

ΑΧΙΛΛΕΑΣ ΒΑΪΡΗΣ

Βιογραφικό Σημείωμα

ΣΠΟΥΔΕΣ

♦ Δεκέμβριος 1997

Διδακτορικό Δίπλωμα

Τίτλος εργασίας : “Υψηλόσυχνος παλινδρομική συγκόλληση με τριβή”
“High frequency linear friction welding”

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Γνωστικό αντικείμενο «Στοιχεία Μηχανών – Κατασκευαστικές Τεχνολογίες»

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ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΗΜΟΣΙΕΥΣΕΙΣ**ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΜΕ ΣΥΣΤΗΜΑ ΚΡΙΤΩΝ**

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ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΔΗΜΟΣΙΕΥΣΕΙΣ

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ΑΝΑΓΝΩΡΙΣΗ ΕΠΙΣΤΗΜΟΝΙΚΟΥ ΕΡΓΟΥ

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Ανάλυση: <https://scholar.google.gr/citations?user=w5Yq4eAAAAAJ&hl=en>

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- Li, W., Yang, X., Vairis, A., “Solid State Welding”, Science Press, 2017, China (in English)

ΚΕΦΑΛΑΙΑ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΒΙΒΛΙΑ

- Wang, X., Li, W.Y., Ma, T., Vairis, A., (2019) ‘Linear friction welding’, in Vora, J., Badheka, V., (eds.)” Advances in welding technologies for process development”. New York, CRC Press, pp.191-209.

ΔΙΠΛΩΜΑΤΑ ΕΥΡΕΣΙΤΕΧΝΙΑΣ

- Μητρόπουλος, Α., Βαΐρης, Α., Στεφανόπουλος, Κ., “Εξάρτημα υδραργυρικού ποροσιμέτρου”, Αρ. Διπλώματος Ευρεσιτεχνίας 1003538, 1 Μαρτίου 2001
- Βαΐρης, Α., Καλυβιανάκης, Α., Timmons, W., Πατερομιχελάκης, Ν., “Συσκευή Ελέγχου Άσκησης Χορού”, Αρ. Διπλώματος Ευρεσιτεχνίας 20090100586, 26 Οκτωβρίου 2009
- Βαΐρης, Α., “Έλεγχος κατεργασιών συγκόλλησης με τριβή”, Αρ.Αίτησης Διπλώματος Ευρεσιτεχνίας 201600931, 11 Απριλίου 2016
- Βιδάκης, Ν., Βαΐρης, Α., Λόντος, Α., Γραμματικάκης, Ι., Πετούσης, Μ., Μανιαδή, Α., Αράρης, Ε., “Εξυπνο εργαλείο γλυπτικής», Αρ. Διπλώματος Ευρεσιτεχνίας 1009101, 11 Απριλίου 2016

ΕΡΕΥΝΗΤΙΚΗ ΕΜΠΕΙΡΙΑ

- ◆ “Redesigning Mobility Aid to Function in Challenging Environments and Limited-Resource Settings”

2020 - 2022

Grand Challenges Canada, Canada

State University of New York Korea

2^{ος} Επιστημονικός υπεύθυνος (co Principal Investigator)

- ◆ “Elaboration and industrial development of high-precision shaping coordinated technologies and superficial hardening of responsible details from Al-alloys with heightened constructional energy efficiency”

2015

Κοινό ερευνητικό πρόγραμμα μεταξύ Ufa State Aviation Technical University και εταιρείας κατασκευής κινητήρων αεροπλάνων JSC “UMPO”, Ρωσική Ομοσπονδία

Ερευνητής

- ◆ “Διαχείριση των κλαδοκάθαρων του δήμου Ηλιούπολης με την τεχνολογία της κομποστοποίησης”

ΤΕΙ Κρήτης

Επιστημονικός συνεργάτης

- ◆ “Development of a novel shoulder dislocation lesion repair device – Shoulder mechanics - 2874”

Μεταδιδακτορικός υπότροφος : Δρ. Μάρκος Πετούσης

ΕΝΙΣΧΥΣΗ ΜΕΤΑΔΙΔΑΚΤΟΡΩΝ ΕΡΕΥΝΗΤΩΝ

ΤΕΙ Κρήτης

Επιστημονικός υπεύθυνος

- ◆ “NANO-ΣΚΑΪ νανο-σύνθετες κοίλες ανθρακοϊνες για διαχωρισμούς αερίων & παραγωγή υδρογόνου”

ΑΡΧΙΜΗΔΗΣ ΙΙΙ / 2012-14

ΤΕΙ Κρήτης

Επιστημονικός συνεργάτης

- ◆ “NANO-STRENGTH Ανάπτυξη Νανοδομημένων Υλικών με Νανοσωλήνες Άνθρακα για Χρήση σε Εφαρμογές Υψηλής Αντοχής ”

Budget: 100.000 €

ΑΡΧΙΜΗΔΗΣ ΙΙΙ / 2012-14

ΤΕΙ Κρήτης

Επιστημονικός υπεύθυνος

- ◆ “NANOCAPILLARY”

ΘΑΛΗΣ / 2012-24

ΤΕΙ Κρήτης

Επιστημονικός συνεργάτης

- ◆ “Creation of technologies and industrial production of knots and vanes gas turbine engine with alleviated high-impact construction for new generation engines”

2011 – 2012

Κοινό ερευνητικό πρόγραμμα μεταξύ Ufa State Aviation Technical University και εταιρείας κατασκευής κινητήρων αεροπλάνων JSC “UMPO”, Ρωσική Ομοσπονδία

Ερευνητής

- ◆ “REG CON - Support action for innovation driven clusters in construction. Regional approaches, multi-stakeholder engagement and cross regional co-operation”

FP7-REGIONS-2007-1

2008 – 2010

Κέντρο Τεχνολογικής Έρευνας, ΤΕΙ Κρήτης

Επιστημονικός συνεργάτης

- ◆ “Ανάπτυξη υμενίων ZnO για χρήσεις αισθητήρων οξειδωτικών αερίων”

Budget: 100.000 €

ΑΡΧΙΜΗΔΗΣ 2004

ΤΕΙ Κρήτης

Επιστημονικός υπεύθυνος

- ◆ “Επικαλύψεις θερμικού ψεκασμού για την αντιμετώπιση φθορών μηχανολογικών εξαρτημάτων στην Ελληνική βιομηχανία. Εναλλακτικές τεχνικές”

97 ΕΚΒΑΝ 2-126

Εθνικό Μετσόβιο Πολυτεχνείο

Επιστημονικός συνεργάτης

- ◆ “ROBOWELDER - EE 552”

ΠΑΒΕ 1998

Ινστιτούτο Φυσικοχημείας, ΕΚΕΦΕ «Δημόκριτος»

Επιστημονικός συνεργάτης

- ◆ “High frequency linear friction welding investigation”

Human Capital Mobility Programme 1992

Πανεπιστήμιο του Bristol

Research Fellow - Ερευνητής

ΕΠΙΣΤΗΜΟΝΙΚΟ ΕΡΓΟ



ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

Αρχισυντάκτης (Editor-in-Chief) του διεθνούς Επιστημονικού περιοδικού **Welding International** που εκδίδεται από τον οίκο Taylor & Francis. (ISSN: 0950-7116)

Μέλος της συντακτικής ομάδας (editorial board) του διεθνούς Επιστημονικού περιοδικού Materials Technologies Design. (ISSN: 2466-4677)

Μέλος της συντακτικής ομάδας (editorial board) του διεθνούς Επιστημονικού περιοδικού Journal of Engineering Science and Technology Review. (ISSN:1791-2377)

Μέλος της συντακτικής ομάδας (editorial board) του διεθνούς Επιστημονικού περιοδικού Applied Engineering Letters. (ISSN: 2466-4677)

Guest editor του διεθνούς Επιστημονικού περιοδικού Journal of Engineering Science and Technology Review για το ειδικό τεύχος με τα πρακτικά του συνεδρίου “Simulation of manufacturing technologies - 2014” που έγινε στην Ufa στις 23-25 Ιουνίου 2014.

Guest editor του διεθνούς Επιστημονικού περιοδικού Advances in Materials Science and Engineering για το ειδικό τεύχος “Advances in Friction Welding” (Οκτώβριος 2013-Μάρτιος 2014).

Guest editor του διεθνούς Επιστημονικού περιοδικού Journal of Engineering Science and Technology Review για το ειδικό τεύχος με τα πρακτικά του συνεδρίου “Simulation of manufacturing technologies - 2012” που έγινε στην Ufa στις 10-13 Απριλίου 2012.

Κριτής (reviewer) για το επιστημονικά περιοδικά

- *Acta Materialia* (IF: 5.058)
- *Advanced Engineering Materials* (IF:2.319)
- *Advances in Manufacturing*
- *Advances in Materials Science and Engineering* (IF: 0.897)
- *CIRP Journal of Manufacturing Science and Technology* (IF: 1.732)
- *Computational Materials Science* (IF: 1.574)
- *Construction and Building Materials* (IF:3.169)
- *DYNA*
- *International Journal of Advanced Manufacturing Technology* (IF: 1.779)
- *International Journal of Computer Assisted Radiology and Surgery* (IF:2.155)
- *International Journal of Material Forming* (1.750)
- *International Journal of Modelling, Identification and Control*
- *International Journal of Thermal Sciences* (IF:2.769)
- *Journal of Adhesion Science and Technology* (IF:1.153)
- *Journal of Alloys and Compounds* (IF:3.014)
- *Journal of Engineering Science and Technology Review*
- *Journal of Materials Engineering and Performance* (IF: 1.094)

- *Journal of Materials Science & Technology* (IF: 2.267)
- *Journal of Materials Processing Technology* (IF:3.147)
- *Materials and Design* (IF: 3.501)
- *Materials Characterization* (IF: 2.383)
- *Materials Letters* (IF: 2.437)
- *Mechanism and Machine Theory* (IF: 1.689)
- *Metallurgical and Materials Transactions A* (IF: 1.749)
- *Metals* (IF: 1.574)
- *North American Manufacturing Research Institution of SME (NAMRI/SME)*
- *Qscience Connect*
- *Steel Research International* (IF: 1.021)
- *Surface and Coatings Technology* (IF: 2.139)
- *The Journal of Manufacturing Processes* (IF:1.771)
- *The Knee* (IF: 1.446)
- *Welding in the World* (IF: 1.278)



ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΣΥΝΕΔΡΙΑ

◆ 26 Μαΐου 2022

Μέλος Διεθνούς Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “10th International Scientific Conference IRMES 2022 - “Machine design in the context of Industry 4.0 – Intelligent products””, Βελιγράδι, Σερβία.

◆ 10-12 Απριλίου 2017

Μέλος Διεθνούς Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “17th International Conference on Sheet Metal – SheMet 2017”, Palermo, 10-12 Απριλίου 2017.

◆ 22-23 Σεπτεμβρίου 2015

Μέλος Οργανωτικής Επιτροπής Επιστημονικού Συνεδρίου “Simulation of manufacturing technologies - 2015”, Ufa, Ρωσική Ομοσπονδία

◆ 27-29 Αυγούστου 2015

Μέλος Διεθνούς Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “9th International Conference “New Horizons in Industry, Business and Education” (NHIBE 2015)”, Σκιάθος, 27-29 Αυγούστου 2015.

◆ 23-25 Ιουνίου 2014

Μέλος Οργανωτικής Επιτροπής Επιστημονικού Συνεδρίου “Simulation of manufacturing technologies - 2014”, Ufa, Ρωσική Ομοσπονδία

◆ Απρίλιος 2013

Κριτής (reviewer) για το Επιστημονικό Συνέδριο *American Society of Mechanical Engineers-International Mechanical Engineering Congress & Exposition*, ΗΠΑ, 15-21 Νοεμβρίου 2013.

◆ 10-13 Απριλίου 2012

Μέλος Οργανωτικής Επιτροπής Επιστημονικού Συνεδρίου “*Simulation of manufacturing technologies - 2012*”, Ufa, Ρωσική Ομοσπονδία

◆ Ιούλιος 2007

Μέλος Επιστημονικής Επιτροπής Επιστημονικού Συνεδρίου “*2nd International Conference on Experiments / Process / System / Modelling / Simulation & Optimization*”, Αθήνα, 4-7 Ιουλίου 2007.

◆ 7 Ιουλίου 2006

Chairman of the Session "Static and dynamic Behaviour of Structures" Επιστημονικού Συνεδρίου “*2nd International Conference “From Scientific Computing to Computational Engineering*”, Αθήνα, 5-8 Ιουλίου 2006.

◆ Μάιος 2006

Μέλος Επιτροπής Διοργάνωσης Συνεδρίου 2006 IASME/WSEAS Conference Water Resources, Hydraulics and Hydrology, Χαλκίδα, 8-10 Μαΐου 2006.

ΕΠΑΓΓΕΛΜΑΤΙΚΕΣ ΟΡΓΑΝΩΣΕΙΣ

◆ Τεχνικό Επιμελητήριο της Ελλάδας (AM 54178) μέλος 13/4/1989

◆ Πανελλήνιος Σύλλογος Μηχανολόγων Ηλεκτρολόγων Μηχανικών (AM 54178) μέλος από 20/3/1998