

## **PUBLICATIONS INTERNATIONALES.**

- [1] D. Batache, T. Kanit, W. Kaddouri, R. Bensaada, **T. Outtas**, An iterative analytical model for heterogeneous materials homogenization, **Composites Part B: Engineering, Volume 142, 1 June 2018, Pages 56-67.**
- [2] Fateh Ferroudji1 , Cherif Khelifi, **Toufik Outtas** , Structural Dynamics Analysis of 3-D Bi-axial Sun-Tracking System Structure Determined by Numerical Modal Analysis, **Journal of Solar Energy Engineering 2018.**
- [3] Saïda Ghoggali, **Toufik Outtas**, Saber Latrèche, 3D Finite Elements Modeling of the Interfacial Stresses Bone/Dental Implant - Effects of the Geometric Parameters, **Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 33, pp32-44, July 2017.**
- [4] A. Benhizia **T. Outtas** T. Kanit A. Imad, Optimal design and non-linear computation of mechanical behavior of sphere reinforced composites, **Composites Part B: Engineering, Volume 126, 1 October 2017, Pages 38-48**
- [5] H. Bennaceur, S. Ramtani, and **T. Outtas**, Elastic Buckling at the Scale of a Bone Trabecula: The Influence of the Boundary Conditions, **pages 323-330, Springer International Publishing 2016.**
- [6] S. Ramtani, H. Bennaceur and **T. Outtas**, Elastic bone-column buckling including bone density gradient effect within the context of adaptive elasticity, **IRBM, Volume 36, Issue 5, October 2015, Pages 267-277.**  
<http://authors.elsevier.com/a/1RvDh6zRgZRzDf>
- [7] A. Benhizia, T. Kanit, **T. Outtas**, S. Madani and A. Imad, Computation of effective behavior of isotropic transverse composite in nonlinear problems. **Mechanics Research Communications 59 (2014) 6-13.**
- [8] Salah Ramtani, Hamza Bennaceur and **Toufik Outtas**, A simplified theory of adaptive bone elastic beam buckling, **Advances in Biomechanics and Applications, Vol. 1, No. 3 (2014)**  
<http://www.techno-press.org/?page=container&volumeno=1/3&journal=aba>
- [9] FATEH FERROUDJI, **TOUFIK OUTTAS**, CHÉRIF KHÉLIFI AND RAFIK MANSOURI, Large-scale Dual Axis Sun Tracking System - Modeling and Static Analysis by FEM, **IJMME-IJENS Vol:14 No:04, August 2014.**
- [10] Fateh. Ferroudji, **Toufik. Ouattas** and Chérif. Khélifi, Design, Modeling and Finite Element Static Analysis of a New Two Axis Solar Tracker Using SolidWorks/COSMOSWorks. **Applied Mechanics and Materials Vols. 446-447 (2014) pp 738-743.**  
[doi:10.4028/www.scientific.net/AMM.446-447.738](https://doi.org/10.4028/www.scientific.net/AMM.446-447.738)
- [11] Mesmoudi, K., Zitouni, B., **Outtas, T.** and Bournet, P.E. (2013). Numerical Simulation of The Airflow and Temperature Distribution in a Closed Empty Venlo Glasshouse Under Hot and Arid Climate. **Acta Hort. 1008, 235-240.**  
<http://dx.doi.org/10.17660/ActaHortic.2013.1008.31>

- [12] **TOUFIK OUTTAS**, Salah Madani, & Lahbib Adami, Free surface nanopatterning with buried hexagonal dislocations array. Simulation of anisotropic elastic fields, **Thin solid films**, Vol. 517, N° 1, (2008), 275-277.
- [13] Salah Madani, **TOUFIK OUTTAS** & Lahbib Adami, Numerical simulations of the anisotropic elastic field of a screw dislocation networks in twist boundaries, **Thin solid films**, Vol. 517, N° 1, (2008), 262-264.
- [14] Salah Madani, **TOUFIK OUTTAS** & Lahbib Adami, Numerical simulations of anisotropic elastic field of a GaAs/GaAs twist boundary, **Phys. Stat. Sol. (a)**, 204, No. 9, 3126-3131 (2007).
- [15] **TOUFIK OUTTAS**, Salah Madani, Lahbib Adami, Anisotropic elastic fields generated at free surface nanopatterning with buried dislocations array, **Boletín de la Sociedad Española de Cerámica y Vidrio**, Vol. 2, (2006), ISBN 84-8158-323-5, pages 1143-1146
- [16] Salah Madani, **TOUFIK OUTTAS**, Lahbib Adami, Numerical simulation of the energy density of an GaAs/GaAs anisotropic twist boundary, **Boletín de la Sociedad Española de Cerámica y Vidrio**, Vol. 2, (2006), ISBN 84-8158-323-5, pages 1147-1150
- [17] Salah Madani, Mourad Brioua, **TOUFIK OUTTAS**, Lahbib Adami, Roland Bonnet, A thin two-phase foils deformed by an interfacial dislocation in anisotropic elasticity, **Boletín de la Sociedad Española de Cerámica y Vidrio**, ISSN 0366-3175, Vol. 44, N° 2, (2005), pages 127-129
- [18] **TOUFIK OUTTAS**, R. Bonnet, Salah Madani, Lahbib Adami, Campo interfacial de tensiones generadas por un red biperiódica hexagonal de dislocaciones en un bicristal delgado de InAs / (III) Ga As, **Boletín de la Sociedad Española de Cerámica y Vidrio**, ISSN 0366-3175, Vol. 43, N° 2, (2004), pages. 497-500
- [19] **T. OUTTAS**, L. ADAMI and R. BONNET, A biperiodic interfacial pattern of misfit dislocation interacting with both free surfaces of a thin bicrystalline sandwich, **Solid State Sciences**, 4 (2002) 161-166.
- [20] **T. OUTTAS**, L. ADAMI, A. DERARDJA, S. MADANI and R. BONNET, Anisotropic Elastic Field of a Thin bicrystal Deformed by a biperiodic Network of Misfit Dislocations, **Phys. Stat. Sol. (a)**, 188, No 3, 1041-1045 (2001).
- [21] R. BONNET, **T. OUTTAS**, et L. ADAMI, un bilame mince déformé par un réseau hexagonale de dislocations de Misfit. I. Théorie en élasticité anisotrope, **Alg. J. Adv. Mat.** 3 (1999) 63-67.