maroc | 2015-03-25 |
| 885 | Levenberg-Marquardt Algorithm for Parameter Identification of Solar Cell Model | Dkhichi F., Oukarfi B. | XXIth Annual Seminar on Automation, Industrial Electronics and Instrumentation (SAAEI'14) | Tanger | maroc | 2014-06-25 |
| 887 | Identification of photovoltaic cell model by neural network | Dkhichi F., Oukarfi B., Fakkar A., El Kouari Y. | Congrès Méditerranéen de Télécommunication (CMT'14) | Mohammedia | maroc | 2014-05-22 |
| 889 | Effect of number of hidden neurons on the performance of the photovoltaic cell model | Dkhichi F., Oukarfi B., Fakkar A., Belbounaguia N. | Congrès Méditerranéen de Telecommunication (CMT'14) | Mohammedia | maroc | 2014-05-22 |
| 891 | Performance of the Levenberg-Marquardt Neural network training algorithms in parameter determination of Photovoltaic Cell | Dkhichi F., Oukarfi B. | International Conference on Intelligent Information and Network Technology (IC2INT) | Settat | maroc | 2013-11-13 |
| 904 | Parametric identification by minimizing the squared residuals | Oukarfi B., Dkhichi F., Fakkar A. | The International Renewable and Sustainable Energy | Ouarzazate | maroc | 2013-03-07 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|------|---|---|-----------------------|-----------|-------|------------|
| | (Application to a photovoltaic cell) | | Conference (IRSEC'13) | | | |
| 1742 | Electro-optic and dielectric properties of polymer networks stabilized ferroelectric liquid crystal | J. Hemine, M. Srouf, M. Ismaili, C. Legrand, R. Douali, A. Daoudi | 13th ICFPAM | Marrakech | Maroc | 2015-03-30 |
| 1744 | Structural and electro-optical properties of a ferroelectric liquid crystal material stabilized by an anisotropic polymer network | J. Hemine, M. Ismaili, M. Petit, A. Daoudi | AMPSECA | El Jadida | Maroc | 2012-12-05 |
| 1746 | Linear and non linear dielectric spectroscopy of polymer stabilized by a short helical pitch ferroelectric liquid crystal | J. Hemine, A. El kaaouachi, R. Douali, J.M. Leblond, C. Legrand, Y. Cherfi, A. Daoudi | IMDM 4 | Marrakech | Maroc | 2013-05-29 |
| 1748 | Electro-optical and dielectric characterizations of electroclinic effect near to N*-SmA-SmC* multicritical point | J. Hemine, A. Daoudi, C. Legrand, A. El kaaouachi, A. Nafidi | IMDM 4 | Marrakech | Maroc | 2013-05-29 |
| 1751 | Structural, electro-optical and dielectric properties of a ferroelectric liquid crystal stabilized by a | J. Hemine, A. El kaaouachi, R. Douali, C. Legrand, M. Ismaili, A. Daoudi | Liquid Crystals GRC | Biddeford | USA | 2013-06-16 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|------|---|--|--------------------------------|------------|-------|------------|
| | polymer network | | | | | |
| 1757 | Erbium doped silica-titania planar waveguides for 1.5 mm application in C band of telecommunication | A. Bouajaj, R. R. Gonçalves, M. Ferrari, J. Hemine | 12ième ICCMSP | Errachidia | Maroc | 2013-10-30 |
| 1760 | Electro-optic and dynamic properties of ferroelectric liquid crystal materials | J. Hemine, A. Bouajaj, C. Legrand, A. Nafidi, A. El kaaouachi, A. Daoudi | 12ième ICCMSP | Errachidia | Maroc | 2013-10-30 |
| 1763 | Optical, electro-optical and dielectric spectroscopy of polymer stabilized ferroelectric liquid crystals | J. Hemine, A. Daoudi, A. Bouajaj, M. Ismaili, R. Douali, C. Legrand | 12ième ICCMSP | Errachidia | Maroc | 2013-10-30 |
| 1768 | Effective mass and Landé g factor in Si-MOFSETs near the critical density | J. Hemine, A. El kaaouachi, L. Limouny, C.T. Liang | Defects in Semiconductors, GRC | Waltham | USA | 2014-08-03 |
| 1770 | Percolation type metal insulator transition in 2D p-SiGe | A. El kaaouachi, J. Hemine, S. Dlimi | Defects in Semiconductors, GRC | Waltham | USA | 2014-08-03 |
| 1776 | Electro-optic and dielectric spectroscopy of electroclinic effect in the ferroelectric liquid crystal materials | A. El kaaouachi, J. Hemine, M. Srout, A. Daoudi, C. Legrand | 15th ISE | Baltimore | USA | 2014-08-10 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|------|--|--|---------------------------|-------------|------|------------|
| 1778 | Optical, Electro-optical and Dielectric Spectroscopy of Polymer Stabilized Ferroelectric Liquid Crystals | J. Hemine, A. Daoudi, A. El kaaouachi, M. Ismaili, R. Douali, C. Legrand | 15th ISE | Baltimore | USA | 2014-08-10 |
| 1780 | Crossover from Efros-Shklovskii to Mott variable range hopping in amorphous thin NixSi1-x films' | J. Hemine, M. Errai, A. El kaaouachi | Spie Optics and Photonics | San Diego | USA | 2014-08-19 |
| 1783 | Optical, electro-optical, and dielectric spectroscopy of polymer stabilized ferroelectric liquid crystals | J. Hemine, A. Daoudi, A. El kaaouachi, M. Ismaili, R. Douali, C. Legrand | Spie Optics and Photonics | San Diego | USA | 2014-08-19 |
| 1786 | Dielectric characterizations of electroclinic effect near to N*-SmA-SmC* multicritical point | A. El kaaouachi, J. Hemine, A. Daoudi, C. Legrand | Spie Optics and Photonics | San Diego | USA | 2014-08-19 |
| 1789 | Crossover from Efros-Shklovskii to Mott Variable Range Hopping Conduction in Amorphous Thin NixSi1-x Films | J. Hemine, M. Errai, A. El kaaouachi | 32th ICPS | Austin | USA | 2014-08-10 |
| 1792 | Contribution of weak | J. Hemine, A. El | 21th ICHMFSP | Panama City | USA | 2014-08-03 |

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|-------|---|--|--|------------|-------------|------------|
| | localization and electron-electron interaction, in corrective term "mT ^{1/2} " of the metallic conductivity in n-type SiAs with magnetic field | kaaouachi | | Beach | | |
| 1794 | Dynamic studies of ferroelectric liquid crystal materials | J. Hemine, A. Bouajaj, A. Daoudi, C. Legrand , A. El kaaouachi | 13th ICFPAM | Marrakech | Maroc | 2015-03-30 |
| 7889 | Density Functional Approach to Study Structural and Electronic Properties of Nanostructures Based II-VI Semiconductors | A. Rachidi, E.H.Atmani | THE THIRD EURO-MEDITERRANEAN CONFERENCE ON MATERIALS AND RENEWABLE ENERGIES (EMCMRE-3) | Marrakech | Morocco | 2015-11-02 |
| 7891 | Ab-initio calculation and the study of structural and electronic properties of nanostructures based II-VI semiconductors | A. Rachidi, E.H.Atmani | International Symposium on Nanotechnologies : Research, Innovation and Economic Challenges | Casablanca | Morocco | 2015-10-28 |
| 8314 | The normal state of optimally doped and undoped high T _c superconductors | EL AZRAK ABDELLATIF | 11th international conference on materials and mechanisms of superconductivity | Geneve | Switzerland | 2015-08-23 |
| 16417 | Mesure de la racine carrée moyenne (RMS) des fluctuations de température le long d'un | S. Borji, M. Benzirar, L. Sabri, M. Bouabdellaoui | Colloque francophone Combustion et Pollution Atmosphérique | Saïdia | Maroc | 2016-04-12 |

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|-------|--|--|--|---------------|--------------------------|------------|
| | jet plan turbulent en utilisant une méthode optique | | | | | |
| 16428 | Estimation of Hourly Global Solar Radiation for Ouarzazate, Morocco using ASHRAE Model | L. Sabri, M. Benzirar & M. Zazoui | 1st International conference on Materials and Environmental Science | Oujda | Maroc | 2016-03-01 |
| 16821 | Behavior of Neural Network MPPT Technique on a PV System Operating under Variable Load and Irradiation | Dkhichi Fayrouz, Oukarfi Benyounes , Ouoba David , Fakkar Abderrahim , Achalhi Amina | Conférence Internationale en Sciences et Technologies Électriques au Maghreb - CISTEM'16 | Marrakech | Maroc | 2016-10-26 |
| 16837 | Peformances of Artificial Neural Network Combined with Perturb & Observe Technique in Maximizing the Photovoltaic System Power | Dkhichi Fayrouz , Oukarfi Benyounes , El Kouari Youssef , Ouoba David , Fakkar Abderrahim , Zakaria Sabiri | International Renewable and Sustainable Energy Conference (IRSEC'16) | Marrakech | Maroc | 2016-11-14 |
| 17372 | Dielectric spectroscopy of electroclinic effect in the ferroelectric liquid crystal materials | HEMINE JAMAL | 26th International Liquid Crystal Conference | KENT (OHIO) | United States of America | 2016-07-31 |
| 17373 | Electro-optical and Dielectric Spectroscopy of Ferroelectric Liquid Crystal Materials | HEMINE JAMAL | First International Symposium on Dielectric Materials and Applications | Kenitra-Rabat | Morocco | 2016-05-04 |
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|-------|---|--|---|---------------|---------|------------|
| 17374 | Dielectric properties of polymer networks stabilized ferroelectric liquid crystal | HEMINE JAMAL | First International Symposium on Dielectric Materials and Applications | Kenitra-Rabat | Morocco | 2016-05-04 |
| 17375 | Rare-earth and silver nanoparticles doped silica-hafnia glass and glass ceramic for silicon solar cell efficiency enhancement | HEMINE JAMAL | First International Symposium on Dielectric Materials and Applications | Kenitra-Rabat | Morocco | 2016-05-04 |
| 17406 | Study by Ab-Initio Simulation of Structural, Optical and Electrical Transport Properties of Pure ZnSe in the Cubic Phase Zinc-Blende (B3) | A. Rachidi, E.H. Atmani, N. Fazouan and Z. Mahouti | Nanotech Dubai 2016 & GAMS 2016 Joint International Conferences | DUBAI | UAE | 2016-12-05 |
| 17477 | Study by Simulation Ab-initio of the Structural, Opto-electronic and Electrical Transport Properties of the Pure ZnSe in the Cubic Phase Zinc Blende (B3) | • A.Rachidi, E.H.Atmani, N.Fazouan | International Symposium on Structure-Property Relationships in Solid State Materials, SPSSM | Nantes | France | 2016-07-01 |
| 17478 | Density Functional Approach To Study Structural and Electronic Properties of Nanostructures based on | A.Rachidi, E.H.Atmani, N.Fazouan | The First International Conference On Solar Energy and Materials, ICSEMA 2016 | Marrakech | Morocco | 2016-03-21 |

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|-------|--|---|---|-----------|---------|------------|
| | II-VI Semiconductors | | | | | |
| 17479 | ELABORATION AND CHARACTERIZATION OF Zn(1-x)MgxO ($0 \leq x \leq 0.25$) STRUCTURAL AND OPTICAL PROPERTIES | NASIH SAID, EL HALLANI GHIZLAN, FAZOUAN NEJMA, LIBA AHMED, ATMANI EL HOUSSINE | The First International Conference On Solar Energy and Materials, ICSEMA 2016 | Marrakech | Morocco | 2016-03-21 |
| 17481 | DFT STUDY OF STRUCTURAL AND ELECTRONIC PROPERTIES OF ZNO CUBIC PHASES | ES-SMAIRI ADIL , KHUILI MOHAMED , FAZOUAN NEJMA , ATMANI EL HOUSSINE | The First International Conference On Solar Energy and Materials, ICSEMA 2016 | Marrakech | Morocco | 2016-03-21 |
| 17482 | EFFICIENCY DOPING OF ZINC OXIDE THIN FILMS BY ALUMINUM (AL: ZNO) FOR PHOTOVOLTAIC DEVICES | JANNANE TARIQ , AHMED LIBA , NEJMA FAZOUAN. | The First International Conference On Solar Energy and Materials, ICSEMA 2016 | Marrakech | Morocco | 2016-03-21 |
| 17483 | SOL GEL ELABORATION OF TIN DOPED ZINC OXIDE (SZO): EFFECT OF DOPING ON STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES | MANOUA MOHAMED, JANNANE TARIQ, LIBA AHMED, FAZOUAN NEJMA, BOUAJAJ ADIL | The First International Conference On Solar Energy and Materials, ICSEMA 2016 | Marrakech | Morocco | 2016-03-21 |
| 17565 | Structural and Electronic Properties of ZnO in Wurtzite Phase : DFT Study | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim | 4 th International Summer School on Quantum Electronic Calculations | Rabat | Maroc | 2014-06-09 |
| 17566 | DFT study of structural | Khuili Mohammed, | 2ème Ecole de Corrosion | Fès | Maroc | 2014-12-17 |

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|-------|--|--|--|------------|-------|------------|
| | and electronic properties of ZnO phases | Fazouan Nejma, Abou El Makarim Hassna | sous le thème : Etude Expérimentale et Approche Quantique | | | |
| 17578 | First principles study of (Mg,Al)-codoped ZnO with GGA and mBJ approximations | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim, El Houssine Atmani | 5th International Workshop, Smart Materials & Structures SMS5 | Marrakech | Maroc | 2015-09-09 |
| 17580 | DFT Study of Physical Properties of Wurtzite, Zinc blende, and Rocksalt Phases of Zinc oxide using GGA and TB-mBJ Potential | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim | 3rd International Renewable and Sustainable Energy Conference (IRSEC'15) | Marrakech | Maroc | 2015-12-10 |
| 17582 | First principle study of structural, electronic, optical and electrical properties of Ga doped ZnO with GGA and mBJ approximations | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim, El Houssine Atmani | 3rd Euro-Mediterranean Conference on Materials and Renewable Energies (EMCMRE-3) | Marrakech | Maroc | 2015-11-02 |
| 17584 | DFT study of Rare Earth (Tm, Yb, Ce) doped ZnO on structural, optoelectronic and electrical properties | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim, Ghizlan El Hallani | Les Matériaux Innovants et leurs Applications (JMAT 2016) | Oujda | Maroc | 2016-04-21 |
| 17585 | Study of physical properties of F doped ZnO with GGA and mBJ approximations | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim, Ghizlan El Hallani | International Meeting on Nano and Smart Materials (NASMARE'2016) | Casablanca | Maroc | 2016-04-28 |

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|-------|--|---|--|-------------|-------|------------|
| 17586 | Elaboration et Caractérisation de Couches Minces d'Oxyde de Zinc pour des Applications en Photovoltaïque | El Hallani Ghizlan, Fazouan Nejma, Liba Ahmed | Université de Printemps sur l'Efficacité Energétique | Béni Mellal | Maroc | 2016-04-11 |
| 17587 | Structural and optical properties of ZnO thin films prepared by spin coating method | El Hallani Ghizlan, Fazouan Nejma, Liba Ahmed, Larbi Laanab | 2014 International Renewable and Sustainable Energy Conference (IRSEC'14) | Ouarzazate | Maroc | 2014-10-17 |
| 17614 | Investigation of the influence of the sol aging time on the structural, optical and electrical properties of ZnO thin films prepared by sol-gel method | G. El Hallani, N. Fazouan, A. Liba, M. Sajieddine, E.H. Atmani, L. Laanab | 1st International Conference on Solar Energy and Materials (ICSEMA 2016) | Marrakech | Maroc | 2016-03-21 |
| 17650 | The effects of sol aging time on structural and optical properties of sol gel ZnO doped Al | G. El Hallani, N. Fazouan, A. Liba | 3rd Euro-Mediterranean Conference on Materials and Renewable Energies (EMCMRE-3) | Marrakech | Maroc | 2015-11-02 |
| 17651 | Effect of the precursor concentration on structural properties of ZnO films : Application to gaseous sensors | G. El Hallani, N. Fazouan, A. Liba | 5ème colloque Bioadhésion et Biocontamination des surfaces | Béni Mellal | Maroc | 2015-05-05 |
| 17652 | Effect of different | G. El Hallani, N. Fazouan, | 5th International | Marrakech | Maroc | 2015-09-09 |

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|-------|---|--|--|----------------|----------|------------|
| | molarities on structural, optical and electrical properties of ZnO thin films elaborated by spin coating method | A. Liba, M. Sajieddine, L. Laanab, E. H. Atmani | Workshop, Smart Materials & Structures SMS5 | | | |
| 17666 | Second and third-order nonlinear optical behavior of natural pigment: chlorophyll and saffron | Asli Karakas, Mustafa Karakaya, Mehmet Taşer, Y. Ceylan, A K Arof, Youssef El Kouari, Bouchta Sahraoui | International Symposium o, Materials & Assets Integrity 2016 | KUALA LUMMPUR, | MALAYSIA | 2016-05-18 |
| 17667 | The window layers effect on the hardness improvement of space solar cells exposed to the 1 MeV electron irradiations | Y. Mir, A. Amine, and M. Zazoui | Solar Electricity Conference & Exhibition | Antalya, | Turquie | 2014-10-25 |
| 17669 | Dynamical contribution of Mean Potential Vorticity pseudo-observations, derived from MetOp/GOME2 Ozone data into weather forecast, a Mediterranean High Precipitation Event study | Siham Sbi, Mimoun Zazoui, and Nouredine Semane | Union européenne des géosciences, Assemblée générale 2015 | Vienne | Autriche | 2015-04-12 |
| 17671 | Calculation of the temperature fluctuations in a heated turbulent jet | Borji sara, Mohammed Benzirar | " International Conference Computational and | ATALYA | Turkey | 2014-10-25 |

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|-------|--|---|--|------------------|------------------|------------|
| | plane in particular case | | Experimental Science and Engineering | | | |
| 17672 | Dual-junction Solar Cells: tunnel junction and electrical modelling | A. Amine, M. Bouabdellaoui, Y. Mir and M. Zazoui | » 2nd Euro-Mediterranean Conference on Materials and Renewable Energies (EMCMRE-2) | FRANCE. | FRANCE. | 2013-06-14 |
| 17674 | Capacitance-Measurements to Extract Parameters of the Subcell in multijunction solar cells | 57. Abdelaziz Amine, Yamina Mir, Abdelkrim Oukerroum, Mohammed Addou, mimoun zazoui | The Fourth International Renewable Energy Congress Sousse Tunisie. | Tunisie | Tunisie | 2013-12-20 |
| 17675 | The window layers effect on the hardness improvement of space solar cells exposed to the 1 MeV electron irradiations | Y. Mir, A. Amine, and M. Zazoui | Solar Electricity Conference & Exhibition Antalya, Turquie | Antalya, Turquie | Antalya, Turquie | 2014-02-09 |
| 17676 | Using METOP/GOME-2 data and MSG ozone data as Potential Vorticity pseudo-observations | S. Sbihi, N. Semane, Y. Michel, P. Arbogast, and M. Zazoui | European Geosciences Union General Assembly, Vienna. | Vienna | Vienna | 2013-04-27 |
| 17735 | Modeling of p / n GaAs solar cell with inhomogeneous doping using finite difference Method | E. Chahid, K. Zazi and M. Zazoui | Nano-TN 2015, Hammamet-Tunisia | Hammamat | Tunisie | 2015-02-05 |

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|-------|---|--|--|------------|----------|------------|
| 17736 | Gradual band energy to passivate the window layer in solar cells | AMINE, M. BOUABDELLAOUI, Y. MIR, E. FEDDI, M. ADDOU, M. ZAZOUI | International Conference on MATERIALS & ENERGY | Tetouan | Maroc | 2015-05-19 |
| 17737 | Analysis of multi junction solar cells at different temperatures by considering a model including tunnel junction effect | Y. MIR, M. BOUABDELLAOUI, A. AMINE, E. FEDDI, M. ADDOU, M. ZAZOUI | 13th INTERNATIONAL CONFERENCE on FRONTIERS of POLYMERS & ADVANCED MATERIALS | Marrakech | Maroc | 2015-03-19 |
| 17738 | Dynamical contribution of Mean Potential Vorticity pseudo-observations, derived from MetOp/GOME2 Ozone data into weather forecast, a Mediterranean High Precipitation Event study | Siham Sbi, Mimoun Zazoui, and Nouredine Semane | Union européenne des géosciences, Assemblée générale 2015 | Vienne | Autriche | 2015-04-12 |
| 17739 | Siham Sbi, Mimoun Zazoui, and Nouredine Semane | Siham Sbi, Mimoun Zazoui, and Nouredine Semane | 12ème Congrès De Mécanique | casablanca | Maroc | 2015-04-21 |
| 17740 | Numerical simulation of the gradual window layers effect on Sensitivity GaAs solar cell to 1 MeV electron irradiation | Amine Abdelaziz, Mir Yamina, Mezghani Salma, Zazoui Mimoun | The fifth International Renewable Energy Congress (IREC'2014) | Hammamat | Tunisie | 2014-03-27 |

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|-------|--|---|---|-------------|-------|------------|
| 17742 | Numerical simulation of the gradual window layers effect on Sensitivity GaAs solar cell to 1 MeV electron irradiation | A. Amine, Y. Mir and M. Zazoui | Numerical simulation of the gradual window layers effect on Sensitivity GaAs solar cell to 1 MeV electron irradiation | Errachdia | Maroc | 2013-10-30 |
| 17743 | Analysis of multi-junction solar cells via the capacitance-voltage characteristics, | Amine, Y. Mir and M. Zazoui | 12th International Conference on Condensed Matter and Statistical Physics (ICCMSP) | Errachdia | Maroc | 2013-10-30 |
| 17744 | Modelling of the courant-voltage characteristics of solar cells of high concentration of generation-recombination centres and different concentrations of deep traps | Y. Mir, A. Amine, M. Bouabdellaoui, J. Meziane, M. Assou and M. Zazoui | 12th International Conference on Condensed Matter and Statistical Physics (ICCMSP) | Errachdia | M | 2013-10-30 |
| 17745 | Analysis of multi-junction solar cells via the capacitance-voltage characteristics | Amine, Y.Mir , A. Oukerroum and M. Zazoui | International Congress on Materials & Structural Stability Congrès International Matériaux & Stabilité Structurelle | Rabat | Maroc | 2013-11-27 |
| 17887 | Elaboration et Etude des Propriétés Physiques des Nanostructures de ZnO | S. Nasih, G. El Hallani, N. Fazouan, A. Liba, E. H. Atmani, M. Sajieddine, H. | Forum International sur les Changements climatiques | Béni Mellal | Maroc | 2016-10-17 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-------|---|---|--|-------------|-------|------------|
| | Non Dopées et Dopées pour le Photovoltaïque | Agouriane, L. Laanab | | | | |
| 17888 | Elaboration et Caractérisation de Couches Minces d'Oxyde de Zinc (ZnO) Non Dopées et Dopées pour des Applications en Photovoltaïque | G. El Hallani, T. Jannane, N. Fazouan, A. Liba, M. Sajieddine, M. Mabrouki | Forum International sur les Changements climatiques | Béni Mellal | Maroc | 2016-10-18 |
| 17889 | Elaboration de Couches Minces d'Oxyde de Zinc dopées Etain (SZnO) pour Electrodes de Cellules Solaires | M. MANOUA, T. JANNANE, A. LIBA, N. FAZOUAN, H. AGOURIANE, A. BOUAJAJ | Forum International sur les Changements climatiques | Béni Mellal | Maroc | 2016-10-18 |
| 19713 | Modélisation de la contrainte pariétale dans un écoulement transitoire et laminaire en conduite à l'aide d'un développement polynômial. | S. 1Hamdoun, O. 1Rkibi, B. 2Benyachou, H. 1Samri, M. 1Tamani, E.L. 1Achouyab, B. 1Bahrar | 13ème Congrès de Mécanique | Meknes | Maroc | 2017-04-11 |
| 19714 | ANALYSE NUMERIQUE DE LA RÉPONSE DES PIEUX SOUS SOLLICITATIONS LATÉRALES | F. Ait Ouhrouch ¹ , B. Benyachou ¹ , B. Bahrar ² , K. Gueraoui ¹ , E. Achouyab ² | CIMOSM2017 05-06 Décembre 2017 (FST-Fès, MAROC) | Fes | Maroc | 2017-12-05 |
| 20392 | Removal Colour From Tannery Wastewater: Modelling The | M. Assou, B. Lachgar, S. Souabi et A. Madinzi | International Conference on Advances in Energy Technologies, | Mohammedia | Maroc | 2017-07-10 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-------|---|--|--|------------|-------|------------|
| | Absorbance At 254 Nm By The Experimental Design | | Environemental Engineering and Materials Science | | | |
| 20393 | Study of the different methods of passive cooling of the photovoltaic panels | Fatima Azzahraâ KABIL, Mohammed ASSOU, Benyounes OUKARFI | International Conference on Advances in Energy Technologies, Environemental Engineering and Materials Science | Mohammedia | Maroc | 2017-07-10 |
| 20607 | DFT study of zinc sulfide (ZnS) phases: stability, structural, electronic and optical properties | Adil es-smairi, ibrahim bziz, mohamed aazi, hassan grimech, nejma fazouan, el housine atmani | International conference on advanced materials for photonics, sensing and energy application | AGADIR | maroc | 2017-03-28 |
| 20610 | Numerical modeling of the quantum dots intermediate band solar cell with the finite difference approach | Noureddine ben afkir, jaafar meziane, el mostapha feddi, and mimoun zazoui | » International conference on advances in energy technologies, environmental | Mohammedia | maroc | 2017-07-10 |
| 20611 | An investigation of electronic and optical transition of InGaN/ GaN spherical quantum dots | - Noureddine ben afkir, jaafar meziane, el mostapha feddi, and mimoun zazoui | International conference on advanced materials for photonics, sensing and energy application | AGADIR | maroc | 2017-03-28 |
| 20615 | Calculation of the diffusion coefficient and the root mean square of temperature in a heated turbulent medium using | S. Borji, M. Benzirar, | International conference on advances in energy technologies, environmental held | Mohammedia | maroc | 2017-07-10 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-------|---|---|--|------------|-------|------------|
| | an optical method | | | | | |
| 25122 | Study tools based on artificial intelligence for predicting the poweroutput of photovoltaic panels according to meteorological parameters | Hamza Ali-Ou-Salah, Benyounes OUKARFI, Youssef EL KOUARI | International Conference on advanced materials for Photonics and Energy Applications | Agadir | Maroc | 2017-03-28 |
| 25123 | Comparative study of methods for predicting the power output of photovoltaic panels based on artificial neural network according to meteorological parameters | Hamza Ali-Ou-Salah, Benyounes OUKARFI, Youssef EL KOUARI | International Conference on advances in energy technologies, environnemental engineering and materials science (ATEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25127 | Implementation of artificial intelligence for the management of a multi-source renewable energy system | Aoukach Basma, OUKARFI Benyounes | International Conference on advanced materials for Photonics and Energy Applications | Agadir | Maroc | 2017-03-28 |
| 25130 | Implementation of fuzzy logic for the management of a multi-source renewable energy system | AOUKACH Basma, OUKARFI Benyounes, FAKKAR Abderrahim, ELKOUARI Youssef | International Conference on advances in energy technologies, environnemental engineering and materials science | Mohammedia | Maroc | 2017-07-10 |

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|-------|--|---|---|------------|-------|------------|
| | | | (ATEEMS 2017) | | | |
| 25132 | Characterization study of transparent thin films of Mg doped ZnO elaborated by spin coating method | S. Nasih, G. El Hallani, N. Fazouan, E. H. Atmani, A. Liba, M. Sajjedine, L. Laanab | International Congress of Environmental Engineering and Renewable Energy ICEERE 2017 | El Jadida | Maroc | 2017-05-10 |
| 25133 | Comparative Study of Structural, Electronic and Optical Properties of Copper Oxide using GGA+U and TB-mBJ approximations | ES-SMAIRI Adil, FAZOUAN Nejma, ATMANI El Houssine, KHUILLI Mohamed | International Congress of Environmental Engineering and Renewable Energy ICEERE 2017 | El Jadida | Maroc | 2017-05-10 |
| 25135 | DFT study of structural and electronic properties of TiO ₂ using GGA and mBJ approximations | Mohamed AAZI, Ibrahim BZIZ, Adil Es-SMAIRI, El Houssine ATMANI, Nejma FAZOUAN | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | Agadir | Maroc | 2017-03-28 |
| 25136 | DFT Study of Structural, Electronic and Optical Properties of Highly Mismatched ZnS _{1-x} O _x Alloys | Adil ES-SMAIRI, Ibrahim BZIZ, Mohamed AAZI, Hassan GRIMECH, Nejma FAZOUAN, El Houssine ATMANI | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25138 | DFT Study of Structural and Electronic Properties of TiO ₂ using GGA and mBJ approximations | Mohamed AAZI, Ibrahim BZIZ, Adil ES-SMAIRI, Hassan GRIMECH, El Houssine ATMANI, Nejma FAZOUAN | International Conference on Advances in Energy Technologies, Environmental Engineering and | Mohammedia | Maroc | 2017-07-10 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-------|---|---|---|------------------|--------|------------|
| | | | Materials Science (AETEEMS 2017) | | | |
| 25139 | Numerical simulation to study the defects on the performance degradation of Phoyovoltaic cells | Bouabdellaoui M., Amine A., Mir Y., Zazoui M. | Les XIIèmes Journées Maghrébines des Sciences des Matériaux | Fés | Maroc | 2015-11-19 |
| 25140 | DFT Study of Structural and Optical Properties of Tin Dioxide (SnO ₂) | Ibrahim BZIZ, Mohamed AAZI, Adil ES-SMAIRI, Hassan GRIMECH, El Houssine ATMANI, Nejma FAZOUAN | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25141 | The effects of temperature and size on the Quantum dots p-i-n solar cell's performance | Amine A., Bouabdellaoui M., Mir Y., Oukerroum A., Zazoui M. | Les XIIèmes Journées Maghrébines des Sciences des Matériaux | Fés | Maroc | 2015-11-19 |
| 25142 | Modeling of p-i-n GaAs solar cells using finite difference Method | El hadi C., Zazoui M. | Les XIIèmes Journées Maghrébines des Sciences des Matériaux | Fés | Maroc | 2015-11-19 |
| 25143 | Elaboration et Etude des Propriétés Physiques des Nanostructures de ZnO non Dopées et Dopées pour le Photovoltaïque | S. Nasih, G. El Hallani, N. Fazouan, E. H. Atmani, A. Liba | Forum International sur les Changements Climatiques | Béni Mellal | Maroc | 2016-10-18 |
| 25144 | Démouillage de couches riches en Ge obtenues | Bouabdellaoui M., Ronda A., Zazoui M., Mir Y., Jadli | Atelier sur les Techniques de | Sophia Antipolis | France | 2017-06-26 |

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|-------|---|---|--|---------|---------|------------|
| | par condensation de structures SGOI | I., David T., Favre L., Abbarchi M., Dutartre D., Berbezier I. | Caractérisation des Nanostructures Semiconductrices | | | |
| 25148 | Acoustic demultiplexer based on symmetric and asymmetric Fano resonances in slender tubes | Mouadili A., El boudouti E. H. | The 1st International Conference on Materials and Environmental Science | Oujda | Maroc | 2016-12-01 |
| 25149 | Demultiplexer based on photonic crystal dielectric materials | Mouadili A. | First International Symposium on Dielectric Materials and Applications | Kenitra | Maroc | 2016-05-04 |
| 25150 | Magnonic analogue of electromagnetic induced transparency in detuned magnetic circuit | Mouadili A. | Third Edition of International Conference on Electrical and Information Technologies | Rabat | Maroc | 2017-11-15 |
| 25174 | Organic and organometallic compounds with various donor-acceptor substituents as nonlinear optical materials: quantum chemical computations | ysun Gözütok, Mustafa Karakaya, Mehmet Taşer, Yusuf Ceylan, Nuretdin Eren, Y. El Kouari, Bouchta Sahraoui, Aslı Karakaş | 4th International Türk-Pak Conference Chemical Sciences (ITPCCS 2017) | Konya | TURKEY | 2017-10-26 |
| 25178 | Nonlinear optical properties of some selected highly conjugated molecules | S. Taboukhat, M. Lougdali, Y. El Kouari, A. Zawadzka, A. Ayadi , A. El-Ghayoury, Y. | 19th International Conference on Transparent Optical Networks ICTON 2017 | Girona | ESPAGNE | 2017-07-02 |

| ID | Intitulé | Auteurs | Conférence | Ville | Pays | Date |
|-------|---|---|---|--------|--------|------------|
| | based on TTF for optoelectronics applications | Boughaleb, and B. Sahraoui | | | | |
| 25179 | Anti-windup principle applied to the pitch control in wind turbine systems | H. LHACHIMI, Y. EL KOUARI, Y. SAYOUTI | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | AGADIR | Maroc | 2017-04-28 |
| 25180 | The enhancement control of a DFIG behavior based wind energy conversion system using the fuzzy logic | H. LHACHIMI, Y. EL KOUARI, Y. SAYOUTI | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | AGADIR | Maroc | 2017-04-28 |
| 25181 | Ab-initio Quantum Mechanical Calculations on Third-order Optical Nonlinearity and Two-photon Absorption of Branched Oligothiénylenevinylene | Asli Karakas, Mustafa Karakaya, Mehmet Taser, Nuretdin Eren, Y. El Kouari, Bouchta Sahraoui | The International conference on Advanced Materials for Photonics, Sensing and Energy Applications (AMPSECA' 2017) | AGADIR | Maroc | 2017-04-28 |
| 25182 | Theoretical investigations of third-order nonlinear optical behaviour of p-N-N'-dimethylaniline tetrathiafulvalene derivatives | Asli Karakas, Mustafa Karakaya, Mehmet Taser, Nuretdin Eren, Y. El Kouari, Bouchta Sahraoui | The International conference on Advanced Materials for Photonics, Sensing and Energy Applications (AMPSECA' 2017) | AGADIR | Maroc | 2017-04-28 |
| 25183 | Theoretical investigations on the | Aysun Gözütok, Mustafa Karakaya, Mehmet Taşer, | 4th International Türk-Pak Conference Chemical | Konya | TURKEY | 2017-10-26 |

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|-------|--|--|--|------------|-------|------------|
| | nonlinear optical characterizations of tetrathiafulvalene-based compounds | Yusuf Ceylan, Nuretdin Eren, Berna Betül Terlemez, Y. El Kouari, Bouchta Sahraoui, Asli Karakaş, | Sciences (ITPCCS 2017) | | | |
| 25185 | A theoretical model for thermoelectric generator design in a hybrid TE/PV system | El Mliles M., Hajjaji A. | Advanced Materials for Photonics, Sensing and Energy Applications | Agadir | Maroc | 2017-03-30 |
| 25186 | Energetic and exergetic analysis and performance evaluation of a photovoltaic-thermoelectric hybrid system | El Mliles M., Hajjaji A., EL KOUARI Y | Advances in Energy Technologies, Environmental Engineering and Materials Science | Mohammedia | Maroc | 2017-07-10 |
| 25187 | The effect of the choice of the photovoltaic cell on the combined photovoltaic-thermoelectric system | El Mliles M., Hajjaji A. | Conférence Internationale sur les Matériaux Fonctionnels et leurs Applications Technologiques | Casablanca | Maroc | 2017-10-13 |
| 25188 | Dimensioning a speed multiplier of a wind turbine | E. H. ACHOUYAB and B. BAHRAR | International Workshop on Advances in Energy Technologies, Environmental Engineering and Materials Science | Mohammedia | Maroc | 2017-07-10 |
| 25189 | Self-similarity in quasi-periodic serial stub | A. Mouadili, E. H. El Boudouti | International Workshop on Advances in Energy | Mohammedia | Maroc | 2017-07-10 |

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|-------|---|---|--|------------|-------|------------|
| | structure: Theory and experiment | | Technologies, Environmental Engineering and Materials Science | | | |
| 25190 | The improvement of the direct power control strategy using a constant switching frequency algorithm | Hicham Lhachimi, Yassine Sayouti, Youssef El Kouari | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25191 | Management of a Multi-Source Renewable Energy System Based on Fuzzy Logic | Basma A., Oukarfi B., El Kouari Y. | The 3rd International Conference on Optimization and Applications | Meknés | Maroc | 2017-04-27 |
| 25212 | MPPT METHOD FOR TRACKING THE MAXIMUM POWER POINT UNDER A VARIABLE LOAD | ABOUADANE Hafsa, FAKKAR Abderrahim | 2 ^{ème} édition de la conférence internationale "Matériaux Fonctionnels et leurs Applications Technologiques" CIMFAT 2017 | Casablanca | Maroc | 2017-10-13 |
| 25214 | New MPPT Algorithm applied to Phtovoltaic system | ABOUADANE Hafsa, FAKKAR Abderrahim, OUOBA David | The International conference on Advanced Materials for Photonics, Sensing and Energy Applications (AMPSECA' | Agarir | M | 2017-03-30 |

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|-------|---|---|--|------------|-------|------------|
| | | | 2017) | | | |
| 25217 | Modélisation des profils de vitesse d'un écoulement transitoire et laminaire en conduite à l'aide d'un développement polynômial | S. Hamdoun ¹ , H. Samri ¹ , M. Tamani ¹ , B. Bahrar ¹ | 2ème Congrès de Génie Civil, Mécanique & Environnement Casablanca, 10-11 Novembre 2016 | Casablanca | Maroc | 2016-11-10 |
| 25219 | An improved maximum power point tracking (MPPT) method for a photovoltaic (PV) system | Ouoba D., Fakkar A., Oukarfi B., El Kouari Y. | 13th international conference ICFPAM 2015 | Marrachech | maroc | 2015-03-29 |
| 25220 | Sizing of a photovoltaic water pumping system and improving with a fuzzy logic based maximum power point tracking in Mohammedia | David OUOBA, Abderrahim FAKKAR, Fayrouz DKHICHI, Amina ACHALHI, Benyounes OUKARFI Zakaria SABIRI | 3rd International, Renewable and Sustainable Energy Conference (IRSEC) | Marracech | Maroc | 2015-12-11 |
| 25229 | Performance of new MPPT Method for photovoltaic system under dynamic solar irradiation profiles | Hafsa Abouadane, Aberrahim Fakkar, Youssef El Kouari and David Ouoba | ICAE | Cardiff | U.K | 2017-08-23 |
| 25234 | MPPT Based Artificial Intelligence For Photovoltaic Systems | ABOUADANE Hafsa*, FAKKAR Abderahim, OUKARFI Benyounes, EL KOUARI Youssef | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL | Mohammedia | Maroc | 2017-07-10 |

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|-------|---|---|--|------------|-------|------------|
| | | | ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | | | |
| 25235 | Improved Method Of Levenberg-Marquardt Combined With Simulated Annealing For Parametric Identification Of Solar Cell Double Diode Model | Fayrouz Dkhichi, Benyounes Oukarfi, Abderrahim Fakkar, Youssef El Kouari, Hamza Ali Ou Salah | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25236 | Energetic And Exergetic Analysis And Performance Evaluation Of A Photovoltaic Thermoelectric Hybrid System | Mustapha El Mliles1*, Youssef El Kouari1, Abdelwahed Hajjaji2, Benyounes Oukarfi1, Abderrahim Fakkar1 | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25237 | Wave Energy Recovery From Electroactive Polymers | Zineb EZZERROUTI1*, Mohamed EL JOUAD2, Benyounes OUKARFI1, Youssef EL KOUARI1 | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25239 | Study Of New | Zouhair Sofiani1*, | INTERNATIONAL | Mohammedia | Maroc | 2017-07-10 |

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|-------|--|--|---|------------|-------|------------|
| | Synthesized Organic Molecules And Their Optical Properties | Meriem Lougdali ¹ , Abdelkader Mouadili ¹ , Youssef Elkouari ¹ , S.Khannyra ² , A. Zawadzka ³ | CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | | | |
| 25240 | A Rule-based energy management system for collaborative Nanogrids | Meryem HAMIDI, Benyounes OUKARFI, Youssef EL KOUARI | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25242 | Structure and optical properties of Znq2 Materials | MeriemLougdali* ¹ , Youssef Elkouari ¹ , Zouhair Sofiani ¹ , Mimoun Zazoui ¹ , A. Zawadzka ² , B. Sahraoui ³ | International Conference on Advanced Materials for Photonics, Sensing and Energy AppliCations | AGADIR | Maroc | 2017-03-28 |
| 25243 | A complete sliding mode control strategy applied to a DFIG with a reduced chattering effect under parameters variation for highpower wind energy | Hicham Lhachimi ¹ *, Youssef Elkouari ¹ , Yassine Sayouti ² , Benyounes Oukarfi | International Conference on Advanced Materials for Photonics, Sensing and Energy AppliCations | AGADIR | Maroc | 2017-03-28 |
| 25244 | A theoretical model for thermoelectric generator | Mustapha El Mliles* ¹ , Abdelowahed Hajjaji ² , | International Conference on Advanced Materials | AGADIR | Maroc | 2017-03-28 |

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|-------|--|---|---|--------|-------|------------|
| | design in a hybrid TE/PV system | Youssef EL KOUARI | for Photonics, Sensing and Energy Applications | | | |
| 25245 | Intelligent Energy Management System of an Islanded Microgrid | Meryem HAMIDI, Benyounes OUKARFI, Youssef EL KOUARI | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | AGADIR | Maroc | 2017-03-28 |
| 25246 | Comparative study of converters controlled by Auto-Scaling Variable Step-size based MPPT for a photovoltaic system in abrupt change of weather condition | David Ouoba*, Abderrahim Fakkar, Youssef El Kouari, Hafsa Abouadane | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | AGADIR | Maroc | 2017-03-28 |
| 25247 | Optimization of Photovoltaic System Power by a New Hyperbolic Tangent Approximation of the of Artificial Neural Network MPPT under Xilinx System Generator | Fayrouz Dkhichi, Benyounes Oukarfi, Youssef El Kouari, | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | AGADIR | Maroc | 2017-03-28 |
| 25248 | Influence of the temperature and hydrostatic pressure on efficiency and J-V characteristics of InN/GaN quantum dots intermediate band solar | A. Amine ¹ , Y. Mir ¹ , K. Zazi, A. Oukerroum ¹ , Y. ElKouari ¹ , E. Feddi ² , M. Addou ³ and M. Zazoui ^{*1} | International Conference on Advanced Materials for Photonics, Sensing and Energy Applications | AGADIR | Maroc | 2017-03-28 |

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|-------|--|--|---|------------|---------|------------|
| | cell | | | | | |
| 25251 | Doubly Fed Induction Generator based Wind power generation system with grid integration for model validation | D. OUOBA, H. ABOUADANE, Z. SABIRI, Y. EL KOUARI, A. FAKKAR | Conférence Internationale Matériaux Fonctionnels et leurs Applications Technologiques | Casablanca | Maroc | 2017-10-13 |
| 25256 | The effects of temperature and size on the quantum dots p-i-n solar cell's performance | Amine A., Kinani M. A., Oukerroum A., Mir Y., Zazoui M. | Colloque francophone COMbustion et POLLution Atmosphérique | Saidia | Maroc | 2016-04-12 |
| 25259 | Performance during load variations of a photovoltaic system with an auto-scaling step-size based MPPT device | Ouoba D., Fakkar A., Oukarfi B., Belbounaguia N., Elkamouny K. | Development and Manufacturing of Electronic Systems | Rabat | Maroc | 2015-04-01 |
| 25260 | MPPT method for tracking the maximum power point under a variable load | Abouadane H., Fakkar A. | Conference internationale sur les matériaux fonctionnels et leurs applications technologiques | Casablanca | Maroc | 2017-10-13 |
| 25263 | Direct power control of a Dfig fed by a two level inverter using Svm algorithm | Lhachimi H., Sayouti Y., El Kouari Y. | Modern Electrical and Energy Systems | Kremenchuk | Ukraine | 2017-11-15 |
| 25272 | The enhancement control of a DFIG behavior based wind energy conversion | Lhachimi H., Sayouti Y., El Kouari Y. | International Congrees on Advanced Technologies | Safi | Maroc | 2017-04-12 |

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|-------|---|---|--|------------|-----------|------------|
| | system using the fuzzy logic | | | | | |
| 25308 | The direct power control improvement of a DFIG using a constant switching frequency algorithm | Lhachimi H., Sayouti Y., El Kouari Y., Oukarfi B. | INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY TECHNOLOGIES, ENVIRONMENTAL ENGINEERING AND MATERIALS SCIENCES (AETEEMS 2017) | Mohammedia | Maroc | 2017-07-10 |
| 25311 | Ab-ination study of structural and electronic properties of tin dioxide (SnO ₂) | Bziz I., Atmani E. H. | The Moroccan Society of Physics of Advanced Materials and Applications | Agadir | Maroc | 2017-03-28 |
| 25312 | Theoretical diagnostics of first and second hyperpolarizabilities of several acid derivatives | Karakas A., Ceylan Y., Karakaya M., Taser M., Terlemez B. B., Eren N., El Kouari Y., Lougdali M., Arof A. K., Sahraoui B. | 4th International conference on computational and experimental science and engineering | Antalya | Turkey | 2017-10-04 |
| 25314 | One phonon absorption characterizations, dipole polarizabilities and second hyperpolarizabilities of chlorophyll a and crocin | Karakas A., Ceylan Y., Karakaya M., Taser M., Terlemez B. B., Eren N., El Kouari Y., Lougdali M., Arof A. K., Sahraoui B. | 4th International conference on computational and experimental science and engineering | Antalya | Turkey | 2017-10-04 |
| 26595 | Fabrication of SiGe nanocrystal via dewetting process for | Mohammed Bouabdellaoui ^{1,2} , Simona | ISN2A2018 | caparica | portugale | 2018-01-22 |

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|-------|---|---|--|------------|---------|------------|
| | high-efficiency, anti-reflection coatings at near-infrared frequencies | Checucci1,3,4,5, Thomas Wood1, Meher Naffouti1,6, Kailang Liu1, Carmen Ruiz-Herrero1, David Duche1, Judikael Le Rouzo1, Ludovic Escoubas1, Nicolas Bonod7, Mimoun Zazoui2, Luc Favre1, Leo Metayer1, Antoine Ronda1, Isabelle Berbezier1, David Grosso1, Massimo Gurioli3,5 and Marco Abbarchi1 | | | | |
| 26786 | Prediction of hourly global solar radiation using artificial neural network and k-means clustering in the city of Évora, Portugal | ALI-OU-SALAH Hamza., OUKARFI Benyounes. | The 1st INTERNATIONAL MEETING on ALTERNATIVE & GREEN ENERGIES (IMAGE'18) | Mohammedia | Maroc | 2018-05-08 |
| 26788 | Forecasting of hourly global solar radiation using artificial neural networks and cluster analysis algorithm in the city of Évora, Portugal | ALI-OU-SALAH Hamza., OUKARFI Benyounes. | The 2nd International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science (AETEEMS2018) | El Jadida | Morocco | 2018-12-13 |
| 26851 | Energy management of a | OUKACH Basma., | The 1st INTERNATIONAL | Mohammedia | Maroc | 2018-05-08 |

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|-------|---|--|--|------------|---------|------------|
| | multi-source renewable energy system based on multi agent system(MAS | OUKARFI Benyounes. | MEETING on ALTERNATIVE & GREEN ENERGIES (IMAGE'18) | | | |
| 26852 | The implementation of the multi agent system for the management of a multi source renewable energy system | AOUKACH Basma., OUKARFI Benyounes. | The 2nd International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science (AETEEMS2018) | El Jadida | Morocco | 2018-12-13 |
| 26929 | numerical study on the performance of quantum dot intermediate band solar cells | ben afkir nouredin, Elmustapha Feddi, Mimoun zazoui, Jaafar meziane | the 1st international meeting on alternative & green energies 'IMAGE'18' | mohammedia | maroc | 2018-05-08 |
| 27036 | Characteristics and Parameters Extracting of Sub cells in Dual-Junction solar cells via Capacitance-Voltage Measurement | K.A.Kinani, A. Amine, Y. Mir, M. Zazoui and E. Feddi | The IEEE International Conference on : Renewable Energies, Power Systems & Green Inclusive Economy (REPS-GIE) | casablanca | Maroc | 2018-04-23 |
| 27040 | Synthesis of Molecular glasses as Hole transporting material (HTMs) for dye solar cells (sDSSCs) | Hind Lamkaouane, Yamina Mir, Anna Zawadzka ,Mimoun Zazoui, Youssef El Kouari | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Sciences | El Jadida | Morocco | 2018-12-13 |
| 27239 | Physical Properties of Metalorganic Thin Films | M. Lougdali ^{1,2} , P. Półciennik ^{2*} , Y. El | ICTON 2018 | bucharest | romania | 2018-07-01 |

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| | | Kouari ¹ , A. Korcala ² , and B. Sahraoui ³ | | | | |
| 27240 | structural and optical properties of manganese (II)bis(8-hydroxyquinoline) thin films | Meriem lougdali, yousef elkouari, Mimoune zazoui, A. zawadzka, P. plociennik, Y. abboud, A. ELbouari, B. Sahraoui | AETEEMS 2018 | Eljadida | Morocco | 2018-12-13 |
| 27242 | Analysis of wind data and wind energy potential of the east of mohammedia morocco | Mohamed elyazidi, mohammed benzirar, abdelbari redouane, mimoun zazoui | 6th International Renewable and Sustainable Energy Conference | rabat | maroc | 2018-12-05 |
| 27374 | The combined effects of quantum dots size and temperature on efficiency of InAs/GaAs quantum dots intermediate band solar cell | A. Amine, M. A. Kinani, Y.Mir, A. Oukerroum, A. Chahid, A. Wakif, Z. Boulahia, M. Hamid and M. Zazoui, | 1st International Conference of Computer Science and Renewable Energies ICCSRE'2018 | Ouarzazate | Morocco | 2018-11-22 |
| 27778 | Prediction and evaluation of perovskite compounds quality by artificial neural networks using electrical response experimental data | A. Tarbi, E. H. Atmani, M. A. Sellam | 1st International Meeting on Alternative é Green Energies | Mohammedia | Morocco | 2018-05-08 |
| 27926 | Modeling and simulation of solar photovoltaic pannel | F. Kabil, M. Assou, B. Oukarfi | International Conference on Advances in Energy Technologies, Environmental | El Jadida | Morocco | 2018-12-13 |

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| | | | Engineering and Materials Sciences" (AETEEMS) | | | |
| 27929 | Hierarchical control of parallel three phase voltage source inverters in AC microgrids | H. Lhachimi, Y. Sayouti, Y. El Kouari | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Sciences" (AETEEMS) | El Jadida | Morocco | 2018-12-13 |
| 27931 | DFT Study of Physical Properties of Al doped ZnS nano-sheet | A. Es Smairi, N. Fazouan, E. H. Atmani | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Sciences | El Jadida | Morocco | 2018-12-13 |
| 27937 | The effects of the phonon bottleneck on the performance of hot carrier solar cells | M. El Mliles, Y. El Kouari, A. Hajjaji | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Sciences" (AETEEMS) | El Jadida | Morocco | 2018-12-13 |
| 28871 | Estimation of the maximum power point during a simultaneous variation of load and solar irradiation | Abouadane hafsa, abderahim fakkar, yousef elkouari, benyounes oukarfi | IRSEC 18 | rabat | maroc | 2018-12-05 |

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| 28879 | numerical study of spherical quantum dot intermediate band solar cells | ben afkir nouredine, elhoussine atmani, Jaafar meziane, Kria mohamed | AETEEMS 2018 | Eljadida | Maroc | 2018-12-13 |
| 28880 | Optical properties of nanoparticles semiconductors: Mie-scattering calculation | Mohamed kria, Jaafar Meziane, Elhoussine atmani, Nouredine ben afkir | AETEEMS 2018 | Eljadida | maroc | 2018-12-13 |
| 29270 | ZnS Monolayer for Solar Cell Application | Adil ES-SMAIRI, Nejma FAZOUAN, El Houssine ATMANI | 1st International Meeting on Alternative & Green Energies | Mohammedia | Morocco | 2018-05-08 |
| 29271 | DFT Study of Structural and Electronic Properties of Highly Mismatched Zn _{1-x} Cu _x S Monolayer Alloys | Adil ES-SMAIRI, Nejma FAZOUAN, El Houssine ATMANI | 1st International Meeting on Alternative & Green Energies | Mohammedia | Morocco | 2018-05-08 |
| 29273 | DFT Study of Structural, Electronic and Optical Properties of ZnS Phases | Adil ES-SMAIRI, Nejma FAZOUAN, Ibrahim BZIZ, El Houssine ATMANI | 6th International Renewable and Sustainable Energy Conference | Rabat | Morocco | 2018-12-05 |
| 29379 | Modelisation sous Matlab/Simulink d'une turbine eolienne reliee a une generatrice asynchrone a double alimentation (GADA) | B. benyachou, F. Ait ouhrouch, K. Gueraoui, B. Bahrar | 13eme congrés de Mécanique | Meknes | maroc | 2017-04-11 |
| 29384 | A method of command | B. benyachou, B. Bahrar, | AETEEMS 2018 | Eljadida | maroc | 2018-12-13 |

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| | that allows extracting the maximum of power during the operation of the wind system | K. Gueraoui, Ait ouharouch fatima-ezzahra | | | | |
| 29451 | Etudes des proprietes optiques des heterostructures en regard des cuprates | A. El Azrak, E. H. Atmani, M. Zazoui, J. Meziane, A. MIR, M. Benzirar | JOTIM2016 | Errachidia | Maroc | 2016-05-04 |

*Communications nationales

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| 893 | Determination of the solar cell's electrical parameters by the neuralnetwork: Comparative study of the algorithm of Quasi-Newton, Gauss Newton, Levenberg Marquardt, steepest descent and conjugate gradient | Dkhichi F., Oukarfi B. | 1er Workshop en Imagerie, Systèmes et Applications (WOISA'13) | Taza | 2013-05-23 |
| 896 | Determination of the Solar Cell's Electrical Parameters by the Neural Network Using the Steepest Descent Algorithm | Dkhichi F., Oukarfi B. | 8èmes Journées d'Optique et du Traitement de l'Information (JOTIM'13) | Meknès | 2013-04-09 |
| 898 | Learning of the Neural Network by the Steepest | Dkhichi F., Oukarfi B. | 8èmes Journées d'Optique et du Traitement de l'Information | Meknès | 2013-04-09 |

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| | Descent and the Conjugate Gradient Algorithms for Determination of the Solar Cell's Electrical Parameters | | (JOTIM'13) | | |
| 900 | Comparative study of the algorithm's performances of Levenberg Marquardt, Gauss Newton, Quasi-Newton, steepest descent and conjugate gradient: Application on the solar cell by the neural network | Dkhichi F., Oukarfi B. | 8èmes Journées d'Optique et du Traitement de l'Information (JOTIM'13) | Meknès | 2013-04-09 |
| 902 | The impact of number of neurons in the hidden layer on the Performances of the neural network | Dkhichi F., Oukarfi B. | 8èmes Journées d'Optique et du Traitement de l'Information (JOTIM'13) | Meknès | 2013-04-09 |
| 929 | Gradual band energy to passivate the window layer in solar cells | AMINE, M. BOUABDELLAOUI, Y. MIR, E. FEDDI, M. ADDOU, M. ZAZOUI | . International Conference on MATERIALS & ENERGY | Tetouan | 2015-05-19 |
| 930 | Analysis of multi junction solar cells at different temperatures by considering a model including tunnel junction effect | Y. MIR, M. BOUABDELLAOUI, A. AMINE, E. FEDDI, M. ADDOU, M. ZAZOUI | 13th INTERNATIONAL CONFERENCE on FRONTIERS of POLYMERS & ADVANCED MATERIALS | Marrakech | 2015-03-29 |
| 932 | , Étude d'impact de l'utilisation de la donnée colonne totale d'Ozone dans la modélisation numérique de la dynamique d'altitude lors d'une situation | Siham Sbi, Mimoun Zazoui, and Noureddine Semane | 12ème Congrès De Mécanique | Casablanca | 2015-04-24 |

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| | d'instabilité atmosphérique | | | | |
| 936 | Numerical simulation of the gradual window layers effect on Sensitivity GaAs solar cell to 1 MeV electron irradiation | A. Amine, Y. Mir and M. Zazoui, | 12th International Conference on Condensed Matter and Statistical Physics (ICCMSP) | Errachidia-Morocco | 2013-10-30 |
| 938 | Analysis of multi-junction solar cells via the capacitance-voltage characteristics | Amine, Y. Mir and M. Zazoui | 12th International Conference on Condensed Matter and Statistical Physics (ICCMSP) | Errachidia-Morocco | 2013-10-30 |
| 939 | Modelling of the courant-voltage characteristics of solar cells of high concentration of generation-recombination centres and different concentrations of deep traps | Y. Mir, A. Amine, M. Bouabdellaoui, J. Meziane, M. Assou and M. Zazoui | 12th International Conference on Condensed Matter and Statistical Physics (ICCMSP) | Errachidia-Morocco | 2013-10-30 |
| 940 | Analysis of multi-junction solar cells via the capacitance-voltage characteristics | Amine, Y.Mir , A. Oukerroum and M. Zazoui | , International Congress on Materials & Structural Stability Congrès International Matériaux & Stabilité Structurelle | RABAT | 2013-11-27 |
| 941 | Les bases de l'énergie solaire photovoltaïque : état de l'art, aspects technologiques et applications | Zazoui | Salon International de l'énergie solaire Sous le thème : Energie Solaire au Maroc, Enjeux & Perspectives | Marrakech | 2013-02-13 |
| 942 | Caractérisation et détection d'onsets des notes musicales d'un luth arabe | A. Rebbani ; L. Bahatti ; M. Zazoui et O. Bouattane | 3ème édition des Journées Doctorales en Technologies de l'Information et de la | TANGER | 2012-07-07 |

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| | | | Communication | | |
| 944 | Transcription of a musical signal comes from an Arabic lute, by characterizing the notes and detection of onsets | A. Rebbani ; L. Bahatti ; M. Zazoui et O. Bouattane | International Syposium on Securiy and Safety of complex Systems: SCS12: ENSA | AGADIR | 2012-05-24 |
| 945 | Dimensionnement d'une installation photovoltaïque autonome | M. Zazoui | profil des enseignants chercheurs | RABAT | 2012-04-23 |
| 949 | Transcription of a musical signal comes from an Arabic lute, by characterizing the notes and the detection of onsets | Ahmed Rebbani, Lhoucine Bahatti, Omar Bouattane et Mimoun Zazoui | Internatinal Symposium on Security and Safety of complex system | AGADIR | 2012-05-26 |
| 953 | The window layers effect on the hardness improvement of space solar cells exposed to the 1 MeV electron irradiations | Y. Mir, A. Amine, K. Zazi and M. Zazoui | International Conference on Advanced Materials for Photonics, Sensing and Energy Conversion Applications (AMPSECA'2012) | EL JADIDA | 2012-12-05 |
| 954 | Modelling of High efficiency CIGS/CIS solar cells | M. Khalis, Y. Mir, ZaZi and M. Zazoui | La 7ème Rencontre Nationale Des Jeunes Chercheurs en Physique (RNCJP), Faculté des Sciences Ben M'sik, | Casablanca | 2012-12-20 |
| 955 | Effet de la résistance tunnel sur les performances d'une cellule solaire multijonction à partir des caractéristiques J-V | A. Amine, Y. Mir, K. Zazi and M. Zazoui | La 7ème Rencontre Nationale Des Jeunes Chercheurs en Physique (RNCJP), Faculté des Sciences Ben M'sik | Casablanca | 2012-12-20 |

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|------|---|---|---|------------|------------|
| 956 | Apport dynamique des données de l'ozone autour de la tropopause | S. SBII, N. SEMANE , M.ZAZOUI | La 7ème Rencontre Nationale Des Jeunes Chercheurs en Physique (RNCJP) | Casablanca | 2012-12-20 |
| 957 | Extraction des attributs sinusoïdaux d'un signal audio par l'utilisation de la constant Q transform | Lhoucine Bahatti, Omar Bouattane et Mimoun Zazoui | , La 7ème Rencontre Nationale Des Jeunes Chercheurs en Physique (RNCJP) | Casablanca | 2012-12-20 |
| 958 | Comparison of theoretical efficiencies for two tandem GaInP/GaAs and GaInP/Si solar cells | M. Khalis, Y. Mir, M. Zazoui, A. Nafidi | 11th International Conference on Condensed Matter and Statistical Physics (CIPMCPS) | AGADIR | 2012-10-19 |
| 959 | Anhancement of Tc, the unit cell volume and A.C. magnetic shielding in high Tc superconductors (Y1-xCax)(Sr Ba)(Cu2.7Co0.3)O6+z | R. Morghi, A. Nafidi, H. Chaib, A Tirbiyine, A. Idbaha, H. Sahsah, Y. Benlaabidya, M. Zazoui, A. Khalal, A. Taoufik, M. Massa, M. Srinivasa Vinod | 11th International Conference on Condensed Matter and Statistical Physics (CIPMCPS) | AGADIR | 2012-10-19 |
| 1541 | Analyse comparative de quelques modèles de calcul en fatigue en vue de prédire numériquement l'influence des défauts de soudage sur la résistance des structures en tenant compte des contraintes résiduelles | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI | Congrès De Mécanique organisé par la Société Marocaine des Sciences Mécaniques. | casablanca | 2015-04-21 |
| 1544 | Etude du comportement des aérogénérateurs utilisant des génératrices asynchrones à | A. MOUAHID, A. KHAMLICH, A.YEZNASNI | 1 er Colloque franco-marocain sur les énergies nouvelles et renouvelables | Rabat, | 2014-10-28 |

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| | rotors bobinés à double alimentation pendant des creux de tension | | | | |
| 1545 | Etude du comportement des aérogénérateurs utilisant des génératrices asynchrones à rotors bobinés à double alimentation pendant des creux de tension | A. MOUAHID, A. KHAMLICH, A.YEZNASNI | 1 er Colloque franco-marocain sur les énergies nouvelles et renouvelables | Rabat, | 2014-10-28 |
| 1548 | Utilisation d'une approche numérique pour la prédiction de l'influence des défauts de soudage sur un assemblage sollicité en fatigue " | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI | 1 ère conférence sur mécaniques des matériaux et structures | Marrakech | 2014-11-19 |
| 1550 | Prédiction de la durée de vie en fatigue des joints soudés présentant des défauts en prenant en considération les contraintes résiduelles " | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI | 1 ère conférence sur mécaniques des matériaux et structures | Marrakech | 2014-11-19 |
| 1553 | Prédiction de l'influence de défaut de Soudage sur une structure par utilisation de la méthode volumétrique et du calcul numérique | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI | VIIIèmes Journées d'Etudes Techniques - JET'2014 The International congress for applied mechanics | Marrakech | 2014-04-28 |
| 1555 | Etude de l'influence des contraintes résiduelles sur la résistance en fatigue des cordons de soudure en | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI | VIIIèmes Journées d'Etudes Techniques - JET'2014 The International congress for applied mechanics | Marrakech | 2014-04-28 |

| ID | Intitulé | Auteurs | Conférence | Ville | Date |
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| | présence de défaut surfacique | | | | |
| 1557 | Vers un plan d'expérimentation pour la prédiction de l'influence des défauts de soudage sur un assemblage sollicité en fatigue en tenant compte des contraintes résiduelles | H KHATIB, K MANSOURI, B SALHI, A. YEZNASNI | 1 ère conférence sur mécaniques des matériaux et structures | Marrakech | 2014-11-19 |
| 1559 | Calculation of the temperature fluctuation in heated turbulent jet plane using optical method | Borji sara, Mohammed Benzirar | 1ere Edition de la journée doctorale en physique | Tetouan | 2014-05-10 |
| 1567 | Impact of ambient conditions on system efficiency of concentrated solar plants | Latifa Sabri , Mohammed Benzirar | Workshop Materiaux et Energétique | casablanca | 2015-05-21 |
| 1569 | Influence of ambient conditions on thermal properties of photovoltaic cells | Latifa Sabri , Mohammed Benzirar | Mediterranean Green Energy Forum | Marrakech | 2015-03-26 |
| 1629 | Porous titania films fabricated via sol gel rout - Optical and AFM characterization | Youssef EL Kouari · Pawe. Karasiński · Sabina Drewniak · Ewa Gondek · Anita Kajzer · Natalia Waczyńska-Niemiec · Bouchta Sahraoui | 13th ICFPAM 2015 | Marrakech | 2015-03-29 |
| 1630 | Ab-initio and DFT methodologies for computing hyperpolarizabilities and susceptibilities of highly | Karakas A · Karakaya M · Ceylan Y · Kouari Y. El · Boughaleb Y · Sofiani Z · Sahraoui B | 13th ICFPAM 2015 | Marrakech | 2015-03-29 |

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| | conjugated organic compounds for nonlinear optical applications | | | | |
| 1633 | Neural network based integration of MPPT and diagnosis of Degradation for photovoltaic module | Fayrouz Dkhichi · Benyounes Oukarfi · El Kouari Y | 13th ICFPAM 2015 | Marrakech | 2015-03-29 |
| 1634 | An improved maximum power point tracking (MPPT) method for a Photovoltaic (PV) system | David Ouoba · Abderrahim Fakkar · Benyounes Oukarfi · El Kouari Y. | 13th ICFPAM 2015 | mohammedia | 2015-03-29 |
| 1635 | Structural and Optical Properties of ZnO Thin Film fabricated by Laser Ablation Technique | Y. El Kouari · A. Zawadzka · P. Plociennik · J. Strzelecki · B. Sahraoui | 13th ICFPAM 2015 | Marrakech | 2015-03-29 |
| 1637 | ELABORATION D'UN SYSTEME D'OPTIMISATION DE PUISSANCE D'UNE STRUCTURE PHOTOVOLTAÏQUE | M. ZEGRARI · A. BADRI · B. OUKARFI · Y. EL KOUARI | CONGRES MEDITERRANEEN DES TELECOMMUNICATIONS | mohammedia | 2014-05-22 |
| 1638 | IDENTIFICATION OF PHOTOVOLTAIC CELL MODEL BY NEURAL NETWORK | F. DKHICHI · B. OUKARFI · A. FAKKAR · Y. EL KOUARI | CONGRES MEDITERRANEEN DES TELECOMMUNICATIONS | mohammedia | 2014-05-22 |
| 1640 | DEVELOPPEMENT ET MISE AU POINT DE TECHNIQUES FRACTALES POUR LA COMPRESSION NUMERIQUE D'IMAGES COULEURS | Z. DYA · A. SAHEL · A. BADRI · A. BAGHDAD · Y. EL KOUARI | CONGRES MEDITERRANEEN DES TELECOMMUNICATIONS | mohammedia | 2014-05-22 |
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| 1641 | Développement de la commande prédictive par modélisation non linéaire. | M. ZEGRARI · A. BADRI · B. OUKARFI · Y. EL KOUARI | CONGRES MEDITERRANEEN DES TELECOMMUNICATIONS | Fès | 2012-03-22 |
| 7912 | Etude par calcul ab initio des propriétés structurales et des nanostructures semi-conductrices à base de ZnSe | - A. Rachidi, E. H. Atmani, J.Hemine, A. El Azrak, E. Asloun, A.Messaoudi | 8ème Rencontre Nationale des Jeunes Chercheurs en Physique, RNJCP-8 | Casablanca | 2015-12-21 |
| 15414 | Effect of gaussian profile doping on the performance of p/n GaAs solar cell | E. Chahid, A. Amine, M. Bouabdellaoui, Y.Mire, K. Zazi, M.Zazoui | 5eme Edition du Colloque environnement et développement durable | RABAT | 2016-05-10 |
| 15415 | Extracting the Parameters of Each Subcell in Multijunction solar cells via Capacitance-Voltage Measurements | A.Amine, M. A. Kinani, Y. Mir and M.Zazoui | the 4thInternational Renewable and Sustainable Energy Conference | Marrakech | 2016-11-14 |
| 15418 | influence of the temperature and hydrostatic pressure on efficiency and J-V characteristics of InN/GaN quantum dots intermediate band solar cell | A. Amine, A. Oukerroum, Y. Mir, E. Feddi and M. Zazoui | «. Le 10eme Congrès Francophone de Génie des Procédés CFGP | safi | 2016-04-27 |
| 15428 | Determination of impact of ambient conditions on optical efficiency of concentrated solar plants using MATLAB | Latifa SABRI, Mohammed BENZIRAR, Mimoun ZAZOUI | Conférence internationale JSSA'16 Journées scientifiques en science appliquées Larache | Larache | 2016-03-25 |
| 15432 | estimation of hourly global solar radiation for ouarzazate | Latifa SABRI , Mohammed BENZIRAR , Mimoun ZAZOUI | 1st International Conference on Materials and Environmental Science | Oujda | 2016-12-01 |

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| 16557 | Influence of ambient factors on optical efficiency of parabolic trough | L. Sabri, M. Benzirar & M. Zazoui | 2ème édition des journées scientifiques | Agadir | 2016-05-06 |
| 16852 | Power line communication for smart DC micro grid: Overview, standards and protocols | MGAIZAR Mohamed, OUKARFI Benyounes | 3ème édition des journées doctorales | Mohammedia | 2016-12-20 |
| 16859 | Mise en oeuvre des méthodes d'intelligence artificielle pour la gestion d'un système à énergie multi sources | AOUKACH Basma, OUKARFI Benyounes | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées 2016 | Mohammedia | 2016-12-22 |
| 16861 | Gestion solidaire des énergies renouvelables à base d'intelligence artificielle | HAMIDI Meryem, OUKARFI Benyounes | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées 2016 | Mohammedia | 2016-12-22 |
| 16862 | Solidarity management of renewable energy based on artificial intelligence | HAMIDI Meryem, OUKARFI Benyounes | Vers des systèmes d'information évolutifs: objets connectés, big data & data mining | Mohammedia | 2016-12-29 |
| 16866 | Etude des outils à base d'intelligence artificielle pour la prévision de la puissance fournie par les panneaux photovoltaïques en fonction des paramètres météorologiques | ALIOUSALAH Hamza, OUKARFI Benyounes | Vers des systèmes d'information évolutifs: objets connectés, big data & data mining | Mohammedia | 2016-12-29 |

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| 17130 | Control Strategy Of DFIG For Wind Energy System In The Grid Connected Mode | Hicham Lhachimi, Youssef El Kouari, Yassine Sayouti | conférence internationale de l'énergie renouvelable et durable | Marrakech | 2016-11-14 |
| 17269 | Approche bibliographique du sujet de thèse : étude et commande intelligente d'un micro réseau autonome à base des énergies renouvelables | ABOUADANE Hafsa, FAKKAR Abderrahim | Journée Energie, Climat & Développement Durable | mohammedia | 2016-02-23 |
| 17270 | Etude comparative entre commandes MPPT floue et MPPT P&O appliquées à un système photovoltaïque | ABOUADANE Hafsa, FAKKAR Abderrahim | 5ème édition des Doctoriales FSR 2016 | rabat | 2016-03-09 |
| 17271 | Performances de la commande MPPT sous différentes conditions climatiques, appliquée sur un système photovoltaïque | ABOUADANE Hafsa, FAKKAR Abderrahim, OUOBA David | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | mohammedia | 2016-12-22 |
| 17272 | Contribution à la commande d'un aérogénérateur asynchrone à double alimentation connecté au réseau | 4. EL JANATI Oumaima, FAKKAR Abderrahim, EL FADILI Abderrahim | Université de Printemps sur l'Efficacité Energétique (UP2E) | Beni Mellal | 2016-04-11 |
| 17273 | Recherche bibliographique sur le sujet de thèse : Contribution à la commande d'un aérogénérateur asynchrone et l'intégration au réseau | 5. EL JANATI Oumaima, FAKKAR Abderrahim, EL FADILI Abderrahim | journée d'études sur le thème : Energie, Climat & Développement Durable : RÉALITÉS ET PERSPECTIVES D'AVENIR | mohammedia | 2016-02-23 |

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| | électrique | | | | |
| 17274 | Behavior of Neural Network MPPT Technique on a PV System Operating under Variable Load and Irradiation | Fayrouz Dkhichi, Benyounes Oukarfi, David Ouoba, Abderrahim Fakkar, Amina Achalhi | 2nd International Conference on Electrical and Information Technologies ICEIT 2016 | Tanger | 2016-05-04 |
| 17513 | Boltzmann equations and ab initio calculations : theoretical study on the optical, electrical and transport properties of cubic Rocksalt (B1) ZnSe | A. RACHIDI, E. ATMANI, N. FAZOUAN | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2016-12-22 |
| 17514 | Study of structural and electronic properties of TiO ₂ using GGA and mBJ approximations | M. AAZI, I. BZIZ, E. ATMANI, N. FAZOUAN, A. ES-ESMIRI | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2016-12-22 |
| 17515 | Etude par DFT des propriétés structurales et électroniques de dioxyde d'étain SnO ₂ | I. BZIZ, M. AAZI, E. ATMANI, N. FAZOUAN, A. ES-ESMIRI | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2016-12-22 |
| 17516 | DFT study of structural, electronic, optical and electrical properties of CuO | ES-SMAIRI, N. FAZOUAN, E. ATMANI, M. KHUILI, B. BZIZI, M. AAZI | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2016-12-22 |
| 17517 | DFT study of undoped and (Mg,Cd,Sr) doped ZnO: stability, structural and electronic properties | M. KHUILI, N. FAZOUAN, H. ABOU EL MAKARIM, A. ES-SMAIRI, E. ATMANI | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2016-12-22 |
| | | | | | |

| ID | Intitulé | Auteurs | Conférence | Ville | Date |
|-------|---|--|--|-------------|------------|
| 17555 | Etude comparative des convertisseurs commandés par MPPT à pas variable auto-réglé pour un système photovoltaïque | David OUOBA, Abderrahim FAKKAR, Hafsa ABOUADANE | Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | mohammedia | 2016-12-22 |
| 18157 | Study of structural, electronic and optical properties of ZnO using Modified Beck Jhonson | Mohammed Khuili, Nejma Fazouan, Hassna Abou El Makarim | Journées Doctoriales | Béni Mellal | 2015-03-26 |
| 20364 | ANALYSE ET TRAITEMENT DES EFFLUENTS DE L'INDUSTRIE DE TANNERIE | M. Assou, B. Lachgar, S. Souabi et A. Madinzi | 1ère Edition des Journées Pratiques Francophones des Sciences Analytiques | Marrkech | 2017-04-27 |
| 20402 | MODELISATION DE LA CONVERSION DE L'ENERGIE | FAKHREDDINE Chahrazad, ATMANI El Houssine, ASSOU Mohamed | 2ème Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2017-12-21 |
| 21208 | simulation numérique de coefficient de diffusion local dans un jet turbulent chauffe | S. Borji, M. Benzirar | La 2eme journée scientifique sur les méthodes de modilisation en sciences physiques et mathématiques appliquées, | Mohammedia | 2017-12-21 |
| 21209 | Contrôle et diagnostic des composes à base de perovskite par la technique de spectroscopie d'impédence complexe en utilisant la méthode des réseaux de neurones artificiels | Amal Tarbi E. H. Atmani M. A. Sellam | La 2eme journée scientifique sur les méthodes de modilisation en sciences physiques et mathématiques appliquées | Mohammedia | 2017-12-21 |
| | | | | | |

| ID | Intitulé | Auteurs | Conférence | Ville | Date |
|-------|--|---|--|------------|------------|
| 21215 | Détermination d'une méthode de modélisation du potentiel éolien | El Yazidi Mohamed, Benzizar Mohammed, Yeznasni Abderrahmane | La 2eme journnée scientifique sur les méthodes de modilisation en sciences physiques et mathématiques appliquées | Mohammedia | 2017-12-21 |
| 25125 | Influence of the temperature and hydrostatic pressure on InN/GaN quantum dots intermediate band solar cells | Amine A., Kinani M. A., Mir Y., Zazoui M. | La 2éme Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2017-12-21 |
| 25126 | Analytical modeling of Gaussian profile effects in GaAs p-i- n solar cells | Chahid E., Mir Y., Amine A., Zazoui M. | La 2éme Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2017-12-21 |
| 25128 | Détermination de l'isolation thermique optimale des murs extérieurs des constructions durant les périodes de chauffage et de refroidissement et pour les différentes zones climatiques | Karma M., Mir Y., El Azrak A., Zazoui M. | La 2éme Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2017-12-21 |
| 25129 | Contribution à l'étude des phénomènes de transport dans les cellules solaires à base de pérovskite | Kinani A., Amine A., Mir Y., Belahmer Z., Messaoudi A., Zazoui M. | La 2éme Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2017-12-21 |
| 25131 | Mise en oeuvre des méthodes | Aoukach Basma, OUKARFI | Journée Scientifique sur les | Mohammedia | 2016-12-22 |

| ID | Intitulé | Auteurs | Conférence | Ville | Date |
|-------|---|--|--|------------|------------|
| | d'intelligence artificielle pour la gestion d'un système à énergie renouvelable multi-source | Benyounes | méthodes de modélisation en sciences physiques et mathématiques appliquées | | |
| 25145 | Modélisation de la caractéristique courant-tension des cellules photovoltaïques de grande concentration des centres de génération-recombinaison et de différente concentration de pièges profonds | Bouabdellaoui M., Zazoui M. | La Première édition de la Journée Doctorale | Mohammedia | 2015-06-16 |
| 25153 | Calculation of the temperature fluctuations in a heated turbulent jet plane in particular case | Borji S., Benzirar M. | La Première édition de la Journée Doctorale | Mohammedia | 2015-06-16 |
| 25218 | Performances de la commande MPPT sous différentes conditions climatiques, appliqué sur un système photovoltaïque | ABOUADANE Hafsa, FAKKAR Abderrahim | journées Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2016-12-22 |
| 27319 | light scattering by spherical nanoparticles | M. kria, J. meziane , E.H. atmani, N. benafkir | 3eme edition de la journée scientifique sur les méthodes de modelisation en sciences physiques et mathematiques appliquées | mohammedia | 2018-12-27 |
| 27320 | numerical study on the performance of InAs/GaAs | M. Kria, N. benafkir, J. Meziane, M. zazoui | 3eme edition de la journée scientifique sur les méthodes | mohammedia | 2018-12-27 |

| ID | Intitulé | Auteurs | Conférence | Ville | Date |
|-------|--|---|--|------------|------------|
| | quantum dot intermediate band solar cells | | de modelisation en sciences physiques et mathematiques appliquées | | |
| 29274 | DFT Study of structural and electronic Properties of Highly Mismatched Zn _{1-x} Cu _x S Nano-Sheet Alloys | Adil ES-SMAIRI, Nejma FAZOUAN, El Houssine ATMANI | 3ème édition de la Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2018-12-27 |
| 29275 | DFT study of ZnS nano-sheet for application in solar cells | Adil ES-SMAIRI, Nejma FAZOUAN, El Houssine ATMANI | 3ème édition de la Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2018-12-27 |
| 29276 | Wurtzite ZnS monolayer and bilayer for photovoltaic application | Adil ES-SMAIRI, Nejma FAZOUAN, El Houssine ATMANI | 3ème édition de la Journée Scientifique sur les Méthodes de Modélisation en Sciences Physiques et Mathématiques Appliquées | Mohammedia | 2018-12-27 |

*Ouvrages

| ID | Intitulé | Auteurs | Editeur | Date |
|------|--|--|---------------------------|------|
| 1732 | Low temperature electrical transport properties in dilute 2D GaAs hole systems with magnetic field | S. Dlimi, A. El kaaouachi, R. Abdia, A. Narjis, G. Biskupski, J. Hemine, L. Limouny, A. Sybous | CEC/ICMC, AIP Conf. Proc. | 2012 |

| ID | Intitulé | Auteurs | Editeur | Date |
|-------|--|--|-------------------------------------|------|
| 1734 | Study of variable range hopping conduction in insulating n-type InSb semiconductor at very low temperature | A. Sybous, A. El kaaouachi, A. Narjis, L. Limouny, S. Dlimi, R. Abdia, G. Biskupski, J. Hemine | CEC/ICMC, AIP Conf. Proc. | 2012 |
| 1735 | Study of electrical resistivity in 2D Si-MOSFETS at very low temperature | L. Limouny, A. El kaaouachi, R. Abdia, A. Narjis, G. Biskupski, J. Hemine, S. Sybous, S. Dlimi | CEC/ICMC, AIP Conf. Proc. | 2012 |
| 25117 | Ondes électromagnétiques dans les circuits photoniques à base de stubs. | Abdelkader Mouadili, El Houssaine El Boudouti | Editions universitaires européennes | 2016 |

*Chapitres d'ouvrage

| ID | Intitulé chapitre | Auteurs | Ouvrage | Editeur | Date |
|------|--|---|------------|---------|------|
| 1626 | Comparison between quantum mechanical computations of NLO properties and experimental data in selected functionalized azo-dyes | B. Sahraoui · A. Karakas · A. Hajjaji · Y.E. Kouari · A. Migalska-Zalas | icton 2012 | IEEE | 2012 |

*Prix et distinctions

| ID | Intitulé | Auteurs | Événement | Organisme | Date |
|-------|--|-------------------------------|----------------------------|--------------|------------|
| 25233 | Etude de la jonction tunnel et matériaux constituant la cellule photovoltaïque | A. Amine thesard de Mr Zazoui | Prix de la meilleure thèse | MASEN ET GIZ | 2015-01-01 |

| ID | Intitulé | Auteurs | Evénement | Organisme | Date |
|-------|---|-------------------------------|--|---|------------|
| | mutijonction à base de semiconducteurs III-V | | | | |
| 26928 | numerical study on the performance of quantum dot intermediate band solar cells | MEZIANE JAAFAR, ZAZOUI Mimoun | the 1st international meeting on alternative & green energies 'IMAGE'18' | faculte des scineces et techniques Mohammedia | 2018-05-08 |

*Thèses en cours

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription |
|------|--------------------|--|--------------------|-------------------------------|
| 882 | ZAZI Khalida | Modélisation, simulation et optimisation des performances de cellules photovoltaïques en couches minces | ZAZOUI Mimoun | 2012 |
| 3159 | Zineb Ezzerrouti | Récupération d'énergie houlomotrice à partir de polymères électroactifs | Youssef EL KOUARI | 2016 |
| 3160 | Mustapha EL MLILES | Amélioration du rendement des panneaux photovoltaïques | Youssef EL KOUARI | 2016 |
| 3842 | ABOURRAJAA Lahcen | Modélisation Numérique de l'interaction fluide-structure | BAHRAR Bennasser | 2017 |
| 3843 | Sahar Eddiany | « Etude, réalisation et expérimentation d'un capteur solaire cylindro-parabolique dans le site de Mohammedia | ACHOUYAB EL HASSAN | 2017 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription |
|------|----------------------|---|--------------------|-------------------------------|
| 3216 | Fatima azzahra Kabil | Etude et modélisation d'un système énergétique | ASSOU MOHAMMED | 2016 |
| 3844 | Sahar Eddiany | « Etude, réalisation et expérimentation d'un capteur solaire cylindro-parabolique dans le site de Mohammedia | ACHOUYAB EL HASSAN | 2017 |
| 3217 | Youssef Harakat | Le traitement des rejets de tannerie | ASSOU MOHAMMED | 2016 |
| 3218 | Brahim Lachgar | Traitement des rejets industriels | ASSOU MOHAMMED | 2014 |
| 176 | LHACHIMI Hicham | Stratégies de contrôle de la génératrice asynchrone à double alimentation pour intégration dans un microréseau (Microgrids) | Youssef EL KOUARI | 2015 |
| 3239 | Sara Borji | Modélisation d'un rayon laser dans un milieu chauffé | BENZIRAR MOHAMMED | 2011 |
| 177 | LOUGDALI Meriem | Matériaux innovants pour l'optique et l'énergie photovoltaïque | Youssef EL KOUARI | 2015 |
| 3910 | Rami REDA | ...Modélisation et Simulation sous MatLab/Simulink de l'intégration d'un générateur éolien dans un réseau électrique | BAHRAR Bennasser | 2017 |
| 3240 | Latifa Sabri | Energie solaire | BENZIRAR MOHAMMED | 2013 |
| 3343 | Mohammed MGAIZAR | Etude et réalisation d'une micro centrale électrique hybride intelligente | Benyounes OUKARFI | 2015 |
| 466 | Noureddine ben afkir | Modélisation des structures à base des boites qunatique pour les cellules photovoltaïque | MEZIANE JAAFAR | 2013 |
| 3344 | Fayrouz DKHICHI | Identification et commande d'un système dynamique à | Benyounes OUKARFI | 2011 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription |
|------|------------------------|--|----------------------|-------------------------------|
| | | base de réseaux de neurones artificiels, mise en oeuvre par FPGA | | |
| 473 | Mohammed Bouabdllaoui | Modélisation et caractérisation des cellules photovoltaïques troisième génération de technologie utilisant nouveaux concepts pour augmenter le rendement. | ZAZOUI Mimoun | 2013 |
| 3372 | ALIOUSALAH Hamza | Mise en oeuvre d'un outil d'intelligence artificielle pour la prédiction de la puissance fournie par un système solaire photovoltaïque en fonction de paramètres météorologiques | Benyounes OUKARFI | 2016 |
| 474 | Kinani Mohammed adnane | Amélioration des modèles pour cellules photovoltaïques utilisant les nouveaux concepts pour améliorer le rendement de conversion | MIR YAMINA | 2015 |
| 3375 | HAMIDI Meryem | Gestion solidaire des énergies Renouvelables à base d'intelligence artificielle. | Benyounes OUKARFI | 2016 |
| 476 | El yazidi Mohammed | Etude et recherche d'une configuration optimale d'un parc éolien et précision à courte échéance de sa production énergétique | YEZNASNI ABDERRAHMAN | 2014 |
| 4746 | Yassine Leghraoui | Elaboration et caractérisation de structures perovskites pour des applications photovoltaïques | Fazouan Nejma | 2017 |
| 3376 | AOUKACH Basma | Gestion d'un système à énergie renouvelable multi sources par les méthodes d'inte | Benyounes OUKARFI | 2016 |
| 479 | Ibrahim Bziz | Etude par méthode ab initio des propriétés physiques des nanostructures à base de semi-conducteurs CdS | ATMANI EL HOUSSINE | 2015 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription |
|------|----------------------|--|----------------------|-------------------------------|
| 3408 | LOUGDALI Meriem | Matériaux innovants pour l'optique et l'énergie photovoltaïque | Youssef EL KOUARI | 2015 |
| 480 | latifa sabri | Etude de l'impact des paramètres climatiques sur les performances des centrales solaires CSP (Concentrated Solar Power) et PV (Photovoltaic) | BENZIRAR MOHAMMED | 2014 |
| 3409 | LHACHIMI Hicham | Stratégies de contrôle de la génératrice asynchrone à double alimentation pour intégration dans un microréseau (Microgrids) | Youssef EL KOUARI | 2015 |
| 481 | sara borji | Recherche sur les hydroliennes | BENZIRAR MOHAMMED | 2013 |
| 3450 | SAADI Hajar | Elaboration et Caractérisation des Nanostructures à base de semiconducteurs | ATMANI EL HOUSSINE | 2016 |
| 482 | RACHIDI ABDERRAHIM | Modélisation des propriétés des nanostructures à base de semiconducteurs ZnSe | ATMANI EL HOUSSINE | 2014 |
| 4750 | Hind LAMKAOUANE | Synthèse de verres moléculaires à base de carbazole pour des applications photovoltaïques | MIR YAMINA | 2017 |
| 3451 | FAKHREDDINE Charazad | Etude de l'énergie solaire thermique | ATMANI EL HOUSSINE | 2016 |
| 484 | TARBI Amal | Etude des propriétés des nanostructures à base de semiconducteurs Ga(1-x)Al(x)P | ATMANI EL HOUSSINE | 2013 |
| 3452 | NASIH Said | Elaboration sol gel et caractérisation de nanostructures d'oxyde de zinc dopées et codopées | Fazouan Nejma | 2015 |
| 879 | KHATIB Hamza | Etude expérimentale et numérique de la nocivité des défauts dans les structures sudées avec prise en | YEZNASNI ABDERRAHMAN | 2012 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription |
|------|-----------------------|--|---------------------|-------------------------------|
| | | ciompte des contraintes résiduelles | | |
| 4752 | Kawtar ESSOUDY MOURRY | Etude expérimentale et théorique de nouveaux nano molécules à base de matériaux organiques pour les applications en photovoltaïque | Youssef EL KOUARI | 2017 |
| 3453 | ES-SMAIRI Adil | Etude DFT de nanostructures semiconductrices non dopées et dopées | Fazouan Nejma | 2015 |
| 880 | RAFIK YASSINE | Efficacité énergitique dans le secteur du bâtiment | EL AZRAK ABDELLATIF | 2014 |
| 4753 | Kawtar ESSOUDY MOURRY | Etude expérimentale et théorique de nouveaux nano molécules à base de matériaux organiques pour les applications en photovoltaïque | Youssef EL KOUARI | 2017 |
| 881 | Aazi Mohammed | Etude par méthode ab initio des propriétés physiques des nanostructures à base de semi-conducteurs ZnTe | ATMANI EL HOUSSINE | 2015 |

***Thèses soutenues**

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription | Date de soutenance |
|------|-----------------|--|--------------------|-------------------------------|--------------------|
| 3839 | Mohammed TAMANI | Modélisation Numerique de la Cavitation dans les écoulements transitoires en conduites | BAHRAR Bennasser | 2011 | 2015-10-24 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription | Date de soutenance |
|------|------------------------|---|--------------------|-------------------------------|--------------------|
| 44 | Siham SBII | Apport dynamique des données de l'ozone autour de la tropopause | ZAZOUI Mimoun | 2011 | 2015-07-15 |
| 5140 | Mohammed Bouabdellaoui | Epitaxie, condensation et gravure des nanostructures Si/Si _{1-x} Gex pour des applications photoniques et microélectroniques | ZAZOUI Mimoun | 2012 | 2018-11-24 |
| 3840 | HASSAN Samri | Modélisation numérique des profils radiaux de la vitesse axiale et de la contrainte pariétale dans les écoulements laminaires transitoires en conduites | BAHRAR Bennasser | 2010 | 2015-12-26 |
| 45 | Ahmed REBBANI | Contribution à l'optimisation du stockage direct de l'énergie électrique dans une plateforme d'énergie renouvelable intelligente | ZAZOUI Mimoun | 2011 | 2014-12-20 |
| 5141 | Sara borji | Etude numérique de la propagation d'une onde lumineuse dans une turbulence thermique en vue de mesurer la variance des fluctuations de température | BENZIRAR MOHAMMED | 2012 | 2018-12-15 |
| 46 | Abdelaziz AMINE | Contribution l'étude et à la modélisation la jonction tunnel et les matériaux constituant la cellule photovoltaïque multijonction à base de semiconducteurs III-V | ZAZOUI Mimoun | 2010 | 2014-12-13 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription | Date de soutenance |
|------|---------------------|---|----------------------|-------------------------------|--------------------|
| 5147 | Nouredine Ben Afkir | Etude et modelisation des structures à base des boites quantiques pour des applications photovoltaïques | MEZIANE JAAFAR | 2012 | 2018-12-01 |
| 3215 | Hamza Khatib | Analyse expérimentale et numérique de l'influence des défauts de soudage | YEZNASNI ABDERRAHMAN | 2012 | 2016-07-01 |
| 47 | Lhoucine BAHATI | Reconnaissance et classification des primitives en vue de régénération musicale par alphabets personnalisés et évolutifs | ZAZOUI Mimoun | 2010 | 2013-11-07 |
| 5150 | Amal TARBI | Etude expérimentale et modélisation par la méthode des réseaux de neurones artificiels, des propriétés physiques des semiconducteurs à base de GaInP et de la pérovskite LaSrMnO3 | ATMANI EL HOUSSINE | 2012 | 2018-12-03 |
| 5500 | EL HALLANI GHIZLAN | Elaboration et caractérisation de couches minces d'oxyde de zinc dopées et codopées (Al, Mg, Sn) pour des applications en photovoltaïque | Fazouan Nejma | 2012 | 2018-03-10 |
| 115 | Mohammed Khalis | Caractérisation, Simulation et Optimisation des Cellules Photovoltaïques | ZAZOUI Mimoun | 2009 | 2013-01-19 |
| 181 | Mohammed SROUT | Caractérisation Optique, Electro-optique et Diélectrique des Matériaux Cristaux Liquides Ferroélectriques Photo-Sensibles | HEMINE JAMAL | 2013 | 2015-07-15 |

| ID | Nom Prénom | Sujet | Directeur de thèse | Année de première inscription | Date de soutenance |
|------|--------------------|---|--------------------|-------------------------------|--------------------|
| 4217 | Khalida Zazi | Modelisation et simulation des cellules photovoltaïques simples et Multijonctions et contribution à la mise en place d'une installation connectée au réseau | ZAZOUI Mimoun | 2011 | 2017-11-25 |
| 4744 | EL KOUARI YOUSSEF | Optimisation de l'énergie issue de source renouvelable type photovoltaïque et caractérisation de matériaux pour optique non linéaire | Benyounes OUKARFI | 2013 | 2017-07-29 |
| 4745 | MOHAMED KHULI | Etude par la méthode DFT des oxydes conducteurs transparents n-ZnO, p-ZnO et nanostructures ZnO pour des applications en photovoltaïque | Fazouan Nejma | 2012 | 2017-12-29 |
| 4747 | El Hassan ACHOUYAB | Modélisation théorique et numérique de l'interaction fluides-structures (Habilitation) | BAHRAR Bennasser | 2010 | 2014-09-06 |
| 3838 | ACHOUYAB El Hassan | Modélisation Théorique et Numérique des Phénomènes de Coup de Bélier avec Prise en Compte de l'Interaction Fluide Structure | BAHRAR Bennasser | 2010 | 2016-01-22 |
| 4797 | Fayrouz dkhichi | Modelisation d'un systeme photovoltaïque, identification et commande par réseaux de neurones | Benyounes OUKARFI | 2011 | 2017-07-10 |