

Les publications scientifiques dans le laboratoire depuis sa création en 2011 sont les suivantes :

[1]Titre de l'article 1: Effect of nonlinear dissipation on the basin boundaries of a driven two-well Modified Rayleigh-Duffing oscillator

Auteurs: C. H. Miwadinou, **A. V. Monwanou** and J. B. Chabi Orou

Journal: International journal of Bifurcations and Chaos, Vol.25, No.2 (2015)110024 (14 pages)

DOI ou Site Web de l'article: <https://www.worldscientific.com/doi/10.1142/S0218127415500248>

[2] Titre de l'article 2: Linear stability analysis of fluid flow between two parallel porous stationary plates with small suction and injection

Auteurs: L. A. Hinvi, **A. V. Monwanou** and J. B. Chabi Orou

Journal: The African Review of Physics(2014) 9 :0016.

DOI ou Site Web de l'article: <http://lamp.ictp.it/index.php/aphysrev/article/view/876/358>

[3] Titre de l'article 3: Analysis of multiresonance and chaotic behavior of the polarization in materials modeled by a Duffing equation with multifrequency excitations

Auteurs: Ainamon, C. H. Miwadinou, **A. V. Monwanou** and J. B. Chabi Orou

Journal: Applied Physics Research ; Vol.6, No.6 ; 2014

DOI ou Site Web de l'article: <http://www.ccsenet.org/journal/index.php/apr/article/view/40965>

[4] Titre de l'article 4: Active Control of the Parametric Resonance in the Modified Rayleigh-Duffing oscillator

Auteurs: C. H. Miwadinou, **A. V. Monwanou** and J. B. Chabi Orou

Journal: The African Review of Physics (2014) 9 :0030

DOI ou Site Web de l'article: <http://lamp.ictp.it/index.php/aphysrev/article/view/914/373>

[5] Titre de l'article 5: Recherche et étude de la stabilité du cycle limite pour l'oscillateur de Rayleigh

Auteurs: C. H. Miwadinou, **A. V. Monwanou** and J. B. Chabi Orou

Journal: J. Rech. Sci. Univ. Lomé, 2014, Série E, 16(2) : 227-235

DOI ou Site Web de l'article: <https://www.ajol.info/index.php/jrsul/article/view/120015>

[6] Titre de l'article 6: Etude de l'Oscillateur de Van der Pol généralisé par la method du groupe de rénormalisation

Auteurs: L. A. Hinvi, **A. V. Monwanou** and J. B. Chabi Orou

Journal: J. Rech. Sci.Univ. Lomé(Togo), 2014, Série E, 16(2): 611-618

DOI ou Site Web de l'article: <https://www.ajol.info/index.php/jrsul/article/view/120020>

[7] Titre de l'article 7: A Study of the forced Van der Pol generalized oscillator with renormalization group method

Auteurs: L. A. Hinvi, **A. V. Monwanou** and J. B. Chabi Orou

Journal: Applied Physics Research ; Vol.5, No.6 ; 2013

DOI ou Site Web de l'article: <http://www.ccsenet.org/journal/index.php/apr/article/view/29157>

[8] Titre de l'article 8: Testing some $f(R, \tau)$ gravity models from energy conditions

Auteurs: F. G. Alvarenga, M. J. S. Houndjo, **A. V. Monwanou** and Jean B. Chabi Orou

Journal: Journal of Modern Physics(JMP) 4, 130-139 (2013).

DOI ou Site Web de l'article: <https://www.scirp.org/journal/paperinformation.aspx?paperid=27253>

[9] Titre de l'article 9: Stability Analysis of Boundary Layer in Poiseuille Flow through a Modified Orr-Sommerfeld'Equation

Auteurs: **A. V. Monwanou**, C. H. Miwadinou and J. B. Chabi

Journal: Applied Physics Research ; Vol. 4, No. 4 ; 2012

DOI ou Site Web de l'article: <http://www.ccsenet.org/journal/index.php/apr/article/view/21650>

[10] Titre de l'article 10: The inviscid instability in an electrically conducting fluid affected by a parallel magnetic field

Auteurs: A. V. Monwanou and J. B. Chabi Orou

Journal: The African Review of Physics (2012)7 : 0044

DOI ou Site Web de l'article: <http://lamp.ictp.it/index.php/aphysrev/article/view/610/264>

[11] Titre de l'article 11: Quantum effects from particle production on background evolution and Cardy-Verlinde formula in $f(R)$ gravity

Auteurs: M. J. S. Houndjo, A. V. Monwanou and J. B. Chabi Orou

Journal: International Journal of Modern Physics D (IJMPD), Vol. 20, No. 13, 2449-2469 (2011)

DOI ou Site Web de l'article: <https://www.worldscientific.com/doi/10.1142/S0218271811020457>

[12] Titre de l'article 12: Modeling and generation of electrodynamic modes of a self-sustaining active sensor with Josephson junction

Auteurs: N. G. Koudafokê, C. H. Miwadinou, A. V. Monwanou and J. B. Chabi Orou

Journal: International Journal of Dynamics and Control (2019) <https://doi.org/10.1007/s40435-019-00595-w>

DOI ou Site Web de l'article: <https://link.springer.com/article/10.1007/s40435-019-00595-w>

[13] Titre de l'article 13: Effect of helical force on the stationary convection in binary ferrofluid

Auteurs: P. Hounsou, A. V. Monwanou, C. H. Miwadinou and J. B. Chabi Orou

Journal: Indian Journal of Physics (2019), <https://doi.org/10.1007/s12648-019-01605-5>

DOI ou Site Web de l'article: <https://link.springer.com/article/10.1007/s12648-019-01605-5>

[14] Titre de l'article 14: Stability and Chaotic dynamic of forced ϕ 8 generalized Liénard systems

Auteurs: Clement Hodévèwan Miwadinou , Adjimon Vincent Monwanou, Laurent

Amoussou Hinvi, and Jean Bio Chabi Orou

Journal: Pramana–Journal of Physics (2019) 93: 80

DOI ou Site Web de l'article: <https://link.springer.com/article/10.1007/s12043-019-1839-7>

[15] Titre de l'article 15: Effects of passive hydrodynamics force on harmonic and chaotic oscillations in nonlinear chemical dynamics

Auteurs: D. L. Olabode, C. H. Miwadinou, **V. A. Monwanou** and J. B. Chabi Orou

Journal: Physica D 386–387 (2019) 49–59

DOI ou Site Web de l'article:

<https://www.sciencedirect.com/science/article/abs/pii/S0167278918300733>

[16] Titre de l'article 16: Chaotic vibrations of nonlinear viscoelastic plate with fractional derivative model and subjected to parametric and external excitations

Auteurs: P. R. Nwagoum Tuwa, C. H. Miwadinou, **A.V. Monwanou**, J. B. Chabi Orou and P. Wofo

Journal: Mechanics Research Communications 97 (2019) 8–15

DOI ou Site Web de l'article:

<https://www.sciencedirect.com/science/article/abs/pii/S0093641318300983>

[17] Titre de l'article 17: Chaotic Motions in Forced Mixed Rayleigh–Liénard Oscillator with External and Parametric Periodic-Excitations

Auteurs: C. H. Miwadinou, **A. V. Monwanou**, A. A. Koukpedji, Y. J. F. Kpomahou and J. B. Chabi Orou

Journal: International Journal of Bifurcation and Chaos, Vol. 28, No. 3 (2018) 1830005 (16 pages)

DOI ou Site Web de l'article: <https://www.worldscientific.com/doi/10.1142/S0218127418300057>

[18] Titre de l'article 18: Effect of amplitude modulated signal on chaotic motions in a mixed Rayleigh–Liénard oscillator

Auteurs: C. H. Miwadinou, **A. V. Monwanou**, L. A. Hinvi and J. B. Chabi Orou

Journal: Chaos, Solitons and Fractals 113 (2018) 89–101

DOI ou Site Web de l'article:

<https://www.sciencedirect.com/science/article/abs/pii/S0960077918302868>

[19] Titre de l'article 19: Horseshoes chaos and its passive control in dissipative nonlinear chemical Dynamics

Auteurs: D. L. Olabode, C. H. Miwadinou, **A. V. Monwanou** and J. B. Chabi Orou

Journal: Physica Scripta 93 (2018) 085203 (12pp) <https://doi.org/10.1088/1402-4896/aacef0>

DOI ou Site Web de l'article: <https://iopscience.iop.org/article/10.1088/1402-4896/aacef0>

[20] Titre de l'article 20: Modeling nonlinear dissipative chemical dynamics by a forced modified Van der Pol-Duffing oscillator with asymmetric potential: Chaotic behaviors predictions

Auteurs: C. H. Miwadinou, **A. V. Monwanou**, J. Yovogan, L. A. Hinvi, P. R. Nwagoum Tuwa and J. B. Chabi Orou

Journal: Chinese Journal of Physics 56 (2018) 1089–1104

DOI ou Site Web de l'article:

<https://www.sciencedirect.com/science/article/abs/pii/S0577907318300595>

[21] Titre de l'article 21: Linear stability analysis of Poiseuille flow in porous medium with small suction and injection

Auteurs: A. Hinvi, **A. V. Monwanou**, C. H. Miwadinou and J. B. Chabi Orou

Journal: The African Review of Physics (2018) 13 :0020

DOI ou Site Web de l'article: <http://lamp.ictp.it/index.php/aphysrev/article/view/1616/587>

[22] Titre de l'article 22: Hysteresis, Quasiperiodicity and Chaoticity in a Nonlinear Dissipative Hybrid Oscillator

Auteurs: **A. V. Monwanou**, C. H. Miwadinou, C. Ainamon and J. B. Chabi Orou

Journal: International Journal of Basic and Applied Sciences, 7 (1) (2018) 1-7

DOI ou Site Web de l'article: <https://www.sciencepubco.com/index.php/ijbas/article/view/8633>

[23] Titre de l'article 23: Nonlinear dynamics of system oscillations modeled by a forced Van der Pol generalized oscillator

Auteurs: A. V. Monwanou, L. A. Hinvi, C. H. Miwadinou and J. B. Chabi Orou

Journal: International Journal of Engineering and Applied Sciences, Volume-4, Issue-8, August 2017

DOI ou Site Web de l'article: https://www.ijeas.org/download_data/IJEAS0408011.pdf

[24] Titre de l'article 24: A New Approach for the Stability Analysis in Hydromagnetic Couette Flow

Auteurs: Adjimon Vincent Monwanou, Amoussou Laurent Hinvi, Hodévèwan Clément Miwadinou and Jean Bio Chabi Orou

Journal: Journal of Applied Mathematics and Physics, 2017, 5, 1503-1514

DOI ou Site Web de l'article: <https://www.scirp.org/journal/paperinformation.aspx?paperid=78028>

[25] Titre de l'article 25: Hysteresis, Resonant Oscillations and Bifurcation Mode of a System Modeled by a Forced Modified Van der Pol-Duffing Oscillator

Auteurs: Adjimon Vincent Monwanou, Laurent Amoussou Hinvi, Clément Hodévèwan Miwadinou and Jean Bio Chabi Orou

Journal: American Journal of Engineering and Applied Sciences 2017, 10 (4): 806.824

DOI ou Site Web de l'article: <https://thescipub.com/abstract/10.3844/ajeassp.2017.806.824>

[26] Titre de l'article 26: Nonlinear dynamics of a ϕ 6 – modified Duffing oscillator: resonant oscillations and transition to chaos

Auteurs: C. H. Miwadinou · L. A. Hinvi, A. V. Monwanou and J. B. Chabi Orou

Journal: Nonlinear Dynamics, (2017) 88:97–113

DOI ou Site Web de l'article: <https://link.springer.com/article/10.1007/s11071-016-3232-0>

[27] Titre de l'article 27: Melnikov Chaos in a Modified Rayleigh–Duffing Oscillator with ϕ 6 Potential

Auteurs: C. H. Miwadinou, **A. V. Monwanou**, L. A. Hinvi , A. A. Koukpededji , C. Ainamon and J. B. Chabi Orou

Journal: International Journal of Bifurcation and Chaos, Vol. 26, No. 5 (2016) 1650085 (13 pages)

DOI ou Site Web de l'article: <https://www.worldscientific.com/doi/10.1142/S0218127416500851>

[28] Titre de l'article 28: *Analysis of a fractal Josephson with unharmonic current-phase relation*

Auteurs: K. Sifeu, G.F. Kuate, V. Kamdoum Tamba, A.V. Monwanou, J.B. Chabi-Orou

Journal: Journal of Superconductivity and Novel Magnetism (2018)

DOI ou Site Web de l'article: <https://doi.org/10.1007/s10948-018-4967-2>

[29] Titre de l'article 29: Analysis and FPGA implementation of an autonomous Josephson junction snap oscillator

Auteurs: Sifeu Takougang Kingni, Karthikeyan Rajagopal, Victor Kamdoum Tamba, Cyrille Ainamon, and Jean Bio Chabi Orou

Journal: THE EUROPEAN PHYSICAL JOURNAL B

DOI ou Site Web de l'article:

[30] Titre de l'article 30: Dynamics, Circuitry Implementation and Control of an Autonomous Helmholtz Jerk Oscillator

Auteurs: Cyrille Ainamon · Sifeu Takougang Kingni · Victor Kamdoum Tamba · Jean Bio Chabi Orou and Paul Wofo

Journal: Journal of Control, Automation and Electrical Systems

DOI ou Site Web de l'article:

[31] Titre de l'article 31: *Regular and Chaotic Oscillations in a Modified Rayleigh-Liénard System under Parametric Excitation*

Auteurs: Y. J. E. Kpomahou, R. G. Agbokpanzo, L. A. Hinvi

Journal: *Int. J. Adv. Appl. Math. And Mech.*

DOI ou Site Web de l'article:

[32] Titre de l'article 32: *Mathematical modelling and parametric resonances of a nonlinear RLC series circuit*

Auteurs: Kpomahou, Y.J.F., Miwadinou, C.H. and Hinvi, L.A.

Journal: Int. J. Nonlinear Dynamics and Control (2018), Vol. 1, No. 2

DOI ou Site Web de l'article:

[33] Titre de l'article 33: *Hydromagnetic instability of rotating pipe flow*

Auteurs: H. Segning Nkengmene, V. A. Monwanou, L. A. Hinvi, J. B. Chabi Orou

Journal: International Journal of Advances in Applied Mathematics and Mechanics, 7(3) (2020) 22 – 30 (ISSN: 2347-2529)

DOI ou Site Web de l'article:

[34] Titre de l'article 34: *Effect of anisotropy in permeability on thermal convection of viscoelastic fluids in rotating porous*

Auteurs: Julien Yovogan, Clément H. Miwadinou, Edmond V. Claude & Gérard Degan

Journal: Australian Journal of Mechanical Engineering (2018)

DOI ou Site Web de l'article: