



**Production scientifique  
2012-2015  
Energies renouvelables & dynamique des systèmes**

**\*Publications indexées**

| ID    | Intitulé   | Année | Journal  | Auteurs  |
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| 11419 | On the quasiperiodic galloping of a Wind-excited tower.  | 2013  | Journal of Sound and Vibration 332 (2013) 4059-4066<br>(www.elsevier.com/locate/jsvi)        | Ilham Kirrou., Lahcen Mokin., Mohamed Belhaq.    |
| 11422 | Influence of quasi-periodic gravitation modulation on convective instability of reaction fronts in porous media. | 2012  | Commun Nonlinear Sci Numer Simulat 17 (2012) 1588-1596<br>(www.elsevier.com/locate/CNSNS).   | Kamal El Karouni., Kamr Allali., Mohamed Belhaq. |
| 11424 | Effect of contact stiffness modulation in contact- mode AFM under subharmonic excitation.                        | 2013  | . Commun Nonlinear Sci Numer Simulat 18 (2013) 2916-2925<br>(www.elsevier.com/locate/CNSNS). | Ilham Kirrou., Mohamed Belhaq.                   |

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| 11435 | Explanation of Co magnetic moment enhancement in (Co,Cu) Doped ZnO by first principale calculations | 2012  | Journal of superconductivity and Novel magnetism Vol 25 Issue 7 p: 2529- 2532                        | A.Amiri,.M.Abid,. H.Iassri,. E.K.Hlil.              |
| 11436 | Galloping of Wind-excited Tower under External Excitation and Parametric Damping.                   | 2014  | Journal of Modeling, Simulation, Identification, and Control (2014) Received: March 31, 2014. Publis | Ilham Kirrou., Lahcen Mokin., Mohamed Belhaq.       |
| 11442 | Modelingof the systems piloting training institutions   | 2012  | International journal on computer science and Engeneering IJCSE Vol 4 N°02                           | A. Atmani ,. M. Abid,. H. Lassri,. B. Bensassi      |
| 11449 | Contribution to modeling of production systems skills   | 2012  | International journal on computer science and Engeneering IJCSE Vol 4 N°02                           | A.Atmani ,.M.Abid,.H.Iassri,.W.Darchy ,.B.Bensassi. |
| 11485 | On the delayed van der Pol oscillator with time-varying feedback gain                               | 2015  | Applied Mechanics and Materials  | M.Hamid., M. Belhaq .                               |
| 11491 | ANALYTICAL APPROXIMATION OF HETEROCLINIC BIFURCATION IN A 1:4 RESONANCE.                            | 2012  | International Journal of Bifurcation and Cheos.  | A.FAHSI.,M. Belhaq.                                 |
| 11492 | . GALLOPING OF A WIND-EXCITED TOWER UNDER INTERNAL PARAMETRIC DAMPING.                              | 2014  | Journal of Vibration and Acoustics (2014).   | L.Mokni., I.Kirrou., M. Belhaq.                     |
| 11495 | EFFECT OF ELECTROMAGNETIC ACTUATION ON CONTACT LOSS IN A  | 2015  | Journal of Computational and Nonlinear Dynamics  | A. Bichir.,M. Belhaq.                               |

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| 11498 | Chaos in a magnetic pendulum subjected to tilted excitation and parametric damping  | 2012  | Hindawi publishing corporation   | C.A.Kitio Kwuimya,. C.Nataraja,. Mohamed Belhaqb. |
| 11499 | EFFECTS OF A SLOW HARMONIC EXCITATION ON AN ATOMIC FORCE MIRCOSCOPE SYSTEM. IUTAM   | 2015  | Sympsium on Analytical Methods in Nonlinear Dynamics                               | Faouzi Lakrad., Mourad Khadraoui.,Mohamed Belhaq. |
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| 11508 | COMPUTATION OF THE COMPLIANCE MATRIX FO ROTARY LIP SEAL. « HIDRAULICA » (No.2/2013  | 2013  | Magazine of hydraulics,. Pneumatics,. Tribology,.Ecology,.Sensoricss,.Mechatronics | M.Elgadari,.A.Fatu,.M.Hajjam,. M.Belhaq.          |
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| 11518 | INFLUENCE OF PERIODIC AND QUASI-PERIODIC GRAVITATIONAL MODULATION ON CONVECTIVE INSTABILITY OF REACTION FRONTS IN POROUS MEDIA. | 2013  | Scientific Canvas of Nonlinearity and Complex Dynamics                             | K.Allali ., M.Belhaq.                             |
| 11524 | Magnetic Studies of Spin Wave in Fe/Ag Multilayer Films.  | 2012  | Supercond Nov Magn   | K. Chafai ., H. Lassri ., M. Abid ., E.K. Hlil.   |
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| 11537 | The Comparative Study of the Temperature Distribution of Fiber Laser with Different Pump Schemes                                  | 2013  | Open Journal of Metal, 2013, 3, 64-71                        | M. Abouricha., A. Boulezhar., M. Habiballah.                          |
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| 11545 | Comparative study of the birefringence in photonic crystal lasers   | 2015  | Optics and Photonics Journal                                 | N. Rouchdi., M. Abouricha., A. Boulezhar., M. Kriaa.                  |
| 11549 | Validation of kaniennen's rule for fissured Co-Cr pieces used for adjoint prosthesis and calculation of their critical parameters | 2015  | PCN journal, vol. 75   | A. Essakhi., A. Boulezhar., Kh. Elboussiri .                          |
| 11555 | Numérique simulation of thermal losses on the parabolic trough collector under Transys  | 2013  | Optical electronics and advanced materials                   | D.Saifaoui., A.Aitalleb., A.El Kebch., A.Kerbal., M.El Mouden.        |
| 11561 | Modeling and simulation of the agglomeration of carbonaceous dust in radio frequency discharge using Monte Carlo technique        | 2013  | Journal of Optical quantum electron,                         | N.Dlimi., A.El Kebch., D.Saifaoui., A.Dezairi., M.El Mouden.          |
| 11566 | Study of transport phenomena in plasma by extended irreversible thermodynamics  | 2013  | Journal of Optoelectronics and Advanced Materials JOAM Vol15 | R Moulitif., A Dezairi., S Mizani., D Saifaoui., J Louafi., R Elaoui. |

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| 11767 | Convection of Polymerization Font with Solid Product under Quasi-Periodic Gravitational Modulation 14                  | 2014  | SPRINGERLINK                                | Karam Allali, Saadia Assiyad, Mohamed Belhaq.           |
| 11771 | Quasi-periodic oscillation envelopes and frequency locking in rapidly vibrated nonlinear systems with time delay.      | 2013  | SPRINGERLINK                                | Mustapha Hamid, Mohamed Belhaq.                         |
| 11775 | Heteroclinic connections in the 1:4 resonance problem using nonlinear transformation method.                           | 2014  | SPRINGERLINK                                | K.W.Chung. Y.Y.Cao. A.Fahsi. M.Belhaq.                  |
| 11778 | Control of bistability in non-contact mode atomic force microscopy using modulated time delay.                         | 2015  | SPRINGERLINK                                | Ilham Kirrou, Mohamed Belhaq.                           |

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| 11802 | CONTROL OF BISTABILITY IN A DELAYED DUFFING OSCILLATOR  | 2012  | SPRINGERLINK  | Mustapha Hamid., and Mohamed Belhaq.   |
| 15812 | Modeling and simulation of physical sputtering  | 2016  | Molecular Crystals and Liquid Crystals  | A. El Kebch, N. Dlimi, D. Saifaoui, A. Dezairi & M. El Mouden  |
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| 15820 | «Numerical investigation of a reverse osmosis desalination system with cogeneration and renewable energy Integration », | 2016  | International Journal of Scientific & Engineering Research Volume 7, Issue 8, August 2016 (IJSER) | Y. Aroussy <sup>1</sup> , M. Nachtane <sup>1</sup> , D.Saifaoui <sup>1</sup> , M.Tarfaoui <sup>2</sup> , M.Rouway <sup>1</sup> |
| 15821 | «Thermodynamic performance  | 2016  | International Journal of Applied  | Y. Aroussy <sup>1</sup> , M. Nachtane <sup>1</sup> ,   |

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| 15825 | Journal of Vibration and Control, 2016  | 2016  | Journal of Vibration and Control<br>January 2016 vol. 22 no. 1<br>145-158                   | L Mokni, I Kirrou, M Belhaq  |
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| 15833 | Spin wave study and optical properties in Fe-doped ZnO thin films prepared by spray pyrolysis technique                           | 2016  | Optical Materials Volume 57, July<br>2016, Pages 28–33                                      | F. Lmai a , R. Moubah b, * , A. El Amiri b , Y. Abid b , I. Soumahoro c, d , N. Hassanain c , S. Colis d , G. Schmerber d , A. Dinia d , H. Lassri b |
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|       | investigation of an oscillating wing hydrokinetic turbine and horizontal axis marine current turbines                              |       |  |  |
| 22439 | Effect of plastic deformation on the optical and electrical properties in Cd <sub>0.96</sub> Zn <sub>0.04</sub> Te single crystals | 2017  | Journal of Physics and Chemistry of Solids   | F. Lmai a,b,n , R. Moubah c,nn, A.El. Amiri c , A. Boudali d , E.K. Hlil e , H. Lassri c |
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| 22499 | Synthesis, structural and dielectric properties of Ce-doped lead lanthanum titanate  | 2017  | Materials Research Bulletin  | H. Lemzioukaa,b, *, L.H. Omarib,c , R. Moubahb , M. Abida , H. Lassrib , S. Sayouric     |
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| 23172 | 12. Performances des cellules solaires à base de Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) : Une analyse par simulations numériques via le simulateur SCAPS | 2015  | Afrique SCIENCE, 11, 4 (2015) 16-23  | Joël Hervé NKUISSI TCHOGNIA, Bouchaib HARTITI, Jean-Marie NDJAKA, Abderraouf RIDAH et Philippe THEVENIN        |
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| 23182 | Copper indium gallium disulphide (CuInGaS <sub>2</sub> ) thin films deposited by spray pyrolysis for solar cells: influence of deposition time in controlling properties of sprayed CuInGaS <sub>2</sub> absorbers " | 2016  | Optical and Quantum Electronics. (2016) 48:524.                   | Ahmed Kotbi Bouchaib Hartiti, Salah Fadili, Philippe Thevenin  |
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| 23206 | . Synthesis and characterization of CuO thin films grown by chemical spray pyrolysis   | 2017  | Optical and Quantum Electronics, 49(2),70 (2017)   | Moumen, A., Hartiti, B., Thevenin, P., Siadat, M.  |
| 23208 | Performance Analysis and Comparison of Different Photovoltaic Modules Technologies under Different Climatic Conditions in Casablanca | 2017  | Journal of Fundamentals of Renewable Energy and Applications 07(03) January 2017 DOI 10.4172/2090-45 | Elmehdi Karami, Mohamed Rafi, Amine Haibaoui, Abderraouf Ridah, Bouchaib Hartiti and Philippe Thevenin |
| 23209 | Analysis and comparison of different PV technologies for determining the optimal PV panels- A case study in Mohammedia , Morocco     | 2017  | IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), Volume 12, Issue 1               | .Elamim, B. Hartiti, A.Haibaoui, A. Lfakir, P.Thevenin,  |
| 23210 | Performance Indicators For Grid-Connected PV Systems: A Case Study   | 2017  | Journal of Electrical and Electronics Engineering (IOSR-JEEE), Volume 12,                            | Performance Indicators For Grid-Connected PV Systems: A Case Study                                     |

| ID    | Intitulé   | Année | Journal  | Auteurs  |
|-------|--|-------|--|--|
|       | In Casablanca, Morocco   |       | Issue 1, (2017                                     | In Casablanca, Morocco   |
| 23214 | Study of kesterite CZTS thin films deposited by spin coating technique for photovoltaic applications                 | 2017  | Superlattices and Microstructure. Elsevier, (2017) | Ahmed ZITI, Bouchaib HARTITI, Hicham LABRIM, Salah FADILI, Abderraouf RIDAH, Bouchra BELHORMA, Mounia TAHRI, Philippe THEVENIN |
| 28154 | structural analysis of offshore wind turbine blades using finite element method                                      | 2018  | wind Engineering                                   | Boudounit Hicham; Tarfaoui Mostapha;Dennoun Saifaoui   |
| 28158 | Evaluation of durability of composite materials applied to renewable marine energy : case of dudedcted tidal turbine | 2018  | Energy Reports                                     | Nachtane Mourad; Tarfaoui Mostapha; Saifaoui Dennoun .....   |
| 29454 | Energy harvesting in a mathieu-van der Pol-Duffing MEMS device using time delay                                      | 2018  | Nolinear day                                       | Mohamed Belhaq; Zakaria Ghouli ; Mustapha Hamdi  |
| 29455 | On Mathematical modelling of linear fleural vibrations of spinning Rayleigh beams                                    | 2018  | Journal of Sound and Vibration                     | Aoudi mohamed Amine ; Lakrad Faouzi  |
| 29456 | Homoclinic-doubling and homoclinic-gluing bifurcations in the Takens-Bogdanov normal form with D4 symetry            | 2018  | Chaos 28   | B.W.Qin;K.W.Chung;A.J.Rodriguez,M.B elhaq  |
| 29457 | Energy harvesting in a delayed Rayleigh harvester device   | 2018  | Matec web of conference                            | I.Kirrou; A.Bichri ; M.Belhaq  |
| 29458 | Linear flexural natural frequencies  | 2018  | Matec web of conference                            | Aouadi Mohamed Amine ; Faouzi  |

| ID    | Intitulé   | Année | Journal                                     | Auteurs   |
|-------|--|-------|---|---|
|       | and stability analysis of spinning Rayleigh beams :application to clamped -clamped beams   |       |   | lakrad  |
| 29459 | Invariant slow manifolds of an atomic force Microscope system under the darjaguin -Toporov forces and a Slow harmonic base motion            | 2018  | Matec web of conference                     | Baghdadi sara ; lakrad faouzi ; belhaq mohamed  |
| 29460 | Natural convection in a horizontal porous annulus under quasi-periodic Gravitational modulation  | 2018  | Matec web of conference                     | Belabid Jabrane; karam Allali; belhaq Mohamed   |
| 29461 | Improving energy harvesting in excited duffing harvester device using a delayed piezoelectric coupling                                       | 2018  | Matec web of conference                     | Z. Ghouli; M.Hamdi ; M.Belhaq   |
| 29462 | A nonlinear model of the hand arm system and parameters identification using vibration transmissibility                                      | 2018  | Matec web of conference                     | Nahid Hida; Abid Mohamed lakrad faouzi  |
| 29650 | Elaboration and Characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Absorber Layer by Sol Gel Method for Solar Cells Applications. | 2018  | Materials Focus 08/2018; 7(4).              | Ahmed Ziti, Bouchaib Hartiti, H. Labrim, Salah Fadili, A. Ridah, Bernabé Marí Soucase, Mollar Miguel, Philippe thevenin:                        |
| 29652 | Preparation and characterization of nanostructured CuO thin films using spray pyrolysis technique.   | 2018  | Superlattices and Microstructures 07/2018,; | Abderrahim Moumen, Bouchaib Hartiti, Elisabetta Comini, Zahira El khalidi, Hashitha M.M. Munasinghe Arachchige, Salah Fadili, Philippe Thevenin |
|       |  |       |   |   |

| ID    | Intitulé   | Année | Journal   | Auteurs  |
|-------|--|-------|---|--|
| 29653 | Growth and Characterization of CuInS <sub>2</sub> Thin Films for Photovoltaic Applications   | 2018  | Materials Focus 06/2018; 7(3):338-341., DOI:10.1166/mat.2018.1516 | Ahmed Kotbi, Bouchaib Hartiti, Salah Fadili, Abderraouf Ridah, Philippe Thevenin   |
| 29654 | Nickel oxide optimization using Taguchi design for hydrogen detection  | 2018  | International Journal of Hydrogen Energy 05/2018; ,               | Zahira El khalidi, Bouchaib Hartiti, Salah Fadili, Philippe Thevenin: Nickel oxide optimization using Taguchi design for hydrogen detection. |
| 29670 | The Temperature Effect on the RLCq circuit   | 2018  | Acta physica Polonica A   | J.Batouli,M.El Baz; A.Maaouni, M.taibi; A. Boulezhar   |
| 29735 | Gravitational potential generated by an arc bent into an elliptical shape  | 2018  | Physics & Astronomy International Journal                         | Nour Eddine Najid  |
| 29739 | Preliminary Assessment of an Organic Rankine Cycle Power Plant Derived by Linear Fresnel Reflector   | 2018  | INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH                | Elmaanaoui Youssef ‡, Saifaoui Dennoun   |
| 29746 | Magnetic, half-metallicity and electronic studies of Cd <sub>1-x</sub> Zn <sub>x</sub> Cr <sub>2</sub> Se <sub>4</sub> chromium selenospinel | 2018  | Journal of Magnetism and Magnetic Materials                       | M. Bouhboua,*, R. Moubaha, K. Bakkarib, H. Zaaric, A. Sabrallahd, F. Khelfaouie, N. Mlikib,M. Abid. A. Belayachif, H. Lasri                  |
| 29747 | Assessment of Energy Production Potential from Tidal Stream Currents in Morocco  | 2018  | energies  | Mourad Nachtane 1,2,* ID , Mostapha Tarfaoui 2 ID , Karim Hilmi 3 , Dennoun Saifaoui 1 and Ahmed El Moumen 2                                 |
| 29750 | Damage prediction of horizontal axis marine current turbines under hydrodynamic, hydrostatic and impacts loads                               | 2017  | Composite Structures  | M. Nachtane a,b , M. Tarfaoui a,† , A. El Moumen a , D. Saifaoui b   |



| ID    | Intitulé  | Année | Journal   | Auteurs  |
|-------|---|-------|---|--|
| 29781 | • Optimal design of stand-alone hybrid power system using wind and solar energy sources                       | 2018  | International Journal of Energy Technology and Policy               | M.Lamnadi, M.Trihi, A.Boulezhar                    |
| 29782 | Modeling and performance evaluation of the skills production systems: Using the ECOGRAI method                | 2018  | WSEAS TRANSACTIONS on SYSTEMS and CONTROL                           | ABDERRAHMANE RHOUZALI, BENAYAD NSIRI, MOHAMED ABID |
| 29886 | Elaboration of a Conductive Textile by Coating for Clothes Equipped with Fourth-Generation Photovoltaic Cells | 2018  | Journal of Materials Science and Engineering B 8 (3-4) (2018) 77-85 | Hajar Jaouani1,, Denoun Saifaoui and Mohamed Dalal |
| 30863 | Electromagnetic control of nonlinear behavior of an excited cantilever beam in a single Mode Approximation    | 2018  | Journal of vibration testing and systems Dynamics                   | Amine Bichri ; Jarir mahfoud; Mohamed Belhaq       |

### \*Communications internationales

| ID    | Intitulé  | Auteurs                                | Conférence  | Ville      | Pays     | Date       |
|-------|---|--|---|------------|----------|------------|
| 11651 | Analytical approximation of heteroclinic bifurcation in 1:3 resonance using a nonlinear transformation method | B.W.Qin.,K.W.Chung.,A.Fahsi.,M.Belhaq. | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech, | Morocco. | 2014-01-01 |
| 11655 | Crack's bifurcation in an anisotropic material  | F.Lahna.,N.Belrhazi.,A. El Kaaba.      | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech, | Morocco. | 2014-01-01 |

| ID    | Intitulé   | Auteurs                        | Conférence  | Ville      | Pays     | Date       |
|-------|--|--------------------------------|---|------------|----------|------------|
| 11658 | Effect of fast frequency excitation on tower oscillations under turbulent wind flow.                             | I.Kirrou.,M.Belhaq.,L.Mokni.   | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech, | Morocco. | 2014-01-01 |
| 11660 | Effect of high-frequency AC electromagnetic actuation on the dynamic of an excited cantilever beam.              | A.Bichri.,M.Belhaq.,J.Mahfoud. | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech, | Morocco. | 2014-01-01 |
| 11661 | Prediction of heteroclinic bifurcation near subharmonic resonances   | A.Fahsi.,M.Belhaq.             | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech  | Morocco  | 2013-01-01 |
| 11665 | Limit cycle in a 2D passive walker model   | M.Fikri.,F.Lakrad.,M.Belhaq.   | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech  | Morocco  | 2014-01-01 |
| 11666 | Frequency shift analysis and hysteresis suppression in contact-mode AFM using contact stiffness modulation       | I.Kirrou.,M.Belhaq.            | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech, | Morocco. | 2014-01-01 |
| 11670 | Influence of the modulation of vibration amplitude on convective instability of reaction fronts in porous media. | K.Allali.,M.Belhaq.            | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014. | Marrakech  | Morocco  | 2012-01-01 |

| ID    | Intitulé   | Auteurs  | Conférence   | Ville      | Pays     | Date       |
|-------|--|--|--|------------|----------|------------|
| 11671 | Galloping of wind-excited tower under external excitation and parametric damping                 | L.Mokni., I.Kirrou., M.Belhaq                          | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014.                        | Marrakech, | Morocco. | 2014-01-01 |
| 11675 | Effects of a high-frequency harmonic voltage on the dynamic of MEMS and its basin of attraction. | F.Lakrad., M.Belhaq.                                   | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014.                        | Marrakech  | Morocco  | 2012-01-01 |
| 11678 | Nonlinear thermal convection in a layer of nanofluid under G-jitter and internal heating effects | B.S.Bhadoria., P.kiran., M.Belhaq.                     | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014                         | Marrakech, | Morocco. | 2014-01-01 |
| 11679 | Effect of time delay on vibroimpact dynamics in a forced hertzian contact oscillator.            | L.Mokni., A.Bichri., M.Belhaq.                         | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014.                        | Marrakech  | Morocco  | 2012-01-01 |
| 11683 | On the control of bistability in non-contact mode AFM using modulated time delay                 | I.Kirrou., M.Belhaq.                                   | 2nd International conference on structural nonlinear dynamics and diagnosis CSNDD 2014.                        | Marrakech, | Morocco. | 2014-01-01 |
| 11686 | Stress intensity factor of isotropic materials used in dentistry                                 | A. Essakhi., K. Elboussairi., A. Boulezhar., F. Lahna. | International conference on structural nonlinear dynamics and diagnosis April 30-2 may Marrakech 2012 Morocco. | Marrakech  | Morocco  | 2012-04-30 |

| ID    | Intitulé  | Auteurs  | Conférence   | Ville                      | Pays     | Date       |
|-------|---|--|--|----------------------------|----------|------------|
| 11781 | .Validation of Kaniennén's rule for fissured CO-Cr used for adjoint prothesis and calculation on their critical parameters                      | A. Essakhi., A. Boulezhar., K. El Boussairi.                           | 2ème International conference on structural nonlinear dynamics and dianosis . Agadir Morocco May 19-21 2014        | Agadir                     | Morocco  | 2014-05-19 |
| 16105 | Analytical and numerical investigation of a sea water desalination plant with integration of renewable marine energy (Jorf Alsafar OCP Morocco) | D. Saifaoui, M. Nachtane and M. Tarfaoui                               | RENEW 2016 2nd International Conference on Renewable Energies Offshore 24 - 26 October 2016 IST - Lisbon, Portugal | Lisbon, Portugal           | Portugal | 2016-10-24 |
| 16107 | Predictions of the dynamic Performance of Horizontal Axis Marine Current Turbines under the effect of different impact scenarios                | M. Nachtane, M. Tarfaoui, D. Saifaoui, A. El Moumen and M. Ait Mohamed | RENEW 2016 2nd International Conference on Renewable Energies Offshore 24 - 26 October 2016 IST - Lisbon, Portugal | Lisbon, Portugal           | Portugal | 2016-10-24 |
| 16108 | The quasi-periodic vibrations in the delayed forced Duffing oscillator  | I. Kirrou, M. Belhaq   | The third International Conference on Structural Nonlinear Dynamics and Diagnosis (CSNDD' Marrakech 2016           | Marrakech, May 23-25, 2016 | Morocco  | 2016-05-23 |
| 16109 | Tapping mode in atomic force microscopes subject to low frequency harmonic excitations  | M. Khadraoui, F. Lakrad  | The third International Conference on Structural Nonlinear Dynamics and Diagnosis (CSNDD                           | Marrakech'2016             | Morocco  | 2016-05-23 |

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|-------|---|---|--|-----------------|---------|------------|
|       |   |   | Marrakech'2016   |                 |         |            |
| 16110 | Energy harvesting from quasi- periodic vibrations in a delayed forced oscillator  | ] Z. Ghouli, M. Hamdi, F. Lakrad, M. Belhaq             | The third International Conference on Structural Nonlinear Dynamics and Diagnosis (CSNDD Marrakech '2016)                          | Marrakech '2016 | Morocco | 2016-05-23 |
| 16111 | Hybrid System for the desalination of sea water   | SAIFAOUI  | UHII CASA, MoroccoICSEMA'16 - The First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco) | MARRAKECH       | Morocco | 2016-03-21 |
| 16112 | DESIGN OF A SOLAR-PUMPED TEM00-MODE ND: ND:YVO LASER FOR GENERATION OF FEW CYCLE LASER PULSES                               | M. ABOURICHA , A. BOULEZHAR                             | MoroccoICSEMA'16 - The First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco)            | MARRAKECH       | Morocco | 2016-03-21 |
| 16114 | OBSERVER BASED CONTROL OF HYBRID EXCITATION SYNCHRONOUS GENERATOR WITH JOULE LOSSES OPTIMIZATION FOR WIND POWER APPLICATION | CHAKIR HOUSSAM EDDINE1, OUADI HAMID1, DENNOUN SAIFAOUI2 | MoroccoICSEMA'16 - The First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco)            | MARRAKECH       | Morocco | 2016-03-21 |
| 16115 | ÉTUDE D'UN SYSTÈME  | SIDI SALAH ECH-   | MoroccoICSEMA'16 - The   | MARRAKECH       | Morocco | 2016-03-21 |

| ID    | Intitulé  | Auteurs  | Conférence  | Ville       | Pays    | Date       |
|-------|---|--|---|-------------|---------|------------|
|       | DE SMART GRID BT ASSURANT GESTION DE RÉSEAU ONEE  | CHARQAOUY1 , DENNOUN SAIFAOU1  | First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco)                        |             |         |            |
| 16116 | NONLINEAR CONTROL OF A DOUBLY FED INDUCTION GENERATOR IN SENSORLESS WIND ENERGY SYSTEMS     | BARRA ADIL2 , OUADI HAMID2 , DENNOUN SAIFAOU1  | MoroccoICSEMA'16 - The First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco) | MARRAKECH ( | Morocco | 2016-03-21 |
| 16117 | CALCULATING INTRINSIC PARAMETERS OF PURE TITAN USED IN IMPLANTOLOGY WITH NUMERICAL METHODS  | ABDELAZIZ ESSAKHI, BOULEZHAR ABDELKADER, FAOUZI LAHNA, DENNOUN SAIFAOU1 , KH. ELBOUSSIRI | MoroccoICSEMA'16 - The First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco) | MARRAKECH   | Morocco | 2016-03-21 |
| 16121 | Heat recovery from sulfuric acid production to desalinate sea water and produce electricity | Y. Aroussy1, D.Saifaoui1, M. Nachtane1 ,M.Tarfaoui2, M.Rouway1                           | 4th International Renewable and Sustainable Energy Conference, Marrakech, 14-17 November 2016                           | Marrakech   | Morocco | 2016-11-14 |
| 16125 | Homoclinic-doubling bifurcation in the Takens-Bogdanov normal form with D 4 symmetry        | K.W. Chung , B.W. Qin , M. Belhaq, A.J. Rodríguez-Luis                                   | International conferences In CSNDD2016  | MARRAKECH   | Morocco | 2016-05-23 |
| 16126 | Liquid-liquid polymerization front  | S. Assiyad, K. Allali, M. Belhaq   | International conferences In CSNDD2016  | MARRAKECH   | Morocco | 2016-05-23 |

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|-------|---|--|---|--------------|---------|------------|
|       | under quasi-periodic gravitational modulation   |  |   |              |         |            |
| 16128 | Energy harvesting from quasi- periodic vibrations in a delayed forced oscillator                        | Z. Ghouli, M. Hamdi, F. Lakrad, M. Belhaq          | International conferences In CSNDD2016  | MARRAKECH    | Morocco | 2016-05-23 |
| 16129 | Analytical approximation of heteroclinic bifurcation near 1:3 and 1:4 resonances                        | Chung , B.W. Qin , M. Belhaq, A.J. Rodríguez-Luis  | Conference in Patterns of Dynamics, Free University of Berlin, July 25-29, 2016, Berlin                                 | Berlin       | Germany | 2016-07-25 |
| 16130 | NONLINEAR CONTROL OF A DOUBLY FED INDUCTION GENERATOR IN SENSORLESS WIND ENERGY SYSTEMS                 | BARRA ADIL2 , OUADI HAMID2 , DENNOUN SAIFAOU1      | MoroccoICSEMA'16 - The First International Conference on Solar Energy and Materials 21-23 Mars 2016 MARRAKECH (Morocco) | MARRAKECH (  | Morocco | 2016-03-21 |
| 19157 | shading efficiency calculation for linear fresnel reflector   | Youssef Elmaanaoui                                 | 2014 International Renewable and Sustainable Energy Conference (IRSEC)  | Ouarzazate   | Morocco | 2014-10-17 |
| 19184 | Effects of a slow harmonic displacement on an atomic force microscope system under Lennard Jones forces | Morad Khadraoui, Faouzi lakrad, and Mohamed Belhaq | CSNDD 2016 - International Conference on Structural Nonlinear Dynamics and Diagnosis                                    | Marrakech    | Morocco | 2016-05-23 |
| 22440 | Development and   | K. ChokAllah, F.LMAI                               | 1ST International   | Ifrane maroc | maroc   | 2017-05-10 |

| ID    | Intitulé  | Auteurs   | Conférence  | Ville   | Pays  | Date       |
|-------|---|---|---|---------|-------|------------|
|       | Characterization of Solar Cells Based on Perovskite Materials   |   | Materials Science and Engineering For Green Energy Conference. May 10-12, 2017 Ifran                              |         |       |            |
| 22441 | «Elaboration of intelligent textile as an electrode for Organic Photovoltaic Cells applications»                                | H. Jaouani, D. Saifaoui, Y. Jouane, H. Ennamiri                         | The international conference on advanced materials for photonics sensing and energy applications                  | Agadir  | Maroc | 2017-03-28 |
| 22442 | 14h30.Thu «Pre-study of possibility to produce desalinate sea water and electricity from heat recovery in sulfuric acid plants» | Y.Aroussy, D.Saifaoui, M.Nachtane, M.Tarfaoui                           | The international conference on advanced materials for photonics sensing and energy applications                  | Agadir  | Maroc | 2017-03-28 |
| 22459 | Energy harvesting in a nolinear harvester under modulated delay amplitude   | ZakariaGhouli ;MustaphaHamdi1 ;FaouziLakrad;Mohamed Belhaq              | Medyna 2017 2nd euro-Mediterranean conference on structuralDynamics and vibroacoustics                            | Seville | Spain | 2017-04-25 |
| 23033 | 1. Contribution to the Study of In2S3: Al Thin Films Properties Grown by Chemical Bath Deposition                               | Samira Elfarrass, Bouchaib Hartiti, Abderraouf Ridah, Philippe Thevenin | The International conference on Advanced Materials for Photonics, Sensing and Energy Applications (AMPSECA' 2017) | Agadir  | Maroc | 2017-03-28 |
| 23034 | 2. Evaluation of Three Types of PV Panels Based   | Amine Haibaoui, Bouchaib Hartiti, Mehdi                                 | The international conference on advanced  | Agadir  | Maroc | 2017-03-30 |



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|-------|--|---|--|--------|-------|------------|
|       | on Silicon Material:A Case Study in Casablanca, Morocco  | Karami, Abderrazzak Elamim, Abderraouf Ridah,Philippe Thevenin  | materials for photonics sensing and energy applications  |        |       |            |
| 23036 | 3. Cadmium Sulfide (CdS) thin films doped In, Sn and Fe by spray pyrolysis using Taguchi method  | Youssef Arba, Bouchaib Hartiti, Abderraouf Ridah, Philippe Thevenin   | The international conference on advanced materials for photonics sensing and energy applications | Agadir | Maroc | 2017-03-30 |
| 23037 | 4. Temperature Growth and Annealing Effects on CdS Thin Films Prepared by Spray pyrolysis  | Asma EZZAKI, Bouchaib Hartiti, Salah Fadili   | The international conference on advanced materials for photonics sensing and energy applications | Agadir | Maroc | 2017-03-30 |
| 23038 | 5. Elaboration and characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) absorber layer by sol gel method for solar cells applications | Ahmed Ziti, Bouchaib Hartiti, Hicham Labrim, Salah Fadili, Abderraouf Ridah, Soucace Bernabé Mari, Miguel Mollar, Philippe Thevenin | The international conference on advanced materials for photonics sensing and energy applications | Agadir | Maroc | 2017-03-30 |
| 23041 | 6. Synthesis of TiO <sub>2</sub> :Cu Thin films obtained by sol gel method   | Zineb ESSALHI, Bouchaib HARTITI, Abderrazak LFAKIR and Philippe Thevenin  | The international conference on advanced materials for photonics sensing and energy applications | Agadir | Maroc | 2017-03-30 |
| 23042 | 7. Growth and characterization of CuInS <sub>2</sub> thin films for photovoltaic applications  | Ahmed Kotbi, Bouchaib Hartiti, Salah Fadili, Abderraouf Ridah, Philippe Thevenin  | The international conference on advanced materials for photonics sensing and energy              | Agadir | Maroc | 2017-03-30 |

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|-------|--|--|--|------------|-------|------------|
|       |  |  | applications   |            |       |            |
| 23044 | 8. Fabrication and Characterization of CuO Thin Films by Spray Pyrolysis Method  | Abderrahim Moumen, Bouchaib Hartiti, Salah Fadili, Mariam Siadat, Philippe Thevenin  | The international conference on advanced materials for photonics sensing and energy applications | Agadir     | Maroc | 2017-03-30 |
| 23046 | 9. Synthesis and precursor effect studies of ZnO thin films for gas sensors applications                                   | Zahira El khalidi, Bouchaib Hartiti, Elisabetta Comini, M.A.H.M.Munasinghe, Salah Fadili, Mariam Siadat, Philippe Thevenin | The international conference on advanced materials for photonics sensing and energy applications | Agadir     | Maroc | 2017-03-30 |
| 23048 | 10. Comparative performance investigation of different pv modules in Errachidia , Morocco                                  | A. Elamim, A.Haibaoui, B. Hartiti, A. Lfakir, A.Battan,P.Thevenin  | The international conference on advanced materials for photonics sensing and energy applications | Agadir     | Maroc | 2017-03-30 |
| 23049 | 11. Effect of In-doping on structural, electrical, and optical properties of ZnO thin films for optoelectronic application | Youssef Ammaih, Bouchaib Hartiti, Abderraouf Ridah, Abderrazak Lfakir, Bernabé Marí, Soucase And Philippe Thevenin         | The international conference on advanced materials for photonics sensing and energy applications | Agadir     | Maroc | 2017-03-30 |
| 23413 | The Improvement Of The Experimental Method By Taguchi's Method To Elaborate The CdS Doped In By Spray Pyrolysis            | Youssef Arba, Bouchaib Hartiti, Abderraouf Ridah , Philippe Thevenin   | International Conference on Advances in Energy Technologies, Environemental Engineering and      | Mohammadia | Maroc | 2017-07-11 |

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|-------|---|---|---|------------|-------|------------|
|       | Technique   |   | Materials Science.<br>(AETEEMS-17)<br>Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20  |            |       |            |
| 23415 | Elaboration and characterization of thin layers based on CIS and CIGS by the electrodeposition technique for photovoltaic application | Amal BOUICH1, Bouchaib HARTITI, Mohamed Ebn TOUHAMI, Diogo M.F.Santos ,Khalid DAKHSI  | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science.<br>(AETEEMS-17)<br>Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20 | Mohammedia | Maroc | 2017-07-11 |
| 23417 | Elaboration Of Gas Sensors Using ZnO Material   | Zahira El Khalidi, Elisabetta Comini, Bouchaib Hartiti, Hashitha M. M. Munasinghe Arachchige, Salah Fadili, Philippe Thevenin | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science.<br>(AETEEMS-17)<br>Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20 | Mohammedia | Maroc | 2017-07-11 |
| 23418 | Determination of Structural and Optical Parameters of TiO <sub>2</sub> :Cu Thin Prepared by Dip Coating Films                         | Z.Essalhi1, B.Hartiti, A.Lfakir, B.Mari, P.Thevenin   | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science.<br>(AETEEMS-17)   | Mohammedia | Maroc | 2017-07-11 |

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|-------|--|--|--|------------|-------|------------|
|       |  |  | Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20   |            |       |            |
| 23419 | Elaboration and characterization of CZTS thin films by dip coating technique for photovoltaic applications | A.Ziti, B. Hartiti, H. Labrim, S. Fadili, A. Ridah, B.Belhorma, M.Tahri, P. Thevenin | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science. (AETEEMS-17)<br>Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23420 | Production Study Of A Grid Connected PV Plant Located In Three Moroccan Cities                             | Amine Haibaoui1, Bouchaib Hartiti, Abderrazzak Elamim, Abderraouf Ridah              | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science. (AETEEMS-17)<br>Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23422 | Simulation and performance evaluation of different solar PV system in Mohammedia , Morocco .               | A. ELAMIM, A.HAIBAOU, B. HARTITI1, A. LFAKIR, P. THEVENIN                            | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science. (AETEEMS-17)<br>Mohammedia, MOROCCO<br>July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |

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|-------|--|--|---|------------|-------|------------|
| 23423 | Spray deposition of Sn:In <sub>2</sub> S <sub>3</sub> thin films for solar cell applications | S. Elfarrass, B. Hartiti, A. Ridah, P. Thevenin                                | International Conference on Advances in Energy Technologies, Environemental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23424 | Numerical Simulation of Multijunction CZTS Solar Cell bySCAPS 1D & AMPS-1D                   | Ali Faddouli, Salah Fadili , Bouchaib Hartiti , Ridah Abderaouf , Ahmed Ziti . | International Conference on Advances in Energy Technologies, Environemental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23426 | Comparison of CZTS-based solar cells and CIGS-based solar cells by the similator SCAPS-1D    | Y.FARFOUR, S. FADILI, B. HARTITI1, A.RIDAH, A.ZITI                             | International Conference on Advances in Energy Technologies, Environemental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23428 | Ab-initio physical properties calculations of  | S. KRIK, B. HARTITI, S. FADILI, A. RIDAH, P.                                   | International Conference on Advances in Energy  | Mohammadia | Maroc | 2017-07-11 |

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|-------|--|---|---|------------|-------|------------|
|       | chalcopyrite and kesterite materials: CIS and CZTS   | THEVENIN  | Technologies, Environemental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20  |            |       |            |
| 23429 | WO3 thin films deposited using low cost spray pyrolysis technique and its suitability for gas sensors applications | Abderrahim Moumen, Bouchaib Hartiti, Salah Fadili, Zahira El khalidi1, Philippe Thevenin, Mariam Siadat | International Conference on Advances in Energy Technologies, Environemental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23431 | Ab-initio calculation of the structural and electronic and optical properties of the CdS and SnO2 components       | Y.NOURI, B. HARTITI, S. FADILI, A.RIDAH, P.THEVENIN   | International Conference on Advances in Energy Technologies, Environemental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20 | Mohammadia | Maroc | 2017-07-11 |
| 23432 | Elaboration and characterization of CZTS thin films by electroplating for  | H. TOURA, B. HARTITI, M. Ebn TOUHAMI, K. DAKHSI   | International Conference on Advances in Energy Technologies, Environemental   | Mohammadia | Maroc | 2017-07-11 |

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|-------|--|---|--|------------|---------|------------|
|       | photovoltaic applications  |   | Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20  |            |         |            |
| 23433 | Preparation and characterization of ZnO thin films deposited by sol-gel spin and dip coating method                                  | A. ZAHRANI1, B. HARTITI, K. ABDERRAFI, S. FADILI, A. LFAKIR, P.THEVNIN                      | International Conference on Advances in Energy Technologies, Environmental Engineering and Materials Science. (AETEEMS-17) Mohammedia, MOROCCO July 10 - 11, 2017. P20 | Mohammadia | Maroc   | 2017-07-11 |
| 23436 | Simulation and performance analysis of 1.86 KWp grid -connected PV system installed on institutional building in Mohammedia, Morocco | ELAMIM Abderrazzak, HARTITI Bouchaib, HAIBAOUI Amine, Philippe THEVENIN, LFAKIR Abderrazzak | In the 3RD EDITION OF THE INTERNATIONAL CONGRESS ON ADANCED TECHNOLOGIES,12-14 April 2017 at ENSA Safi, ICAT 2017 (oral)   | Safi       | Maroc   | 2017-04-14 |
| 30869 | Energy harvesting feedback .....   | M.Hamdi, M.Belhaq, Z.Ghouli   | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018   | Tanger     | Morocco | 2018-07-25 |
| 30871 | Energy harvesting in a excited van der Pol device using time delay   | Z.Ghouli ; M.hamdi ; M.belhaq   | 4th internationale conference on structural Nolinear dynamics and  | Tanger     | Morocco | 2018-07-25 |

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|-------|---|----------------------------------|--|--------|---------|------------|
|       | in the electrical circuit                             |                                  | diagnosis CSNDD 2018   |        |         |            |
| 30872 | Homoclinic doubling and homoclinic .....              | K.W.Chung ; B.W.Qin ; M.belhaq   | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018 | Tanger | Morocco | 2018-07-25 |
| 30873 | Natural convection in a horizontal porous annulus ... | J.Belabidi ; K.Allali ; M.belhaq | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018 | Tanger | Morocco | 2018-07-25 |
| 30874 | Linear modeling of 3D.....                            | M.A.Aouadi, F.Lakrad             | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018 | Tanger | Morocco | 2018-07-25 |
| 30875 | two models of atomic force.....                       | S.Baghdadi ; F.lakrad            | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018 | Tanger | Morocco | 2018-07-25 |
| 30876 | Suppression of Chaos by a slow harmonic .....         | A. Chtouki ,F.Lakrad, M.Belhaq   | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018 | Tanger | Morocco | 2018-07-25 |
| 30877 | Energy harvesting feedback .....                      | M.Hamdi, M.Belhaq, Z.Ghouli      | 4th internationale conference on structural Nolinear dynamics and diagnosis CSNDD 2018 | Tanger | Morocco | 2018-07-25 |
| 30878 | The hand arm system                                   | N.Hida, M.Abid, F.lakrad         | 4th internationale   | Tanger | Morocco | 2018-07-25 |



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|    | vibrations ..... |         | conference on structural Nolinear dynamics and diagnosis CSNDD 2018 |       |      |      |

### \*Communications nationales

| ID    | Intitulé  | Auteurs  | Conférence   | Ville           | Date       |
|-------|---|--|--|-----------------|------------|
| 11444 | Etude numérique de la distribution de la température pour différents types de pompage dans un laser à fibre | M. Abouricha., A. Boulezhar., M. El Mouden., N. Rouchdi. | YDCFLS, Telecom 2013 à Rabat   | Rabat           | 2014-01-23 |
| 11459 | Numerical Model of a Q-Switched double -clad fiber laser  | M. Abouricha., A. Boulezhar., N. Rouchdi .               | 2ème International conference on structural nonlinear dynamics and dianosis Agadir Morocco   | Agadir          | 2014-05-19 |
| 11477 | Study of thermal stress and thermo-optic effects in high average power photonic crystal fiber lasers        | M. Abouricha.,A. Boulezhar., M. El Mouden.,N. Rouchdi.   | Workshop International sur les nouvelles technologies sans fil st systèmes Wits 2014 INSA de Fès 9-10 avril 2014   | Fes             | 2014-04-09 |
| 11662 | Water and Energy in Sustainable Food Security organized   | Dennoun Saifaoui   | Renewable energy and technologies for the protection of water supplies. Conference Water and Energy in Sustainable Food Security organized by Arab academy in sciences | Beirut, Lebanon | 2012-12-04 |

| ID    | Intitulé   | Auteurs                            | Conférence   | Ville                        | Date       |
|-------|--|------------------------------------|--|------------------------------|------------|
| 11673 | La maison positive (Energies renouvelables),   | Dennoun Saifaoui                   | 8ième rencontre nationale d'Education et l'Environnement   | Tetouan Maroc                | 2012-06-17 |
| 11681 | Renewable energy and technologies for the protection of water supplies. Conference Water and Energy in Sustainable Food Security organized by Arab academy in sciences | Dennoun Saifaoui                   | Renewable energy and technologies for the protection of water supplies. Conference Water and Energy in Sustainable Food Security organized by Arab academy in sciences | Beirut, Lebanon              | 2012-12-04 |
| 11687 | Les énergies renouvelables au Maroc : Stratégie et perspectives  | Dennoun Saifaoui                   | Journée de la science 2012 Energie & Environnement-30ième anniversaire de la faculté des sciences Ain Chok   | casablanca                   | 2012-05-17 |
| 11692 | : L'Optimisation de l'eau d'irrigation par un système intelligent alimenté par l'énergie solaire Renewable Energies  | Dennoun Saifaoui                   | Technology and efficient management Conférence au workshop à l'université Al Akhawan université d'Ifrane Janvier   | Ifrane                       | 2012-12-12 |
| 11702 | Conférence on strategy of Morocco on RE  | Dennoun Saifaoui                   | CPV11  | Aix Leban france             | 2015-04-15 |
| 16085 | ] Simulation de la performance thermique d'une façade intelligente en béton et matériaux à changement de phase   | M. FARAJI, D. SAIFAOUI et A. MIMET | CONGRES INTERNATIONAL LA VILLE INTELLIGENTE ET L'EFFICACITE ENERGETIQUE  | Ecole des mines -Rabat 11 et | 2016-07-11 |

| ID    | Intitulé  | Auteurs  | Conférence   | Ville                        | Date       |
|-------|---|--|--|------------------------------|------------|
| 16087 | Conception et optimisation d'une plateforme photovoltaïque dans un Riad a Marrakech   | A. LILANE - D.Saifaoui                                 | CONGRES INTERNATIONAL LA VILLE INTELLIGENTE ET L'EFFICACITE ENERGETIQUE                                      | Ecole des mines -Rabat 11 et | 2016-07-11 |
| 16089 | ] Gestion des flux énergétiques dans un micro-réseau a base d'énergie photovoltaïque avec stockage et microturbine a gaz  | : M. ET-TAOUSSI, H. OUADI ET D. SAIFAOU                | CONGRES INTERNATIONAL LA VILLE INTELLIGENTE ET L'EFFICACITE ENERGETIQUE                                      | Ecole des mines -Rabat 11 et | 2016-07-11 |
| 16090 | Evaluation d'une centrale solaire photovoltaïque d'Assa zag raccordée au réseau électrique de distribution HTA étude des conditions climatiques sur les performances de la centrale | T. VIANNEY ET B. YASSINE - D.Saifaoui                  | CONGRES INTERNATIONAL LA VILLE INTELLIGENTE ET L'EFFICACITE ENERGETIQUE                                      | Ecole des mines -Rabat 11 et | 2016-07-11 |
| 22443 | Modélisation et simulation de l'endommagement des systèmes énergétique pour les énergies marines et éolienne « pales et tuyère »  | Dennoun Saifaoui                                       | Journée scientifique sur l'énergie éolienne Jeudi 25 mai 2017 Ecole Hassania des Travaux Publics, Casablanca | Casablanca                   | 2017-05-25 |
| 22445 | Hygrothermal and mechanical performance evaluation of glass-polyester composite for Renewable Marine Energies   | M. Nachtane *1.2, M.Tarfaoui1, D.Saifaoui2, K .Hilmi 3 | 13ème Congrès de Mécanique 11 - 14 Avril 2017 (Meknès, MAROC)  | (Meknès, MAROC)              | 2017-04-11 |
| 22463 | Energy harvesting from quasi-periodic vibrations  | ZakariaGhouli ;MustaphaHamdi1 ;FaouziLakrad;Mohamed    | 2 second edition of scientific english   | Casablanca                   | 2017-05-25 |

| ID    | Intitulé  | Auteurs  | Conférence  | Ville              | Date       |
|-------|---|--|---|--------------------|------------|
|       |   | Belhaq   |   |                    |            |
| 22464 | Energy harvesting in excited duffing harvester device under modulated delay amplitude | ZakariaGhouli ;MustaphaHamdi1 ;FaouziLakrad; Abderrahim Azouani and mohamed belhaq | The first international conference on civil Engineering and materials | Al Hoceima Morocco | 2017-05-11 |
| 22465 | Energy harvesting in a nolinear harvest using quasi-periodic vibrations               | ZakariaGhouli ;MustaphaHamdi1 ;FaouziLakrad;Mohamed Belhaq                         | Méthodes numériques at aide à la décision                             | Khouribga Maroc    | 2017-05-20 |
| 30883 | Study of a multi-source Energy System   | O.Lagdani ; M.Trihi  | AEEEMS  | El Jadida          | 2018-11-13 |
| 30884 | Assessment of offshore wind energy potential in Morocco                               | H.Laaouidi;M.Trihi   | AETEEMS   | El Jadida          | 2018-11-13 |

### \*Ouvrages

| ID    | Intitulé  | Auteurs  | Editeur  | Date |
|-------|---|--|--|------|
| 22437 | Matériaux composites pour les énergies marines renouvelables.   | -Nachtane, M., Tarfaoui, M., & Saifaoui, D. (2017                | . Éditions universitaires européennes.   | 2017 |
| 23252 | 1. Couches minces de Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) élaborées par voies chimiques Applications aux cellules solaires photovoltaïques en couches minces | Hervé Joël Tchognia Nkuissi, Bouchaib Hartiti, Jean-Marie Ndjaka | Noor Publishing Publié le 11.04.2017, ISBN-13 : 978-3-330-97577-4, ISBN-10: 3330975776 | 2017 |
| 23253 | 2. Étude et Caractérisation des   | Youssef Arba, Bouchaib Hartiti                                   | Noor Publishing Publié le  | 2017 |

| ID    | Intitulé  | Auteurs   | Editeur  | Date |
|-------|---|---|--|------|
|       | Matériaux CdS et CZTS en Couches Minces Par les plans d'expériences de Taguchi : Application Photovoltaïque     |   | 25.05.2017, ISBN-13: 978-3-330-96941-4, ISBN-10: 103330969415  |      |
| 23254 | 3. Synthèse du CuInS <sub>2</sub> en couche mince pour application photovoltaïque                               | : Mohamed Rafi, Bouchaib Hartiti  | Noor Publishing Publié le 2017-07-26, ISBN-13 : 978-3-330-85609-7, ISBN-10: 3330856092                                       | 2017 |
| 29643 | Book Chapters Prediction of Time Series of Photovoltaic Energy Production Using Artificial Neural Networks      | A. Elamim, B. Hartiti, A. Barhdadi, A. Haibaoui, A. Lfakir, P. Thevenin | Vol 2: Advanced Intelligent Systems Applied to Energy. Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) | 2018 |
| 29644 | Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin-Film Solar Cells. Handbook of Nanomaterials for Industrial Applications | Hervé Nkuissi Tchognia, Bouchaib Hartiti                                | edited by Chaudhery Mustansar Hussain, 07/2018   | 2018 |
| 29783 | Recent Trends in Applied Nonlinear Mechanics and Physics  | Editors: Belhaq, Mohamed  | Springer Proceedings in Physics  | 2018 |

### \*Chapitres d'ouvrage

| ID | Intitulé chapitre | Auteurs | Ouvrage | Editeur | Date |
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### \*Thèses en cours

| ID   | Nom Prénom             | Sujet   | Directeur de thèse           | Année de première inscription |
|------|------------------------|---|------------------------------|-------------------------------|
| 3549 | Ettami Said            | Modélisation et développement d'un aérogénérateur d'une éolienne                                      | SAIFAOUI DENNOUN<br>SAIFAOUI | 2016                          |
| 2288 | Oulahzan Mohamed       | Developpement d'un concenrateur de Fresnel pour le chauffage de l'eau pour les Hammams et dessalement | SAIFAOUI DENNOUN<br>SAIFAOUI | 2013                          |
| 3550 | Laaouidi Houda         | Etude de l'amélioration du rendement des parcs éoliens  | Trihi Mourad                 | 2016                          |
| 2289 | Lamnadi Mounia         | Etude des systemes multisources   | Trihi Mourad                 | 2012                          |
| 3551 | Chouiekh Mohamed       | Conception et réalisation d'un système PV muni d'une commande MPPT numérique                          | Abid Mohamed                 | 2016                          |
| 2291 | El Kebch Ali           | Etude de l'érosion des parois du Tokamak par le Monte Carlo   | SAIFAOUI DENNOUN<br>SAIFAOUI | 2011                          |
| 3552 | Abouabdillah Nisrine   | Modélisation et optimisation des fissures dans les biomatériaux utilisés en médecine dentaire         | SAIFAOUI DENNOUN<br>SAIFAOUI | 2016                          |
| 2293 | Houssam A              | developpement des suiveurs pour les concentrateurs solaires   | Najid Noureddine             | 2015                          |
| 2295 | Echarquaoui Sidi Salah | Etude de l'integration des Energies Renouvelables dans le reseau électrique marocain                  | SAIFAOUI DENNOUN<br>SAIFAOUI | 2014                          |
| 2346 | Sabrallah Aicha        | Stockage de H2 dans les hydrures  | Abid Mohamed                 | 2014                          |
| 2351 | Mzaouika Houman        | perovskit et magnéto calororie  | Abid Mohamed                 | 2014                          |
| 2353 | Ghouzali               | Processus education   | Abid Mohamed                 | 2013                          |
| 2357 | Hida Nahid             | Physique des vibrations dans les biomateriaux   | Abid Mohamed                 | 2014                          |

| ID   | Nom Prénom         | Sujet   | Directeur de thèse           | Année de première inscription |
|------|--------------------|---|------------------------------|-------------------------------|
| 2359 | Hoummada hassan    | Materiaux magnetiques   | Abid Mohamed                 | 2010                          |
| 2268 | Zakaria Ghouli     | Vibrations  | Belhaq Mohamed               | 2013                          |
| 2269 | Zakaria Ghouli     | Vibrations  | Belhaq Mohamed               | 2012                          |
| 2272 | Abdelbasit Chtouki | mecanique des vibrations  | Belhaq Mohamed               | 2012                          |
| 3542 | Hicham Boudounit   | Etude de l'endommagement des pales d'une éolienne                             | SAIFAOUI DENNOUN<br>SAIFAOUI | 2016                          |
| 2275 | Mourad Khadraoui   | mecanique des vibrations  | Belhaq Mohamed               | 2013                          |
| 3543 | Mohamed Lilane     | Optimisation de la consommation énergétique par une plateforme de dessalement | SAIFAOUI DENNOUN<br>SAIFAOUI | 2016                          |
| 2277 | Med Amine Aouadi   | Chtoukiibrations  | Belhaq Mohamed               | 2013                          |
| 3544 | Amine lilane       | Optimisation de la consommation énergétique par une plateforme de dessalement | SAIFAOUI DENNOUN<br>SAIFAOUI | 2016                          |
| 2279 | Boudounit Hicham   | Energie Eolienne et conception des pales                                      | SAIFAOUI DENNOUN<br>SAIFAOUI | 2015                          |
| 3545 | Baghdadi Sara      | Recupération de l'énergie des vibrations mécaniques                           | Lakrad Faouzi                | 2016                          |
| 2280 | Abdelbast Kerbal   | Fabrication et caracterisation d'une eolienne Darius                          | SAIFAOUI DENNOUN<br>SAIFAOUI | 2012                          |
| 3546 | Amry Youssef       | Compteur intelligent et efficacité énergétique                                | SAIFAOUI DENNOUN<br>SAIFAOUI | 2016                          |
| 2282 | Aitaleb Med        | Etude de la performance des CSP solaires                                      | SAIFAOUI DENNOUN             | 2012                          |

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|      |                     |  | SAIFAOUI                     |                               |
| 3547 | Addal Abdeslam      | Etude dosimétrique au sein des installations de traitement par radiothérapie     | Trihi Mourad                 | 2016                          |
| 2284 | El Maanouni Youssef | Etude du Shading dans le CSP de Fresnel  | SAIFAOUI DENNOUN<br>SAIFAOUI | 2012                          |
| 3548 | Jenkal hasna        | Modélisation et optimisation des commandes d'une éolienne avec stockage          | Boulezhar Abdelkader         | 2016                          |
| 2286 | Aaroussy Youssef    | Etude de la coogeneration de la chaleur a partir des unités du Jorf Al AsFAR OCP | SAIFAOUI DENNOUN<br>SAIFAOUI | 2013                          |

### \*Thèses soutenues

| ID   | Nom Prénom   | Sujet   | Directeur de thèse | Année de première inscription | Date de soutenance |
|------|--------------|---|--------------------|-------------------------------|--------------------|
| 2232 | Nabila Omari | Etude des Propriétés Magnétiques et électroniques des granulaires NiFeX (X=Al <sub>2</sub> O <sub>3</sub> , Cu)           | Abid Mohamed       | 2008                          | 2013-12-28         |
| 2234 | A. Mahdary   | Développement d'outils de controle et d'analyse pour l'optimisation et la gestion de l'énergie pour système multi-energie | Trihi Mourad       | 2008                          | 2013-10-03         |



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|------|-------------------|---|----------------------|-------------------------------|--------------------|
| 2245 | M.Zégoumou        | Potentiel Generer par un anneau A<br>Densité Anisotrope En terme<br>d'intégrales Elliptiques : Application<br>Aux Anneaux De Saturne                                      | Najid Noureddine     | 2008                          | 2013-02-23         |
| 2250 | M.Abouricha       | Etude Théorique et numerique de<br>l'effet thermique dans un laser à fibres<br>en cristaux photoniques pour différents<br>régimes de pompage dans une cavité<br>laser     | Boulezhar Abdelkader | 2008                          | 2015-09-19         |
| 4298 | Mouna Lamnadi     | Etude d'un système multi-sources<br>d'énergies :Modélisation et simulation<br>d'une chaine de production<br>photovoltaïque et éolienne raccordé<br>au réseau électrique . | Trihi Mourad         | 2012                          | 2017-01-14         |
| 2255 | A. El Amiri       | . Calculs ab initio propriétés<br>électroniques et magétiques des Semi-<br>conducteurs magnétiques dilués à bas<br>de Zno   | Abid Mohamed         | 2008                          | 2014-12-27         |
| 2259 | Amine Bichri      | CONTRIBUTION AU CONTRÔLE DES<br>VIBRATIONS MECANIQUES AU<br>VOISINAGE DES RESONANCES  | Belhaq Mohamed       | 2008                          | 2013-10-18         |
| 2260 | Lahcen Lokni      | Contribution à l'étude de la réduction<br>des vibrations dans les systèmes<br>mécaniques  | Belhaq Mohamed       | 2008                          | 2013-11-15         |
| 2261 | Mhammed El Gadari | Etude numérique et expérimentale du   | Belhaq Mohamed       | 2008                          | 2014-10-17         |

| ID   | Nom Prénom        | Sujet   | Directeur de thèse           | Année de première inscription | Date de soutenance |
|------|-------------------|---|------------------------------|-------------------------------|--------------------|
|      |                   | comportement des joints à lèvres  |                              |                               |                    |
| 2262 | Ilham Kirrou      | Contribution au contrôle des vibrations non linéaires dans les micro-nano-structures: Application au microscope à force atomique  | Belhaq Mohamed               | 2008                          | 2014-09-12         |
| 3178 | Essakhi abdelaziz | Contribution à la caractérisation et la simulation de biomatériaux utilisés en médecine dentaire"   | Boulezhar Abdelkader         | 2008                          | 2016-01-11         |
| 2264 | Dlimi Nourredine  | Transport anormal dans le tokamak et l'érosion des parois   | SAIFAOUI DENNOUN<br>SAIFAOUI | 2008                          | 2014-01-15         |
| 3179 | Ali EL KEBCH      | Modélisation et simulation de l'érosion des parois du Tokamak : Application aux matériaux des parois des réacteurs de fusion nucléaire" Tungstène, Carbone et Béryllium | SAIFAOUI DENNOUN<br>SAIFAOUI | 2009                          | 2016-07-09         |
| 3180 | Mouna Lamnadi     | Etude d'un système multi-sources d'énergies :Modélisation et simulation d'une chaine de production photovoltaïque et éolienne raccordée au réseau électrique            | Boulezhar Abdelkader         | 2010                          | 2016-01-14         |
| 3203 | Nawal Rochdi      | Modélisation de laser à fibre impulsional et étude thermo-optique dans les fibres à cristaux photoniques dans une cavité laser  | Boulezhar Abdelkader         | 2009                          | 2016-05-07         |
|      |                   |   |                              |                               |                    |

| ID   | Nom Prénom                  | Sujet  | Directeur de thèse | Année de première inscription | Date de soutenance |
|------|-----------------------------|--|--------------------|-------------------------------|--------------------|
| 4535 | Arba Youssef                | Etude et caractérisation des matériaux CdSe CZTS en couches minces ....  | HARTITI Bouchaib   | 2011                          | 2016-12-24         |
| 4536 | Samira Elfarrass            | Optimisation des paramètres de dépôt des couches minces de sulfure d'Indium par l'utilisation de l'expérimentation taguchi ...                     | HARTITI Bouchaib   | 2011                          | 2017-07-08         |
| 4537 | Mr Thierno Sall             | Elaboration et Caractérisation des couches minces de trisulfure d'Indium .....   | HARTITI Bouchaib   | 2011                          | 2015-05-23         |
| 4538 | TCHOGNIA Nkuissi Hervé joel | Optimisation du processus de dépôt des couches minces de Cu <sub>2</sub> ZnSnS <sub>4</sub> .....  | HARTITI Bouchaib   | 2011                          | 2016-10-12         |
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