

ΜΙΧΑΛΗΣ Ε. ΚΙΖΗΡΟΓΛΟΥ

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

ΠΛΗΡΟΦΟΡΙΕΣ

Όνομα	Μιχαήλ Ε. Κιζήρογλου
Ημερομηνία γέννησης	15 Μαΐου 1977
Διεύθυνση ηλεκτρονικού ταχυδρομείου	m.kiziroglou@ihu.gr

ΕΚΠΑΙΔΕΥΣΗ

2003-2006	Διδακτορικό στη τεχνολογία μικροηλεκτρονικής. School of Electronics and Computer Science, University of Southampton, U.K.
2001-2003	Μεταπτυχιακό δίπλωμα μικροηλεκτρονικής και πληροφορικής. Τμήμα Ηλ. Μηχ. & Μηχ. Υπολογιστών. Δημοκρίτειο Πανεπιστήμιο Θράκης, με άριστα (μέσος όρος 9.88/10).
1995-2000	Δίπλωμα Ηλεκτρολόγου Μηχανικού & Μηχανικού Υπολογιστών, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης με άριστα (8.56/10).
1989-1995	24ο Λύκειο Θεσσαλονίκης. Βαθμοί πανελλήνιων Εξετάσεων: Μαθηματικά 160/160, Φυσική: 155/160, Χημεία: 149/160, Έκθεση: 129/160.

ΑΚΑΔΗΜΑΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ

2021-2023	Αναπληρωτής Καθηγητής στις Τεχνολογίες Μικροηλεκτρονικής και Μικροσυστημάτων, Τμήμα Μηχανικών Παραγωγής & Διοίκησης, Δι.Πα.Ε. (ΦΕΚ: 1783/2021)
2012-2021	Επίκουρος Καθηγητής/Καθ. Εφαρμογών, Τμήμα Αυτοματισμού, ΑΤΕΙ Θεσσαλονίκης. (ΦΕΚ: 1322/2016, 1123/2011)
2006-2021	Μεταδιδακτορικός Ερευνητής στην ανάπτυξη συστημάτων συγκομιδής ενέργειας (MEMS) για ασύρματα δίκτυα αισθητήρων, Electrical & Electronics Engineering, Imperial College London. (πλήρης απασχόληση 2006-2008, μερική απασχόληση 2008-2021)
2010-2012	Λέκτορας, (Π.Δ. 407, 4 ώρες/εβδομάδα). Σχεδιασμός και διδασκαλία εργαστηρίου Ηλεκτρονικής και Ψηφιακών Συστημάτων, Πανεπιστήμιο Δυτικής Μακεδονίας.
2008-2012	Επιστημονικός και Εργαστηριακός Συνεργάτης, Τμήμα Μηχανικών Αυτοματισμού και Τμήμα Ηλεκτρονικών Μηχανικών, ΑΤΕΙ Θεσσαλονίκης
2011	Μεταδιδακτορικός Ερευνητής στην ανάπτυξη αυτόνομων ασύρματων δικτύων αισθητήρων, Τμήμα Ηλεκτρ. Μηχ. & Μηχ. Υπολ., Α.Π.Θ. (Χρηματοδότηση: ΕΕ ΑΠΘ)
2010	Λέκτορας, (Π.Δ. 407, 3 ώρες/εβδομάδα). Αυτόνομη διδασκαλία μαθήματος Τεχνολογία Ηλεκτροτεχνικών και Ηλεκτρονικών Υλικών, Δημοκρίτειο Πανεπιστήμιο Θράκης
2009-2010	Μεταδιδακτορικός Ερευνητής στην προσομοίωση διάδοσης σπιν, Τμήμα Ηλεκτρ. Μηχ. & Μηχ. Υπολ., Α.Π.Θ. (Χρηματοδότηση: ΙΚΥ)
2008-2009	Λέκτορας, (Π.Δ. 407, 5 ώρες/εβδομάδα). Αυτόνομη διδασκαλία μαθήματος 9 ^{ου} εξαμήνου «Μικροηλεκτρομηχανολογικά Συστήματα», Πανεπιστήμιο Θεσσαλίας.
2003-2006	Εργαστηριακός Συνεργάτης στην Ηλεκτρονική, ECS, University of Southampton.
2002-2003	Μόνιμος εκπαιδευτικός Ηλεκτρονικής Δευτεροβάθμιας Εκπαίδευσης (από ΑΣΕΠ). 2 ^ο Τεχνικό Επαγγελματικό Εκπαιδευτήριο Κιλκίς. Παραίτηση: Φ.Ε.Κ 707/14-9-2007.

ΔΗΜΟΣΙΕΥΣΕΙΣ

Τριάντα επτά δημοσιεύσεις σε επιστημονικά περιοδικά, τέσσερα κεφάλαια επιστημονικών βιβλίων, δύο βιβλία, σαράντα τέσσερις δημοσιεύσεις σε πρακτικά συνεδρίων και είκοσι εννέα άλλες συμμετοχές σε διεθνή συνέδρια. Επισυνάπτεται κατάλογος. (Google Scholar h-index: 18, Web of Science h-index: 15)

ΒΡΑΒΕΙΑ & ΥΠΟΤΡΟΦΙΕΣ

2018	Outstanding Reviewer Award, Institute of Physics
2017	Short-course teaching on powering the Internet-Of-Things with UC Berkeley Prof. James Evans and two Silicon Valley corporate CEOs, FLEX 2017 Conference, Monterey, CA, USA.
2013	Βραβείο ερευνητικού έργου StrainWiSe. European Mechatronics Awards 2013.
2011	Υποτροφία αριστείας για μεταδιδακτορική έρευνα, Α.Π.Θ.
2009	Υποτροφία Ι.Κ.Υ. για μεταδιδακτορική έρευνα στην μικροηλεκτρονική.
2007-2008	Βραβεία άριστης επίδοσης, Imperial College London, U.K.
2003-2006	Πλήρης υποτροφία για Διδακτορική Διατριβή (δίδακτρα & διαβίωση). School of Electronics and Computer Science, University of Southampton, U.K.
2003	Βραβείο Ι.Κ.Υ. για το μεγαλύτερο βαθμό μεταπτυχιακών σπουδών.
2000	Βραβείο Τ.Ε.Ε. και απαγγελία όρκου κατά την αποφοίτηση από το πολυτεχνείο Α.Π.Θ.
1993-1995	Τρίτο (1993) και πρώτο (1995) βραβείο Μαθηματικής Εταιρίας. Τρία Αριστεία Προόδου.

ΧΡΗΜΑΤΟΔΟΤΟΥΜΕΝΑ ΕΡΓΑ

Περίοδος	Τόπος	Τίτλος Έργου	Χρηματοδότηση	Ρόλος
2003-2006	U. Southampton	Integration of Spintronics into Silicon Microelectronics	EPSRC, U.K.	Κύριος ερευνητής (Διδακτορικό)
2006-2008	Imperial	FASTSAN	EPSRC, U.K. DTI U.K.	Μεταδιδακτορικός ερευνητής (Research Associate)
2006-2009	Imperial	BioSensorNet	EPSRC, U.K.	Μεταδιδακτορικός ερευνητής (Research Associate)
2009-2010	Α.Π.Θ.	Προσομοίωση διάδοσης σπιν ρευμάτων σε ημιαγωγούς	Ι.Κ.Υ.	Κύριος ερευνητής
2010-2012	Imperial	StrainWiSe	EU, FP7	Μεταδιδακτορικός ερευνητής (Research Associate)
2011	Α.Π.Θ.	Ασύρματα δίκτυα αισθητήρων για την παρακολούθηση αγροτικών καλλιεργειών	Α.Π.Θ.	Κύριος ερευνητής
2012	Α.Τ.Ε.Ι.Θ.	Τροφοδοτικά από ανακυκλωμένους φορτιστές	Α.Τ.Ε.Ι.Θ.	Κύριος ερευνητής
2012-2014	Imperial	FliteWiSe, Ample	EU, FP7, Airbus	Ερευνητής (Research Associate)
2014-2015	Α.Τ.Ε.Ι.Θ.	Σύγγραμμα εργαστηριακών ασκήσεων ηλεκτρονικής	Πρόγραμμα Κάλλιπος, ΕΜΠ	Κύριος συγγραφέας
2014-2015	Α.Τ.Ε.Ι.Θ.	Σύγγραμμα Λογισμού	Πρόγραμμα Κάλλιπος, ΕΜΠ	Κύριος συγγραφέας
2016-2019	Α.Τ.Ε.Ι.Θ.	Phononics for temperature sensing	Int. Consortium of Nanotechnologies	Υποστήριξη έρευνας
2016	UC Berkeley	Aircraft autonomous power supplies	Airbus	Ερευνητής
2016-2023	I.H.U. / Imperial	AMPWISE, ENHANCE, SMARTWISE	EU, H2020	Ερευνητής

ΙΔΙΟΤΗΤΕΣ:

Μέλος του Τεχνικού Επιμελητηρίου Ελλάδος από το 2001.

Μέλος του Institute of Physics από το 2004.

Μέλος της IEEE από το 2004 (Senior Member since 2014)

Μιχαήλ Ε. Κιζήρογλου

ΚΑΤΑΛΟΓΟΣ ΔΗΜΟΣΙΕΥΣΕΩΝ

Δημοσιεύσεις σε Έγκριτα Περιοδικά

J30. Th. Becker , M. E. Kiziroglou , M. Duffy , B. Zaghari and E. M. Yeatman, **Industrial Adoption of Energy Harvesting: Challenges and Opportunities**, IEEE Power Electronics Magazine, DOI: 10.1109/MPEL.2023.3271199, Accepted 2023.

J29. A. Y. S. Pandiyan, D. E. Boyle, M. E. Kiziroglou, S. W. Wright and E. M. Yeatman, **Optimal Dynamic Recharge Scheduling for Two Stage Wireless Power Transfer**, IEEE Transactions on Industrial Informatics, in press and available online: DOI: 10.1109/TII.2020.3035645, 2020.

J28. J. Lombardi, M. Lallart, M. E. Kiziroglou and E. M. Yeatman, **A piezoelectric self-powered active interface for AC/DC power conversion improvement of electromagnetic energy harvesting**, Smart Materials and Structures, 29 (11), 117002, 2020.

J27. M. E. Kiziroglou, S. W. Wright, and E. M. Yeatman, **Coil and core design for inductive energy receivers**, Sensors and Actuators A: Physical, 313, 112206, 2020

J26. K. Karakostas, S. Gkagkanis, K. Katsaliaki, P. Köllensperger, A. Hatzopoulos, and M. E. Kiziroglou, **Portable optical blood scattering sensor**, Microelectronic Engineering, vol. 217, p. 111129, 2019

J25. M. E. Kiziroglou, Th. Becker, S. W. Wright, E. M. Yeatman, J. W. Evans and P. K. Wright, **3D Printed Insulation for Dynamic Thermoelectric Harvesters with Encapsulated Phase Change Materials**, IEEE Sensor Letters, 1 (4), 5500404, 2017

J24. M. E. Kiziroglou, D. E. Boyle, S. W. Wright and E. M. Yeatman, **Acoustic power delivery to pipeline monitoring wireless sensors**, Ultrasonics, 77, 54–60, 2017

J23. L. v Allmen , G. Bailleul , Th. Becker , J-D Decotignie , M. E. Kiziroglou , C. Leroux , P.D. Mitcheson, J. Müller , D. Pigué , T.T. Toh, A. Weisser , S.W. Wright and E.M. Yeatman, **Aircraft Strain WSN powered by Heat Storage Harvesting**, IEEE Transactions on Industrial Electronics, 64, 7284, DOI: 10.1109/TIE.2017.2652375, 2017

J22. M. E. Kiziroglou, D. E. Boyle and E. M. Yeatman, **Opportunities for Sensing Systems in Mining**, IEEE Transactions on Industrial Informatics, 13 (1), 278-286, 2017

J21. D.E. Boyle, M.E. Kiziroglou, P.D. Mitcheson and E.M. Yeatman, **Provision and Storage of Energy for Pervasive Computers**, IEEE Pervasive Computing, 15 (4), 28-35, 2016

J20. M. E. Kiziroglou, A. Elefsiniotis, N. Kokorakis, S. W. Wright, T. T. Toh, P. D. Mitcheson, U. Schmid, Th. Becker and E. M. Yeatman, **Scaling and super-cooling in heat storage harvesting devices**, Microsystem Technologies, 22, 1905, 2016

J19. M. E. Kiziroglou and E. M. Yeatman, **Protection of electronics from environmental temperature spikes by phase change materials**, Journal of Electronic Materials, vol. 44 (11), pp. 4589-4594, 2015

J18. J. Hao, M. E. Kiziroglou, D. C. Yates, and E. M. Yeatman, **A Motion-Powered Piezoelectric Pulse Generator for Wireless Sensing via FM Transmission**, Internet of Things Journal, IEEE, vol. 2, pp. 5-13, 2015

J17. T. T. Toh, S. W. Wright, M. E. Kiziroglou, P. D. Mitcheson and E. M. Yeatman, **A dual polarity, cold-starting interface circuit for heat storage energy harvesters**, Sensors and Actuators, A 211, 38–44, 2014

- J16. M. E. Kiziroglou, S. W. Wright, T. T. Tzern, P. D. Mitcheson, T. Becker, and E. M. Yeatman, **Design and fabrication of heat storage thermoelectric harvesting devices**, IEEE Transactions on Industrial Electronics, 61 (1), 302, 2014
- J15. M. E. Kiziroglou, A. Elefsiniotis, S. W. Wright, T. T. Tzern, P. D. Mitcheson, Th. Becker and E. M. Yeatman, **Performance of phase change materials for heat storage thermoelectric harvesting**, App. Phys. Lett. 103, 193902, 2013
- J14. C. He, M. E. Kiziroglou, D. Yates and E. M. Yeatman, **A MEMS Self-Powered Sensor and RF Transmission Platform for WSN Nodes**, IEEE Sensors, 11 (12), 3437, 2011
- J13. M. E. Kiziroglou, A. G. Mukherjee, S. Vatti, A. S. Holmes, C. Papavassiliou and E. M. Yeatman, **Self-assembly of 3D Au inductors on silicon**, IET Microwaves, Antennas & Propagation, 4 (11), 1698, 2010
- J12. M. E. Kiziroglou, C. He and E. M. Yeatman, **Flexible substrate electrostatic energy harvester**, Electronics Letters, 46 (2), 166–167, 2010.
- J11. X. V. Li, M. K. Husain, M. E. Kiziroglou and C.H. de Groot, **Inhomogeneous Ni/Ge Schottky barriers due to variation in Fermi-level pinning**, Microelectronic Engineering, 86, 1599, 2009
- J10. M. E. Kiziroglou, C. He and E. M. Yeatman, **Rolling Rod Electrostatic Microgenerator**. IEEE Transactions on Industrial Electronics, 56 (4), 1101, 2009.
- J9. M. E. Kiziroglou, X. Li, M. K. Husain, A. A. Zhukov, P. A. J. de Groot and C. H. de Groot. **Thermionic field emission at electrodeposited Ni-Si Schottky barriers**. Solid State Electronics, 52, 1032-1038, 2008.
- J8. P.D.Mitcheson, T. Sterken, E.M.Yeatman, C.He, M.Kiziroglou and R. Puers, **Electrostatic Microgenerators**, Measurement and control, Vol. 41, 114-119, 2008.
- J7. D. C. Gonzalez, M. E. Kiziroglou, X. Li, A. A. Zhukov, H. Fangohr, P. A. J. de Groot, P. N. Bartlett and C. H. de Groot. **Long range ordering in self-assembled Ni arrays on patterned Si**. Journal of Magnetism and Magnetic Materials. 316, e78, 2007.
- J6. M. E. Kiziroglou, A. A. Zhukov, X. Li, D. C. Gonzalez, P. A. J. de Groot, P. N. Bartlett and C. H. de Groot. **Orientation and symmetry control of inverse sphere magnetic nano arrays by guided self-assembly**. J. Appl. Phys. 100, 113720, 2006
- J5. M. E. Kiziroglou, A. A. Zhukov, X. Li, D. C. Gonzalez, P. A. J. de Groot, P. N. Bartlett and C. H. de Groot. **Analysis of thermionic emission from electrodeposited Ni-Si Schottky barriers**. Solid State Communications, 140, 508, 2006.
- J4. A. A. Zhukov, M. E. Kiziroglou, A. V. Goncharov, R. Boardman, M. A. Ghanem, M. Abdelsalam, V. Novosad, G. Karapetrov, X. Li, H. Fangohr, C. H. de Groot, P. N. Bartlett, P. A. J. de Groot. **Shape induced anisotropy in anti-dot arrays from self-assembled templates**. IEEE Trans. Magn. 71, no. 10, 3598, 2005.
- J3. M. E. Kiziroglou, A. A. Zhukov, M. Abdelsalam, X. Li, P. A. J. de Groot, P. N. Bartlett, and C. H. de Groot. **Electrodeposition of Ni-Si Schottky barriers**. IEEE Trans. Magn. 41, no. 10, 2639, 2005.
- J2. T. Uchino, K. N. Bourdakos, C. H. de Groot, P. Ashburn, M. E. Kiziroglou, G. D. Dilliway, and D. C. Smith. **Metal catalyst free low temperature carbon nanotube growth on SiGe islands**. App. Phys. Lett. 86, 233110, 2005.
- J1. M. E. Kiziroglou and I. Karafyllidis, **Design and simulation of a nanoelectronic single-electron analog to digital converter**. Microelectronics Journal, 34, no. 9, 785, 2003.

Δημοσιεύσεις σε Έγκριτα Πρακτικά Διεθνών Συνεδρίων

CP36. X. Chen, J. Zhao, K. Vias, M. E. Kiziroglou and E. M. Yeatman, **Origami-Inspired Flexure-Based Robot For Endomicroscopy Probe Manipulation**, Accepted, Transducers, 25-29 June, Kyoto, Japan, 2023

C35. G. Lombardi, M. Lallart, M. E. Kiziroglou and E. M. Yeatman, **AC/DC Power Conversion Improvement of Rotational Electromagnetic Energy Harvesting Using Piezoelectric Elements for Active Rectification**, PowerMEMS, Krakow, Poland 2-6 Dec. 2019 (Oral)

C34. A. Pandiyan, M. E. Kiziroglou, D. Boyle, S. W. Wright and E. M. Yeatman, **Optimal Energy Management of Two Stage Energy Distribution Systems Using Dynamic Clustering**, PowerMEMS, Krakow, Poland 2-6 Dec. 2019 (Oral)

C33. A. Pandiyan, R. La Rosa, M. E. Kiziroglou, E. M. Yeatman, **Understanding Far Field Ultrasonic Power Transmission for Automobile Sensor Networks in Free Space**, PowerMEMS, Krakow, Poland 2-6 Dec. 2019 (Poster)

CP32. M. E. Kiziroglou, S. W. Wright and E. M. Yeatman, **Shaped coil-core design for inductive energy collectors**, PowerMEMS, Krakow, Poland 2-6 Dec. 2019 (Oral)

CP31. D. E. Boyle, S. W. Wright, H. Fu, M. E. Kiziroglou, A. Y. S. Pandiyan and E. M. Yeatman **Inductive Power Delivery with Acoustic Distribution to Wireless Sensors**, Wireless Power Week, 17-21 June 2019, London, U.K., 2019 (Oral)

CP30. M. E. Kiziroglou, S. W. Wright, M. Shi, D. E. Boyle, Th. Becker, J. W. Evans and E. M. Yeatman, **Milliwatt Power Supply by Dynamic Thermoelectric Harvesting**, PowerMEMS, Kanazawa, Daytona Beach, Florida, USA, Dec. 4-7, 2018 (Demo)

CP29. M. E. Kiziroglou, M. Cowell, B. T. Kumaravel, D. E. Boyle, J. W. Evans, P. K. Wright and E. M. Yeatman, **Speed vs Efficiency and Storage Type in Portable Energy Systems**, PowerMEMS, Kanazawa, Japan, Nov. 14 – 17, 2017 (Oral)

CP28. C. Iosifidis, K. Katsaliaki, P. Kollensperger and M. E. Kiziroglou, **Design of an embedded sensor system for measuring laser scattering on blood cells**, Proc. SPIE 10247, Bio-MEMS and Medical Microdevices III, 102470G, doi:10.1117/12.2266515, Barcelona, Spain, May 8-10, 2017 (Poster)

CP27. M. E. Kiziroglou, Th. Becker, E. M. Yeatman, U. Schmid, J. W. Evans and P. K. Wright; **Comparison of methods for static charge energy harvesting on aircraft**, Proc. SPIE 10246, Smart Sensors, Actuators, and MEMS VIII, 102460X, doi:10.1117/12.2264890, Barcelona, Spain, May 8-10, 2017 (Oral)

CP26. M. E. Kiziroglou, Th. Becker, S. W. Wright, E. M. Yeatman, J. W. Evans and P. K. Wright, **Thermoelectric Generator Design in Dynamic Thermoelectric Energy Harvesting**, PowerMEMS, Paris, France, Dec. 6-9, 2016 (Oral)

CP25. M. E. Kiziroglou, D. E. Boyle, S. W. Wright and E. M. Yeatman, **Acoustic energy transmission in cast iron pipelines**, Dec. 1-4, PowerMEMS, Boston, USA, 2015, Journal of Physics: Conference Series 660, 012095, 2015 (Poster)

CP24. M. E. Kiziroglou, A. Elefsiniotis, N. Kokorakis, S. W. Wright, T. T. Toh, P. D. Mitcheson, U. Schmid, Th. Becker and E. M. Yeatman, **Scaling of dynamic thermoelectric harvesting devices in the 1-100 cm³ range**, Proc. SPIE 95172F, Smart Sensors, Actuators, and MEMS VII, Cyber Physical Systems, Barcelona, Spain, 21 May, 2015 (Oral)

CP23. H. Jiang, M. E. Kiziroglou, D. C. Yates and E. M. Yeatman, **A non-harmonic motion-powered piezoelectric FM wireless sensing system**, Transducers 2015, Anchorage, June 21-15, pp. 710-713 (Oral)

CP22. T. T. Toh, S. W. Wright, M. E. Kiziroglou, J. Mueller, M. Sessinghaus, E. M. Yeatman and P. D. Mitcheson, **Inductive energy harvesting from variable frequency and amplitude aircraft power lines**, Nov. 18–21, PowerMEMS, Hyogo, Japan, 2014, Journal of Physics: Conference Series 557 (2014) 012095 (Poster)

CP21. T. T. Toh, S. W. Wright, M. E. Kiziroglou, P. D. Mitcheson and E. M. Yeatman, **Inductive Energy Harvesting for Rotating Sensor Platforms**, Nov. 18–21, PowerMEMS, Hyogo, Japan, 2014, Journal of Physics: Conference Series 557 (2014) 012034 (Poster)

CP20. H. Jiang, M. E. Kiziroglou, D. Yates and E. M. Yeatman, **A Piezoelectric Pulse Generator and FM Transmission Circuit for Self-Powered BSN Nodes**, 11th Conf. on Wearable and Implanted Body Sensor Networks (BSN 2014), Zurich, June 16-20 (Oral)

CP19. T. T. Toh, S. W. Wright, M. E. Kiziroglou, E. M. Yeatman, P. D. Mitcheson, **Harvesting Energy from Aircraft Power Lines**, 11th ACM Conference on Embedded Networked Sensor Systems, SenSys'13, Nov. 11–15, Rome, Italy, 2013 (Demo)

CP18. A. Elefsiniotis, M. E. Kiziroglou, S. W. Wright, T. T. Toh, P. D. Mitcheson, Th. Becker, E. M. Yeatman and U. Schmid, **Performance evaluation of a thermoelectric energy harvesting device using various phase change materials**, PowerMEMS, London, U.K, 2013 (Oral)

CP17. A. A. Papachristou, M. E. Kiziroglou, L. Petrou, S. Koundouras and A. A. Hatzopoulos, **Viability of Thermoelectric Energy Harvesting for Precision Agriculture Sensor Nodes**, 8th Jordanian International Electrical and Electronics Engineering Conference, Amman, Jordan, 16-18 Apr. 2013 (Oral).

CP16. M. E. Kiziroglou, S. W. Wright, T. T. Tzern, P. D. Mitcheson, T. Becker, and E. M. Yeatman, **Heat Storage Power Supply For Wireless Aircraft Sensors**, PowerMEMS, Atlanta, USA, 2012 (Poster).

CP15. M. E. Kiziroglou, D. Samson, Th. Becker and E. M. Yeatman, **Optimization of heat flow for phase change thermoelectric harvesters**, PowerMEMS, P67, Seoul, Korea, 2011 (Poster).

CP14. M. E. Kiziroglou, D. C. Yates, C. He and E. M. Yeatman, **Body motion powered wireless transmission platform**, 187, Leuven, Belgium, PowerMEMS 2010. (Oral)

CP13. C. He, M. E. Kiziroglou, D. C. Yates and E. M. Yeatman, **MEMS Energy Harvester for Wireless Biosensors**, IEEE MEMS Conference, Hong-Cong 24-28 January, 2010 (Oral).

CP12. A.G. Mukherjee, S. Vatti, M. E. Kiziroglou, R. W. Moseley, C. Papavassiliou, A. S. Holmes and E. M. Yeatman, **Integration of Self-Assembled Inductors with CMOS LC Oscillators**, European Microwave Week, Rome, Italy, 28 Sept – 02 Oct, 2009. (Oral)

CP11. C. He, A. Arora, M. E. Kiziroglou, D. C. Yates, D. O'Hare and E. M. Yeatman, **MEMS energy harvesting powered wireless biometric sensor**, 6th International Workshop on Wearable and Implantable Body Sensor Networks, Berkeley, California, 3-5 June 2009. (Oral)

CP10. A. G. Mukherjee, M. E. Kiziroglou, A. S. Holmes and E. M. Yeatman. **Die-level integration of metal MEMS with CMOS**. IEEE Electronics System Integration Technology Conference (ESTC) London, U.K., 2008. (Oral)

CP09. A. G. Mukherjee, M.E. Kiziroglou, S. Vatti, C. Papavassiliou, A.S. Holmes and E.M. Yeatman, **Fabrication of RF MEMS Components on CMOS Circuits**. MEMSWAVE, Heraklion, Greece, 30 June-3 July 2008. (Poster)

- CP08. M. E. Kiziroglou, C. He and E. M. Yeatman, **Non-resonant electrostatic energy harvesting from a rolling mass**. IEEE 5th International Workshop on Wearable and Implantable Body Sensor Networks, Hong Kong, 1-3 June 2008. (Oral)
- CP07. M. E. Kiziroglou, A. G. Mukherjee, R. W. Moseley, P. Taylor, S. Pranonsatit, A. S. Holmes and E. M. Yeatman. **Electrodeposition of Au for Self-Assembling 3D Micro-Structures**. SPIE Proc. MOEMS-MEMS, Vol. 6882-10, San Jose, California, 2008 (Oral).
- CP06. A. G. Mukherjee, M. E. Kiziroglou, A. S. Holmes and E. M. Yeatman. **MEMS post-processing of MPW dies using BSOI carrier wafers**. SPIE Proc. MOEMS-MEMS, Vol. 6882-13, San Jose, California, 2008. (Oral)
- CP05. M. E. Kiziroglou, C. He and E. M. Yeatman. **Electrostatic energy harvester with external proof mass**. Proc. PowerMEMS 2007, p. 117, Freiburg, Germany, 2007. (Poster)
- CP04. M. E. Kiziroglou, A. A. Zhukov, X. Li, D. C. Gonzalez, P. N. Bartlett, P. A. J. de Groot and C. H. de Groot. **Transport mechanisms at Ni-Si Schottky barriers for spin injection**. IEEE International Magnetism Conference, p.123-123, San Diego, California, 8-12 May 2006. (Oral)
- CP03. A. A. Zhukov, M. E. Kiziroglou, A. V. Goncharov, R. Boardman, M. A. Ghanem, V. Novosad, G. Karapetrov, X. Li, H. Fangohr, C. H. de Groot, P. N. Bartlett and P. A. J. de Groot. **Shape induced anisotropy in hybrid anti-dot arrays from guided self-assembly templates**. Digests of the IEEE International Magnetism Conference, p. 923-924, Nagoya, Japan, 4-8 April 2005. (Oral)
- CP02. M. E. Kiziroglou, A. A. Zhukov, M. Abdelsalam, X. Li, P. A. J. de Groot, P. N. Bartlett, and C. H. de Groot. **Electrodeposition of Ni-Si Schottky barriers**. Digests of the IEEE International Magnetism Conference, p. 1197-1198, Nagoya, Japan, 4-8 April 2005. (Oral)
- CP01. T. Uchino, K. N. Bourdakos, C. H. de Groot, P. Ashburn, S. Wang, M. E. Kiziroglou, G. D. Dilliway, and D. C. Smith. **Catalyst free low temperature direct growth of carbon nanotubes**. Proc. of the 5th IEEE Conference on Nanotechnology, Vol. 2, 649-652, 2005. (Oral).

Βιβλία, Κεφάλαια Βιβλίων και Οδικό Χάρτες Τεχνολογίας

- B6. M. Hayes, M. Duffy, B. Zahnstecher, M. E. Kiziroglou and J. Khan, **Power Technology Roadmap: Energy Harvesting**, Power Supply Manufacturers Association, pp. 31-43, 2019.
- B5. H. M. Gramling, M. E. Kiziroglou and E. M. Yeatman, **Nanotechnology for Consumer Electronics**, Ch. 33, in Challenges in nanoelectronics, Ed: R. Puer, L. Baldi, B. van Nooten, M van de Voorde, Wiley-VCH, Weinheim, Germany. Pages: 501-526, ISBN: 9783527800728, 2017
- B4. M. E. Kiziroglou, **Calculus for Engineers** (in Greek), HEALLING, National Technical University of Athens, ISBN: 978-960-603-287-5, 2015.
- B3. M. E. Kiziroglou, **Introduction to Electronics: Laboratory Exercises** (in Greek), HEALLING, National Technical University of Athens, ISBN: 978-960-603-286-8, 2015.
- B2. Th. Becker, A. Elefsiniotis and M. E. Kiziroglou, **Thermoelectric Energy Harvesting in Aircraft**, in Micro Energy Harvesting (eds D. Briand, E. Yeatman and S. Roundy), Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany. doi: 10.1002/9783527672943.ch20, 2015
- B1. M. E. Kiziroglou and E. M. Yeatman, **Materials and techniques for energy harvesting**, in Functional Materials for Sustainable Energy Applications, E. Kilner, ed, Woodhead Publishing, 2012.

Είκοσι Έξι Άλλες Συμμετοχές σε Έγκριτα Διεθνή Συνέδρια, που συμπεριλαμβάνουν:

A25. M. E. Kiziroglou, **Powering Cyber-Physical-System nodes by Energy Harvesting**, IEEE Circuits and Systems Society, Seasonal School: Heterogeneous Cyber Physical Systems of Systems, Thessaloniki, Greece, Nov. 29 – Dec. 01, 2019 (Oral, Invited)

A21. J. W. Evans, B. Zahnstecher, M. E. Kiziroglou and C. Ho, Conference Short Course: **Energy: Harvesting, Storage and Management for Flexible Systems in the IOT**, Flextech Conference, Monterey, California, USA, 2017 (Course)

A15. P. D. Mitcheson, M. E. Kiziroglou and E. M. Yeatman, **Energy Harvesting for Green Electronics**, Symposia on VLSI Technology and Circuits, Kyoto, Japan, 15-18 June, 2009 (Invited)

A12. E. Bitziou, M. Ho, M. E. Kiziroglou, P. L. Leow, D. O'Hare, M. Sloman, C. Toumazou, L. Wang, G. Z. Yang, E. Yeatman and L. Zhao, **EPSRC WINES BIOSENSORNET Project Demonstration**. Wired and Wireless Intelligent Networked Systems Workshop, Warwick, U.K. 2007 (Poster, 1st best poster award).

Είκοσι Έξι Άλλες Συμμετοχές σε Έγκριτα Διεθνή Συνέδρια

A26. S. W. Wright, M. E. Kiziroglou, S. Spasic, N. Radosevic and E. M. Yeatman, **Inductive Energy Harvesting From Current-Carrying Structures**, IEEE Sensors Conference, Rotterdam (online), Oct. 25-28, 2020 (Poster)

A25. M. E. Kiziroglou, **Powering Cyber-Physical-System nodes by Energy Harvesting**, IEEE Circuits and Systems Society, Seasonal School: Heterogeneous Cyber Physical Systems of Systems, Thessaloniki, Greece, Nov. 29 – Dec. 01, 2019 (Oral, Invited)

A24. A. V. Pandiyan, H. Fu, M. E. Kiziroglou, E. M. Yeatman. **Performance Analysis of Amplified Piezoelectric Actuators (APA) for Energy Harvesting**, Materials for Clean Energy Conference, 8-10 April 2019, National Physics Laboratory, London, UK (Oral)

A23. A. V. Pandiyan, M. E. Kiziroglou, E. M. Yeatman, **Hybrid Vibrational Energy Harvesters Integrated with Frequency Up-Conversion and Pre-Biasing Methods**, Noise in Physical Systems (NiPS) Conference, Perugia (Italy), July 17-20, 2018 (Poster)

A22. M. Kluge, M. E. Kiziroglou, E. M. Yeatman, U. Schmid, D. Schupke, Th. Becker, **Dynamic Thermoelectric Energy Harvesting in Aircraft**, EnerHarv 2018, Cork, Ireland (Poster)

A21. J. W. Evans, B. Zahnstecher, M. E. Kiziroglou and C. Ho, Conference Short Course: **Energy: Harvesting, Storage and Management for Flexible Systems in the IOT**, Flextech Conference, Monterey, California, USA, 2017 (Course)

A20. A. Hamid, M. E. Kiziroglou and K. Fobelets, ICON Conference, Athens, Greece, 7 Apr. 2017 (Poster)

A19. M. E. Kiziroglou, C. E. Gregg and P. K. Wright, **Smart and Light Aircraft Structures by WSNs**, Berkeley Wireless Research Center (BWRC) Fall Retreat, University of California at Berkeley, 2-3 Nov. 2016 (Poster)

- A18. M. E. Kiziroglou, S. W. Wright, T. T. Toh, P. D. Mitcheson and E. M. Yeatman, **Heat Storage Harvesting on Aircrafts**, Holistic ShowCase, 11.02.13, Imperial College London 2013 (Demo)
- A17. E. M. Yeatman, M. E. Kiziroglou, S. W. Wright, T. T. Toh, Th. Becker and P. D. Mitcheson **Heat Storage Thermoelectric Energy Harvesting**, NiPS 2012 Workshop on Energy harvesting: models and applications. Erice, Italy, 23-27 July 2012 (Poster)
- A16. M. E. Kiziroglou, A. Papachristou, L. Petrou, S. Koundouras and A. A. Hatzopoulos, **Thermoelectric Energy Harvesting for Agricultural Monitoring**, 12th International Conference on Nanosciences & Nanotechnologies, Thessaloniki, Greece, 2012 (Poster).
- A15. P. D. Mitcheson, M. E. Kiziroglou and E. M. Yeatman, **Energy Harvesting for Green Electronics**, Symposia on VLSI Technology and Circuits, Kyoto, Japan, 15-18 June, 2009 (Invited)
- A14. M. E. Kiziroglou, A. A. Hatzopoulos, M. K. Husain and C. H. de Groot, **Simulation of spin-wise transmission at Schottky contacts**, 6th International Conference on Nanosciences & Nanotechnologies, Thessaloniki, Greece, 2009 (Poster).
- A13. X. Li, M. E. Kiziroglou, M. K. Husain, A. A. Zhukov, P. A. J. de Groot and C. H. de Groot. **Transport mechanisms at ferromagnet-silicon Schottky barrier contact for spin injection**. WUN-SPIN 2007, 7-10, August, 2007, York, UK. 2007 (Oral).
- A12. E. Bitziou, M. Ho, M. E. Kiziroglou, P. L. Leow, D. O'Hare, M. Sloman, C. Toumazou, L. Wang, G. Z. Yang, E. Yeatman and L. Zhao, **EPSRC WINES BIOSENSORNET Project Demonstration**. Wired and Wireless Intelligent Networked Systems Workshop, Warwick, U.K. 2007 (Poster, 1st best poster award).
- A11. M. E. Kiziroglou, S. Pranonsatit, A. Goswami-Mukherjee, A. S. Holmes and E. M. Yeatman. **Oxidation control at Sn surfaces for MEMS applications**. Condensed Matter and Material Physics 2007, Leicester, U.K. (Poster).
- A10. X. Li, D. C. Gonzalez, M. E. Kiziroglou, C. H. de Groot. A. A. Zhukov, P.A. J. de Groot and P. N. Bartlett. **Nano inverse sphere Ni arrays by guided self-assembly**. Joint IEEE International Magnetism Conference and Conference on Magnetism and Magnetic Materials, Baltimore, U.S.A. 2007. (Oral)
- A09. M. E. Kiziroglou. **Guided self-assembly of latex spheres for photonics**. Photonics, Southampton, U.K., 2006. (Oral)
- A08. M. E. Kiziroglou, A. A. Zhukov, X. Li, D. C. Gonzalez, P. N. Bartlett, P. A. J. de Groot and C. H. de Groot. **Transport mechanisms at Ni-Si Schottky barriers for spin injection**. III Joint European Magnetic Symposia 2006 (Poster), Institute of Physics, Condensed Matter and Material Physics 2006 (Oral) and Institute of Physics, Film Deposition and the Control of Interfaces for Spintronics, London, U.K., 2006 (Oral).
- A07. X. Li, D. C. Gonzalez, A. A. Zhukov, M. E. Kiziroglou, P. N. Bartlett, P. A. J. de Groot, H. Fangohr and C. H. de Groot. **Magnetic Domain structures in self-assembled Ni anti-dot stripes on Si**. III Joint European Magnetic Symposia, San Sebastian, Spain, 2006 (Poster) and Institute of Physics, Condensed Matter and Material Physics, Exeter, U.K., 2006 (Poster, 3rd best poster award).
- A06. D. C. Gonzalez, M. E. Kiziroglou, X. Li, A. A. Zhukov, H. Fangohr, P. A. J. de Groot, P. N. Bartlett, C. H. de Groot. **Orientation, symmetry control and long range ordering in self-**

assembled Ni arrays on patterned Si. International Workshop on Nanomagnets by Self-organization, Eisenerz, Austria, 2006 (Oral).

A05. T. Uchino, K. N. Bourdakos, P. Ashburn, C. H. de Groot, M. E. Kiziroglou and D. C. Smith. **Catalyst free low temperature direct growth of carbon nanotubes on SiGe islands and Ge quantum dots.** 6th International Conference on the Science and Application of Nanotubes, Gothenburg, Sweden, 2005 and Nanotechnology in Carbon and Related Materials, Brighton, U. K., 2005 and Institute of Physics, Physics Conference, Warwick, U.K. 2005. (Poster)

A04. C. H. de Groot, M. E. Kiziroglou, A. A. Zhukov, M. Abdelsalam, X. Li, , P. N. Bartlett , P. A. J. de Groot, **Si integration of guided Ni arrays.** European Magnetic Research Society Meeting, Strasbourg, France 2005. (Poster)

A03. M. E. Kiziroglou, A. A. Zhukov, X. Li, D. C. Gonzalez, P. N. Bartlett, P. A. J. de Groot and C. H. de Groot. **Schottky barriers and magnetoresistance of self-assembled Ni anti-dot stripes on Si.** Conference on Magnetism and Magnetic Materials, San Jose, California, U.S.A. 2005. (Oral)

A02. A. A. Zhukov, M. E. Kiziroglou, G. Bordignon, V. Novosad, G. Karapetrov, H. Fangohr, C. H. de Groot, P.N. Bartlett and P. A. J. de Groot. **Magnetization reversal in anti-dot arrays from guided self-assembly templates.** Conference on Magnetism and Magnetic Materials, San Jose, California, U.S.A. 2005. (Oral)

A01. M. E. Kiziroglou, X. Li, C. H. de Groot, A. Zhukov, M. Abdelsalam, P. N. Bartlett and P. A. J. de Groot. **Electrodeposition of magnetic materials on patterned silicon substrates.** Institute of Physics, Current Research In Magnetism, London, U.K. 2004. (Poster)