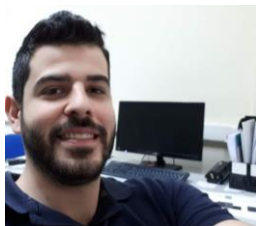


ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Αντώνιος Μακρίδης

Φυσικός, MSc, PhD

ΠΡΟΣΩΠΙΚΕΣ ΠΛΗΡΟΦΟΡΙΕΣ



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ΕΚΠΑΙΔΕΥΣΗ ΚΑΙ ΚΑΤΑΡΤΙΣΗ

12/05/2014–12/04/2019

Διδακτορικό δίπλωμα

Τμήμα Φυσικής, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Θεσσαλονίκη (Ελλάδα)

Τίτλος διατριβής "*Magnetic Nanostructures and Nanomagnetism for Modern Biomedical Applications*".
 Επιβλέπων: Μαυροειδής Αγγελακέρης (Αναπ. Καθηγητής)

09/2011–10/2013

Μεταπτυχιακό πρόγραμμα Νανοεπιστήμες και Νανοτεχνολογίες

Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Θεσσαλονίκη (Ελλάδα)

Θέμα διπλωματικής εργασίας: "*In-vitro αξιολόγηση μαγνητικών νανοσωματιδίων ως φορέων στη μαγνητική υπερθερμία*". Επιβλέπων: Ο. Καλογήρου (Καθηγητής)

11/2010–08/2011

Εκπλήρωση στρατιωτικών υποχρεώσεων

Λαγκαδάς/Θεσσαλονίκη (Ελλάδα)

9μηνη στρατιωτική θητεία

09/2005–09/2010

Πτυχίο Φυσικής

Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Θεσσαλονίκη (Ελλάδα)

Κατεύθυνση: Εφαρμοσμένη Φυσική

Θέμα πτυχιακής εργασίας: "*Αξιοποίηση μαγνητικών νανοσωματιδίων Fe στη μαγνητική υπερθερμία*".
 Επιβλέπων: Μαυροειδής Αγγελακέρης (Αναπ. Καθηγητής)

ΕΡΕΥΝΗΤΙΚΗ ΕΜΠΕΙΡΙΑ

Νοε 22 – Ιαν 23

▪ Ακαδημαϊκός υπότροφος για διδασκαλία του μαθήματος της Φυσικής στο Τμήμα Μηχανικών Περιβάλλοντος του Δι.Πα.Ε.

Οκτ 21 - σήμερα

▪ Ερευνητής στο Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης στο έργο:- Μαγνητικά νανοϋβρίδια για τη θεραπεία του καρκίνου (MaNaCa) Horizon 2020 - το πρόγραμμα-πλαίσιο για Έρευνα και Καινοτομία (2014-2020). Στόχος της θέσης αυτής είναι η επίβλεψη και η εκπαίδευση νέων ερευνητών στον τομέα των μαγνητικών νανοσωματιδίων και της μαγνητικής υπερθερμίας.

Νοε 19 – Νοε 21

▪ Υπότροφος του Ιδρύματος Κρατικών Υποτροφιών (I.K.Y.) στο πλαίσιο της Ενίσχυσης Μεταδιδακτόρων ερευνητών/ερευνητριών - Β Κύκλος. Μεταδιδακτορικός ερευνητής στο Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Τμήμα Φυσικής) – Εργαστήριο Μαγνητικού χαρακτηρισμού Νανοδομών, Τεχνολογίας & Εφαρμογών Χαρακτηρισμού (MagnaCharta). Τίτλος: «Μαγνητικά νανοσωματίδια: Τυποποίηση της θερμικής απόδοσης μαγνητικών νανοσωματιδίων».

Ιουλ 18 - Σεπ 19

▪ Τμήμα Φυσικής, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Ελλάδα - Συμμετοχή στο Ερευνητικό πρόγραμμα με τίτλο "*Αξιοποίηση επίδρασης πεδίων σε κατάλληλους νανοσωματιδιακούς φορείς για σύγχρονες βιοϊατρικές εφαρμογές*" - Επιστημονικά Υπεύθυνος: Καθ. Αγγελακέρης Μαυροειδής - χρηματοδότηση "ΕΣΠΑ 2014-2020").

15 Απρ 17 - 25 Απρ 17

- Ερευνητικό project σύντομης διάρκειας - Short term scientific mission - (STSM) στην ογκολογική κλινική Erasmus MC Cancer Institute Daniel den Hoed στην Ολλανδία με τίτλο έρευνας "Εκτίμηση της αβεβαιότητας στη μέτρηση του ειδικού ρυθμού απωλειών των νανοσωματιδίων υπό την επίδραση εναλλασσόμενου μαγνητικού πεδίου - framework of the COST EMF - MED (Action BM1309), Επιβλέπων: Gerard Van Rhoon (Καθηγητής).

Μαρ 15 – Ιαν 16

- Τμήμα Χημείας, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης - Συμμετοχή στο Επιστημονικό πρόγραμμα με τίτλο: Έξυπνα μαγνητικά νανοσώματα κατάλληλα ως αντιδραστήρια αντίθεσης στη μαγνητική απεικονιστική τομογραφία, Επιστημονικός Υπεύθυνος: Αικατερίνη Δενδρινού-Σαμαρά (Καθηγήτρια) - Συγχρηματοδότηση: European Union (European Social Fund ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Investing in knowledge society through the European Social Fund.

16 Ιουν 15 - 04 Ιουλ 15

- Επιστημονικό project σύντομης διάρκειας στο Τμήμα Φυσικής του Πανεπιστημίου Ντούισμπουργκ (Γερμανία) - χρηματοδότηση: IKYDA 13-15.

ΑΤΟΜΙΚΕΣ ΔΕΞΙΟΤΗΤΕΣ

Μητρική γλώσσα Ελληνική

Λοιπές γλώσσες

	ΚΑΤΑΝΟΗΣΗ		ΟΜΙΛΙΑ		ΓΡΑΦΗ
	Προφορική	Γραπτή (ανάγνωση)	Επικοινωνία	Προφορική έκφραση	
Αγγλικά	C2	C2	C2	C2	C2
	Certificate of Proficiency in English				
Γαλλικά	A1	A1	A1	A1	A1
	DIPLOME D'ÉTUDES EN LANGUE FRANÇAISE DELF A1				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Οργανωτικές / διαχειριστικές δεξιότητες

Επικοινωνιακές δεξιότητες, ικανότητα επίλυσης προβλημάτων, κριτική σκέψη, επαγγελματισμός, ηγετικές δεξιότητες, ευελιξία, ομαδικό πνεύμα, διαχείριση του χρόνου, αναλυτική σκέψη, πειθώ, ικανότητα στη δημιουργία παρουσιάσεων (προφορικών, αφίσες), ικανότητα στη σύνταξη επιστημονικών κειμένων (εργασίες, δημοσιεύσεις, αναφορές), ικανότητα επικοινωνίας και ανθρωπίνων σχέσεων, (σεμινάρια, ομιλίες, παρουσιάσεις), ικανότητα διδασκαλίας και μεταδοτικότητα.

Επαγγελματικές δεξιότητες

Τεχνικές Γνώσεις: Matlab, MS Office (Word, Excel, PowerPoint, Labview), Windows OS, OriginPro, βασικός προγραμματισμός (C, Python), εμπειρία στο χαρακτηρισμό μαγνητικών συστημάτων με χρήση μεθόδων (XRD, FTIR, TGA) και μαγνητομετρίας (VSM, SQUID), πειράματα μαγνητικής υπερθερμίας, τεχνικές προσομοίωσης (Compsol).

Δίπλωμα οδήγησης B

ΣΥΝΟΨΗ ΕΡΕΥΝΗΤΙΚΗΣ ΔΡΑΣΤΗΡΙΟΤΗΤΑΣ

Δημοσιεύσεις σε διεθνή περιοδικά με κριτές 24

Ανακοινώσεις σε συνέδρια	47 (33 σε διεθνή, 14 σε τοπικά / 10+ προφορικές, 30+ αναρτήσεις)
Ετεροαναφορές (Scopus)	821
Δείκτης h (Scopus)	12
Συμμετοχή σε ερευνητικά προγράμματα	4
Συμμετοχή σε οργάνωση συνεδρίων	4

ΠΑΡΑΡΤΗΜΑΤΑ

Δημοσιεύσεις σε διεθνή περιοδικά με κριτές

Scientific Reports

1. C. Martinez-Boubeta, K. Simeonidis, **A. Makridis**, M. Angelakeris, O. Iglesias, P. Guardia, A. Cabot, L. Yedra, S. Estradé, F. Peiró, Z. Saghi, P. A. Midgley, I. Conde-Leborán, D. Serantes and D. Baldomir "Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications", *Scientific Reports*, 3:1652, (2013). **(I.F. 5.578)**

Journal of Materials Chemistry B

2. **A. Makridis**, K. Topouridou, M. Tziomaki, D. Sakellari, K. Simeonidis, M. Angelakeris, M. P. Yavropoulou, J. G. Yovos and O. Kalogirou, "In vitro application of Mn-ferrite nanoparticles as novel magnetic hyperthermia agents" *Journal of Materials Chemistry B: Materials for biology and medicine*, 2, 8390-8398, (2014). **(I.F. 4.726)**

Journal of Magnetism and Magnetic Materials

3. S. Liébana Viñas, K. Simeonidis, Z.-A. Li, Z. Ma, E. Myrovali, **A. Makridis**, D. Sakellari, M. Angelakeris, U. Wiedwald, M. Spasova, M. Farle, "Tuning the magnetism of ferrite nanoparticles", *Journal of Magnetism and Magnetic Materials (JMMM)*, 415, 20-23, (2015). **(I.F. 1.970)**

RSC Advances

4. S. Liébana Viñas, K. Simeonidis, U. Wiedwald, Z.-A. Li, Z. Ma, E. Myrovali, **A. Makridis**, D. Sakellari, G. Vourlias, M. Spasova, M. Farle, M. Angelakeris "Optimum nanoscale design in ferrite based nanoparticles for magnetic particle hyperthermia", *RSC Adv.*, 6, 72918-72925, (2016). **(I.F. 3.84)**

Materials Science and Engineering: C

5. **A. Makridis**, I. Chatzitheodorou, K. Topouridou, M. P. Yavropoulou, M. Angelakeris, C. Dendrinou-Samara "A facile microwave synthetic route for ferrite nanoparticles with direct impact in magnetic particle hyperthermia" *Materials Science and Engineering: C*, 63:663-670, (2016). **(I.F. 3.088)**

RSC Advances

6. K. Simeonidis, S. Liébana-Viñas, U. Wiedwald, Z. Ma, Z.-A. Li, M. Spasova, O. Patsia, E. Myrovali, **A. Makridis**, D. Sakellari, I. Tsiaoussis, G. Vourlias, M. Farle and M. Angelakeris, "A versatile large-scale and green process for synthesizing magnetic nanoparticles with tunable magnetic hyperthermia features", *RSC Advances*, 6, 53107-53117, (2016). **(I.F. 3.84)**

International Journal of Hyperthermia

7. **A. Makridis**, M. Tziomaki K. Topouridou, M. P. Yavropoulou, J. G. Yovos, O. Kalogirou, T. Samaras, M. Angelakeris, "A novel strategy combining magnetic particle hyperthermia pulses with enhanced performance binary ferrite carriers for effective *in vitro* manipulation of primary human osteogenic sarcoma cells" *International Journal of Hyperthermia*, 1-21, (2016). **(I.F. 3.589)**

Scientific Reports

8. E. Myrovali, N. Maniotis, **A. Makridis**, A. Terzopoulou, V. Ntomproukidis, K. Simeonidis, D. Sakellari, O. Kalogirou, T. Samaras, R. Salikhov, M. Spasova, M. Farle, U. Wiedwald, M. Angelakeris, "Arrangement at the nanoscale: Effect on magnetic particle hyperthermia", *Scientific Reports*, 6:37934, (2016). **(I.F. 5.578)**

Journal of Colloid and Interface Science

9. K. Vamvakidis, S. Mourdikoudis, **A. Makridis**, E. Paulidou, M. Angelakeris, C. Dendrinou-Samara

"Magnetic hyperthermia efficiency and MRI contrast sensitivity of colloidal soft/hard ferrite nanoclusters" *Journal of Colloid and Interface Science*, 511, 101-109, (2018). **(I.F. 4.233)**

Journal of Magnetism and Magnetic Materials

10. N. Maniotis, **A. Makridis**, E. Myrovali, A. Theopoulos, T. Samaras & M. Angelakeris. "Magnetomechanical action of multimodal field configurations on magnetic nanoparticle environments." *Journal of Magnetism and Magnetic Materials*, 470, 6-11, (2019). **(I.F. 2.33)**

Nanotechnology

11. K. Spyridopoulou, **A. Makridis**, N. Maniotis, N. Karypidou, E. Myrovali, T. Samaras, M. Angelakeris, A. Chlichlia, and O. Kalogirou. "Effect of low frequency magnetic fields on the growth of MNPs-treated HT29 colon cancer cells." *Nanotechnology*, 29, 175101, (2018). **(I.F. 3.44)**

2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields IEEE

12. T. Odutola, E. Myrovali, **A. Makridis**, N. Maniotis, M. Angelakeris, V. Kimiskidis & T. Samaras "Can magnetic nanoparticles thermally assist the beneficiary role of transcranial magnetic stimulation?" *2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields (EMF-Med). IEEE*. (2018).

2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields IEEE

13. E. Myrovali, N. Maniotis, **A. Makridis**, K. Simeonidis, T. Samaras & M. Angelakeris "Regional Focus effect on Magnetic Particle Hyperthermia efficiency" Myrovali, Eirini, et al. "Regional Focus effect on Magnetic Particle Hyperthermia efficiency." *2018 EMF-Med 1st World Conference on Biomedical Applications of Electromagnetic Fields (EMF-Med). IEEE*, (2018).

Journal of Applied Physics

14. N. Maniotis, A. Nazlidis, E. Myrovali, **A. Makridis**, M. Angelakeris, & T. Samaras "Estimating the effective anisotropy of ferromagnetic nanoparticles through magnetic and calorimetric simulations." *Journal of Applied Physics*, 125.10:103903, (2019). **(I.F. 2.176)**

Journal of Physics D: Applied Physics

15. **A. Makridis**, S. Curto, G. C. van Rhooen, T. Samaras, & M. Angelakeris "A standardisation protocol for accurate evaluation of specific loss power in magnetic hyperthermia." *Journal of Physics D: Applied Physics*, 52.25:255001, (2019). **(I.F. 3.178)**

Chemical Engineering Journal

16. T. Asimakidou, A. **Makridis**, S. Veintemillas-Verdaguer, M.P. Morales, I. Kellartzis, M. Mitras, G. Vourlias, M. Angelakeris & K. Simeonidis. "Continuous production of magnetic iron oxide nanocrystals by oxidative precipitation." *Chemical Engineering Journal*, p.124593, (2020). **(I.F. 8.355)**

Materials

17. A. Makridis, E. Myrovali, D. Sakellari & M. Angelakeris. "Tuning the Structural and the Magnetic Properties of BiFeO₃ Magnetic Nanoparticles" *physica status solidi (b)*, (2020). **(I.F. 1.454)**. 3. K. Vamvakidis, T.M. Kostitsi, A. Makridis & C. Dendrinou-Samara. "Diverse Surface Chemistry of Cobalt Ferrite Nanoparticles to Optimize Copper (II) Removal from Aqueous Media" *Materials*, 13, 1537, (2020). **(I.F. 2.972)**.

ACS Applied Nano Materials

18. K. Simeonidis, C. Martinez-Boubeta, D. Serantes, S. Ruta, O. Chubykalo-Fesenko, R. Chantrell, J. Oró-Solé, L. Balcells, AS Kamzin, RA Nazipov, **A. Makridis**. "Controlling Magnetization Reversal and Hyperthermia Efficiency in Core-Shell Iron-Iron Oxide Magnetic Nanoparticles by Tuning the Interphase Coupling" *ACS Applied Nano Materials*, 13;3(5):4465-76 (2020). **(I.F. 7.5 ~ 10.0)**.

Physica Status Solidi (b)

19. **A. Makridis**, E. Myrovali, D. Sakellari and M. Angelakeris "Tuning the Structural and the Magnetic Properties of BiFeO₃ Magnetic Nanoparticles" *physica status solidi (b)*, 257(6), 2000005. **(2020)**

Magnetochemistry

20. C. Martinez-Boubeta, K. Simeonidis, J. Oró, **A. Makridis**, D. Serantes and L. Balcells "Finding the Limits of Magnetic Hyperthermia on Core-Shell Nanoparticles Fabricated by Physical Vapor Methods". *Magnetochemistry*, 7(4), 49, (2021). **(I.F. 2.193)**

Nanomaterials

21. G. Pefanis, N. Maniotis, A. R. Tsiapla, **A. Makridis**, T. Samaras, and M. Angelakeris, "Numerical

simulation of temperature variations during the application of safety protocols in magnetic particle hyperthermia" *Nanomaterials*, 12(3), 554, (2022). **(I.F. 5.076)**

IEEE Access

22. M. B. Lodi, **A. Makridis**, N. M. Carboni, K. Kazeli, N. Curreli, T. Samaras and A. Fanti, "Design and Characterization of Magnetic Scaffolds for Bone Tumor Hyperthermia", *IEEE Access*, 10, 19768-19779, (2022). **(I.F. 3.367)**

Journal of Physics D: Applied Physics

23. **Antonios Makridis**, Konstantina Kazeli, Pavlos Kyriazopoulos, Nikolaos Maniotis, Theodoros Samaras and Makis Angelakeris "An accurate standardization protocol for heating efficiency determination of 3D printed magnetic bone scaffolds", *Journal of Physics D: Applied Physics*, (2022). **(3.178)**

Nanoscale Advances

24. D. S. Raie, I. Tsonas, M. Canales, S. Mourdikoudis, K. Simeonidis, **A. Makridis** & N. T. K. Thanh, "Enhanced detoxification of Cr 6+ by *Shewanella oneidensis* via adsorption on spherical and flower-like manganese ferrite nanostructures", *Nanoscale Advances*, (2023). **(5.598)**

Ανακοινώσεις σε συνέδρια

Versatile magnetic filament fabrication: A novel pathway for 3D printed biomagnetic scaffolds

47. **A. Makridis**, N. Okkalidis, M. Angelakeris "Versatile magnetic filament fabrication: A novel pathway for 3D printed biomagnetic scaffolds" **Oral presentation in the 12th International Conference on Magnetic and Superconducting Materials (MSM22) 28 August – 02 September 2022, University of Duisburg-Essen, Germany. (Peer Reviewed Process) 14/06/2022 – 17/06/2022 – London, United Kingdom**

3D Printing of Polymer-Bonded Magnets

46. **A. Makridis**, D. Trygoniari, N. Okkalidis, M. Angelakeris "3D Printing of Polymer-Bonded Magnets" **Oral presentation in the 13 International Conference on the Scientific and Clinical Applications of Magnetic Carriers 14-17 June 2022, London, UK. (Peer Review Process) 14/06/2022 – 17/06/2022 – London, United Kingdom**

Iron-cementite nanoparticles in carbon matrix: Synthesis, features and biomedical perspectives

45. **A. Makridis**, K. Kontou, D. Karfaridis, F. Pinakidou, M. Katsikini, M. Tsompanoglou, M. Angelakeris, N. Sisakyan, H. Gyulasaryan, G. Chilingaryan, A. Manukyan, E. Papadopoulou, M. Spasova, M. Farle "Iron-cementite nanoparticles in carbon matrix: Synthesis, features and biomedical perspectives" **Poster presentation in the 13th International Conference on the Scientific and Clinical Applications of Magnetic Carriers 14-17 June 2022, London, UK. (Peer Review Process) 14/06/2022 – 17/06/2022 – London, United Kingdom**

Synthesis of flower-like manganese ferrite nanostructures for enhancing chromium bioreduction by *Shewanella oneidensis*

44. S.D. Raie, S. Mourdikoudis, **A. Makridis**, L. Ciric, N.T. K. Thanh "Synthesis of flower-like manganese ferrite nanostructures for enhancing chromium bio-reduction by *Shewanella oneidensis*" **Poster presentation in the 13th International Conference on the Scientific and Clinical Applications of Magnetic Carriers 14-17 June 2022, London, UK. (Peer Review Process) 26/09/2021 – 29/09/2021 – Virtual Conference**

Experimental Protocol for Accurate Measurement of 3D Printed Magnetic Scaffolds' Thermal Efficiency

43. **A. Makridis**, P. Kyriazopoulos, K. Kazeli, M. Angelakeris "Experimental Protocol for Accurate Measurement of 3D Printed Magnetic Scaffolds' Thermal Efficiency" **Oral presentation in the XXXV Panhellenic Conference on Solid State Physics and Materials Science September 26-29, 2021, Virtual Conference. (Peer Reviewed Process) 26/09/2021 – 29/09/2021 – Virtual Conference**

Nanomagnetic bioceramic nanocomposites: Fabrication, features and applications.

42. A. Athanasiadou, K. Kazeli, **A. Makridis**, E. Kontonasaki, E. Lymperaki, T. Samaras, M. Angelakeris "Nanomagnetic bioceramic nanocomposites: Fabrication, features and applications." **Poster presentation in Conference. (Peer Reviewed Process) Virtual Conference**

Techniques to improve the efficiency of magnetic particle hyperthermia therapy

41. A.R. Tsiapla, **A. Makridis**, T. Samaras, O. Kalogirou, M. Angelakeris "Techniques to improve the

efficiency of magnetic particle hyperthermia therapy" *Poster presentation in the XXXV Panhellenic Conference on Solid State Physics and Materials Science September 26-29, 2021, Virtual Conference. (Peer Reviewed Process)* 26/09/2021 – 29/09/2021 – Virtual Conference

3D Printing of Polymer-Bonded Magnets

40. D. Trygoniari, **A. Makridis**, N. Okkalidis, K. Kazeli, N. Maniotis, M. Angelakeris "3D Printing of Polymer-Bonded Magnets" *Poster presentation in the XXXV Panhellenic Conference on Solid State Physics and Materials Science September 26-29, 2021, Virtual Conference. (Peer Reviewed Process)* 26/09/2021 – 29/09/2021 – Virtual Conference

Fe/Fe₃C magnetic nanohybrids: Synthesis, features and applicatio

39. M. Tsompanoglou, E. Myrovali, **A. Makridis**, M. Angelakeris, H. Gyulasaryan, G. Chilingaryan, N. Sisakyan, A. Manukyan, E. Papadopoulou, N. Tetos, M. Spasova, M. Farle "Fe/Fe₃C magnetic nanohybrids: Synthesis, features and applications." *Poster presentation in the XXXV Panhellenic Conference on Solid State Physics and Materials Science September 26-29, 2021, Virtual Conference. (Peer Reviewed Process)* 26/09/2021 – 29/09/2021 – Virtual Conference

Tuning of magneto-mechanical forces due to magnetic field – nanoparticle interactions

38. N. Maniotis, **A. Makridis**, T. Samaras, M. Angelakeris "Tuning of magneto-mechanical forces due to magnetic field – nanoparticle interactions" *Oral presentation in the XXXV Panhellenic Conference on Solid State Physics and Materials Science September 26-29, 2021, Virtual Conference. (Peer Reviewed Process)* 24/08/2021 – 24/08/2021 – Virtual

A Novel Two-Stage 3D-Printed Halbach-Array Based Device for Magnetomechanical Applications

37. **A. Makridis**, P. Kyriazopoulos, N. Maniotis, M. Angelakeris "A Novel Two-Stage 3D-Printed Halbach-Array Based Device for Magnetomechanical Applications" *Oral presentation in the IEEE Magnetics Society: The 2021 Around-the-Clock Around-the-Globe AtC-AtG Magnetics Conference. (Peer Review Process)* 24/08/2021 – 24/08/2021 – Virtual

Synthesis, Structure, Magnetism and Magnetic Particle Heating Characterization of Fe/Fe₃C Nanoparticles in Carbon Matrix

36. H. Gyulasaryan, E. Papadopoulou, N. Tetos, G. Chilingaryan, N. Sisakyan, E. Myrovali, **A. Makridis**, M. Angelakeris, M. Farle, M. Spasova, A. Manukyan "Synthesis, Structure, Magnetism and Magnetic Particle Heating Characterization of Fe/Fe₃C Nanoparticles in Carbon Matrix" *Oral presentation in the IEEE Magnetics Society: The 2021 Around-the-Clock Around-the-Globe AtC-AtG Magnetics Conference. (Peer Review Process)* 18/04/2019 – 02/05/2019 – St. Pete Beach, Florida, USA

Consistent evaluation of specific loss power in magnetic particle hyperthermia

35. **A. Makridis**, S. Curto, G.C. van Rhoon, T. Samaras, M. Angelakeris "Consistent evaluation of specific loss power in magnetic particle hyperthermia" *Poster presentation at the 36th Annual Society for Thermal Medicine (STM) Meeting - April 28 - May 2, 2019 - St. Pete Beach, Florida, USA (Peer Reviewed Process)* 05/11/2018 – 07/11/2018 – Thessaloniki, Greece

Tuning of macroscopic magnetic features by magnetic field-induced nanoparticle selfassembly

34. E. Myrovali, **A. Makridis**, D. Sakellari and M. Angelakeris "Tuning of macroscopic magnetic features by magnetic field-induced nanoparticle self-assembly" *Oral presentation in the 7th International Conference 5-7 November 2018, Thessaloniki, Greece (Peer Reviewed Process)* 10/09/2018 – 13/09/2018 – Split, Croatia

Regional Focus effect on Magnetic Particle Hyperthermia efficiency

33. E. Myrovali, N. Maniotis, **A. Makridis** "Regional Focus effect on Magnetic Particle Hyperthermia efficiency" *Oral presentation in the 1st EMF-Med World Conference on Biomedical Applications of Electromagnetic Fields, 10-13 September 2018, Split, Croatia (Peer Reviewed Process)* 10/09/2018 – 13/09/2018

Can magnetic nanoparticles thermally assist the beneficiary role of TMS?

32. T. Odutola, E. Myrovali, **A. Makridis**, N. Maniotis, M. Angelakeris, V. Kimiskidis and T. Samaras "Can magnetic nanoparticles thermally assist the beneficiary role of transcranial magnetic stimulation?" *Oral presentation in the 1st EMF-Med World Conference on Biomedical Applications of Electromagnetic Fields, 10-13 September 2018, Split, Croatia (Peer Reviewed Process)* 22/05/2018 – 26/05/2018 – Copenhagen, Denmark

A standardization protocol for accurate and reliable magnetic particle hyperthermia evaluation

31. **A. Makridis**, E. Myrovali, D. Sakellari, M. Angelakeris "A standardization protocol for accurate and reliable magnetic particle hyperthermia evaluation" Poster presentation in the 12th International Conference On the Scientific And Clinical Applications On Magnetic Carriers, 22-26 May 2018, Copenhagen, Denmark (Peer Reviewed Process) 22/05/2018 – 26/05/2018 – Copenhagen, Denmark

Action of low-frequency magnetic field modes on magnetic nanoparticle environments

30. **A. Makridis**, E. Myrovali, D. Sakellari, M. Angelakeris "Action of low-frequency magnetic field modes on magnetic nanoparticle environments" Poster presentation in the 12th International Conference On the Scientific And Clinical Applications On Magnetic Carriers, 22-26 May 2018, Copenhagen, Denmark (Peer Reviewed Process) 22/05/2018 – 26/05/2018 – Copenhagen, Denmark

Regional Focus effect on Magnetic Particle Hyperthermia efficiency

29. E. Myrovali, N. Maniotis, **A. Makridis**, K. Simeonidis, T. Samaras, M. Angelakeris "Regional Focus effect on Magnetic Particle Hyperthermia efficiency" Poster presentation in the 12th International Conference On the Scientific And Clinical Applications On Magnetic Carriers, 22-26 May 2018, Copenhagen, Denmark (Peer Reviewed Process) 11/05/2018 – 12/05/2018 – Athens, Greece

Uncertainty and error minimization in magnetic particle hyperthermia evaluation

28. **A. Makridis**, E. Myrovali, D. Sakellari, M. Angelakeris "Uncertainty and error minimization in magnetic particle hyperthermia evaluation" **Oral** presentation in the 7th Regular National Metrology Conference ,11-12 May 2018, Athens, Greece (Peer Reviewed Process) 17/09/2018 – 22/09/2018 – Thessaloniki, Greece

A novel device for generation of unique magnetic field configurations to promote magneto-mechanical

27. **A. Makridis** , K. Spyridopoulou, N. Maniotis, E. Myrovali, T. Samaras, M. Angelakeris, K. Chlichlia, O. Kalogirou "A novel device for generation of unique magnetic field configurations to promote magneto-mechanical effects on cellular environments " Poster presentation in the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT17), 17-22 September 2017, Thessaloniki, Greece (Peer Reviewed Process) 17/09/2018 – 22/09/2018 – Thessaloniki, Greece

Magneto-chains of magnetic nanoparticles: fabrication and properties

26. E. Myrovali, N. Maniotis, **A. Makridis**, T. Samaras, U. Wiedwald, M. Angelakeris "Magneto-chains of magnetic nanoparticles: fabrication and properties" Oral presentation in the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT17), 17-22 September 2017, Thessaloniki, Greece (Peer Reviewed Process) 17/09/2018 – 22/09/2018 – Thessaloniki, Greece

Magnetic nanoparticle incorporation in magnetic stimulation protocols

25. T. Odutola, E. Myrovali, **A. Makridis** , N. Maniotis, V. Kimiskidis, T. Samaras, M. Angelakeris "Magnetic nanoparticle incorporation in magnetic stimulation protocols" Poster presentation in the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT17), 17-22 September 2017, Thessaloniki, Greece (Peer Reviewed Process) 17/09/2018 – 22/09/2018 – Thessaloniki, Greece

Highly Stable Hydrophilic Zn-Doped Ferrite Nanoparticles as MRI agents

24. T. Karamova, V. Georgiadou, **A. Makridis** , C. Dendrinou-Samara " Highly Stable Hydrophilic Zn-Doped Ferrite Nanoparticles as MRI agents" Poster presentation in the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT17), 17-22 September 2017, Thessaloniki, Greece (Peer Reviewed Process) 21/06/2017 – 23/06/2017 – Athens, Greece

Uncertainty and error minimization in magnetic particle hyperthermia evaluation

23. **A. Makridis**, T. Samaras, M. Angelakeris "Uncertainty and error minimization in magnetic particle hyperthermia evaluation" **Oral** presentation in the European Society for Hyperthermic Oncology "ESHO" Annual Meeting, 21-23 June 2017, Athens, Greece. (Peer Reviewed Process) 18/09/2016 – 21/09/2016

Dancing with magnetism: An attempt to control cell fate

22. **A. Makridis**, K. Spyridopoulou, N. Karypidou, N. Maniotis, E. Myrovali, T. Samaras, M. Angelakeris, K. Chlichlia, O. Kalogirou "Dancing with magnetism: An attempt to control cell fate" **Oral** presentation in the X XXII Panhellenic Conference on Solid State Physics and Materials Science, Conference Center "Carolos Papoulias", 18-21 September 2016, Ioannina, Greece (Peer Reviewed Process) 18/09/2016 – 21/09/2016 – Ioannina, Greece

Arranging at the nanoscale: Effect on magnetic particle hyperthermia

21. E. Myrovali, N. Maniotis, **A. Makridis**, A. Terzopoulou, V. Ntomprougkidis, K. Simeonidis, D. Sakellari, O. Kalogirou, T. Samaras, R. Salikhov, U. Wiedwald, M. Spasova, M. Farle and M. Angelakeris "Arranging at the nanoscale: Effect on magnetic particle hyperthermia" Oral presentation in the *XXXII Panhellenic Conference on Solid State Physics and Materials Science, Conference Center "Carolos Papoulias", 18-21 September 2016, Ioannina, Greece* (Peer Reviewed Process) 18/09/2016 – 21/09/2016 – Ioannina, Greece

Numerical simulations of interactions between magnetic nanoparticles and living matter

20. N. Maniotis, **A. Makridis**, E. Myrovali, T. Samaras and M. Angelakeris "Numerical simulations of interactions between magnetic nanoparticles and living matter through magnetothermal and magnetomechanical experimental setups" Poster presentation in the *XXXII Panhellenic Conference on Solid State Physics and Materials Science, Conference Center "Carolos Papoulias", 18-21 September 2016, Ioannina, Greece* (Peer Reviewed Process) 18/09/2016 – 21/09/2016 – Ioannina, Greece

Magnetic nanoparticle heating in an AC magnetic field; an ex vivo approach

19. Z. Kalpaxidou, K. Kazeli, **A. Makridis**, E. Myrovali, N. Maniotis, D. Sakellari, T. Samaras and M. Angelakeris "Magnetic nanoparticle heating in an AC magnetic field; an ex vivo approach" Poster presentation in the *XXXII Panhellenic Conference on Solid State Physics and Materials Science, Conference Center "Carolos Papoulias", 18-21 September 2016, Ioannina, Greece* (Peer Reviewed Process) 25/11/2015 – 27/11/2015 – Bologna, Italy

"Smart" ferrite nanoparticles for biomedical applications

18. C. Dendrinou-Samara, K. Vamvakidis, V. Georgiadou, K. Giannousi, **A. Makridis**, C. Gkanatsiou, Z. Iatridi, G. Bokias, K. Vasiou, I. Tsougos "Smart" ferrite nanoparticles for biomedical applications" Poster presentation in the *International Conference-NanotechITALY 2015 – Cross-Cutting KETs for Responsible Innovation, 25-27 November 2015, Bologna, Italy*. (Peer Reviewed Process) 20/09/2015 – 23/09/2015 – Thessaloniki, Greece

Promising features of bimetallic magnetic nanoparticles allow tuning parameters in MPH application

17. **A. Makridis**, K. Simeonidis, O. Patsia, E. Myrovali, D. Sakellari, J. Tsiaousis, T. Samaras, O. Kalogirou and M. Angelakeris S Liébana Viñas, Zi-An Li, U. Wiedwald, M. Spasova, M. Farle, M. Tziomaki, K. Topouridou, M. P. Yavropoulou and J. G. Yovos "Promising features of bimetallic magnetic nanoparticles allow tuning parameters in magnetic hyperthermia application" **Oral** presentation in the *31 Panhellenic Conference on Solid-State Physics and Materials Science, 20-23 September 2015, Thessaloniki, Greece*. (Peer Reviewed Process) 20/09/2015 – 23/09/2015 – Thessaloniki, Greece

Magnetic field modes for manipulation of magnetic nanoparticles

16. N. Maniotis, **A. Makridis**, E. Myrovali, T. Samaras and M. Angelakeris "Magnetic field modes for manipulation of magnetic nanoparticles" Poster presentation in the *31th Panhellenic Conference on Solid-State Physics and Materials Science, 20-23 September 2015, Thessaloniki, Greece*. (Peer Reviewed Process) 20/09/2015 – 23/09/2015 – Thessaloniki, Greece

Reliable measurements and error-free data handling of magnetic particle hyperthermia parameters

15. A. Terzopoulou, N. Varveris, **A. Makridis**, E. Myrovali, K. Simeonidis, T. Samaras, O. Kalogirou and M. Angelakeris "Reliable measurements and error-free data handling of magnetic particle hyperthermia parameters" Poster presentation in the *31th Panhellenic Conference on Solid-State Physics and Materials Science, 20-23 September 2015, Thessaloniki, Greece*. (Peer Reviewed Process) 20/09/2015 – 23/09/2015 – Thessaloniki, Greece

Optimization of magnetic hyperthermia via synthesis parameters of magnetic nanoparticles

14. O. Patsia, E. Myrovali, **A. Makridis**, K. Simeonidis, I. Tsiaousis, D. Sakellari and M. Angelakeris, "Optimization of magnetic hyperthermia via synthesis parameters of magnetic nanoparticles" Poster presentation in the *31th Panhellenic Conference on Solid-State Physics and Materials Science, 20-23 September 2015, Thessaloniki, Greece*. (Peer Reviewed Process) 20/09/2015 – 23/09/2015 – Thessaloniki, Greece

Enhanced Magnetic Heating Efficiency By Nanoscale Mixing And Matching In Ferrite-Based Nanoparticle

13. S. Liébana Viñas, K. Simeonidis, Zi-An Li, E. Myrovali, **A. Makridis**, D. Sakellari, M. Angelakeris, U. Wiedwald, M. Spasova and M. Farle, "Enhanced Magnetic Heating Efficiency By Nanoscale Mixing And Matching In Ferrite-Based Nanoparticles" Poster presentation in the *31th Panhellenic Conference on Solid- State Physics and Materials Science, 20-23 September 2015, Thessaloniki, Greece. (Peer Reviewed Process)* 30/08/2015 – 03/09/2015 – Svetlogorsk, Russia

Tuning the magnetism of ferrite nanoparticles by nanoscale mixing and matching

12. S. Liébana Viñas, K. Simeonidis, Zi-An Li, E. Myrovali, **A. Makridis**, D. Sakellari, M. Angelakeris, U. Wiedwald, M. Spasova, M. Farle "Tuning the magnetism of ferrite nanoparticles by nanoscale mixing and matching" Poster presentation in the *International Baltic Conference on magnetism (IBCM 2015), 30 August – 3 September 2015, Svetlogorsk, Russia. (Peer Reviewed Process)* 07/07/2015 – 10/07/2015 – Thessaloniki, Greece

Magnetic hyperthermia efficiency of supercolloidal nanostructures of Co and Mn ferrites

11. Z. Iatridi, K. Vamvakidis, **A. Makridis**, A. Angelakeris, O. Kalogirou, C. Dendrinou-Samara, G. Bokias "Magnetic hyperthermia efficiency of supercolloidal nanostructures of Co and Mn ferrites by multi stimuliresponsive amphiphilic copolymers" Poster presentation in the *12 International Conference on Nanosciences & Nanotechnologies (NN15), 7-10 July 2015, Thessaloniki, Greece. (Peer Reviewed Process)* 08/07/2015 – 08/07/2015 – Aristotle University of Thessaloniki, Greece

Microwave synthesis of manganese ferrite nanoparticles suitable for biological applications:

10. **A. Makridis**, G. Xatzitheodorou, K. Topouridou, M. Tziomaki, M.P. Yavropoulou, M. Angelakeris, J.G. Yovos, O. Kalogirou and C. Dendrinou-Samara "Microwave synthesis of manganese ferrite nanoparticles suitable for biological applications: in vitro magnetic hyperthermia in SaOs-2 tumor cells" **Oral** presentation in the *Scientific Workshop of the Scientific Program ""Smart" Magnetic nanoparticles probes for magnetic resonance imaging (MRI)" 8 July 2015, Chemistry Department of Aristotle University of Thessaloniki, Greece. 24/06/2015 – 26/06/2015 – Aarau and Zurich, Switzerland*

A promising green synthesis for magnetic nanoparticles leads to effective cancer treatment

9. **A. Makridis**, K. Simeonidis, O. Patsia, E. Myrovali, D. Sakellari, J. Tsiaousis, T. Samaras, O. Kalogirou, M. Angelakeris, S. Liébana Viñas, Zi-An Li, U. Wiedwald, M. Spasova, M. Farle, M. Tziomaki, K. Topouridou, M. P. Yavropoulou and J. G. Yovos "A promising green synthesis for magnetic nanoparticles leads to effective cancer treatment through versatile magnetic hyperthermia protocols" Poster & **Oral** flash presentations in the *European Society for Hyperthermic Oncology "ESHO" Annual Meeting, 24-26 June 2015, Aarau and Zurich, Switzerland. (Peer Reviewed Process)* 12/04/2015 – 15/04/2015 – Helsinki, Finland

Magnetic ferrite nanopartciles for biomedical applications

8. C. Dendrinou-Samara, K. Vamvakidis, V. Georgiadou, K. Giannousi, **A. Makridis**, Z. Iatridi, G. Bokias, F. Tuna, K. Vasiou, I Tsougos "Magnetic ferrite nanopartciles for biomedical applications" Poster presentation in the *International Congress on Safety of Engineered Nanoparticles and Nanotechnologies "SENN 2015", 12-15 April 2015, Helsinki, Finland. (Peer Reviewed Process)* 15/12/2014 – 15/12/2014 – Aristotle University of Thessaloniki, Greece

In vitro application of Mn-ferrite nanoparticles as novel magnetic hyperthermia agents

7. **A. Makridis**, Konstantina Topouridou, Magdalini Tziomaki, Despoina Sakellari, Konstantinos Simeonidis, Mavroeidis Angelakeris, Maria P. Yavropoulou, John G. Yovos and Orestis Kalogirou "In vitro application of Mn-ferrite nanoparticles as novel magnetic hyperthermia agents" Poster presentation in the *Scientific Workshop of Physics Department of Aristotle University of Thessaloniki 15 December 2014, Physics Department of Aristotle University of Thessaloniki, Greece. 21/09/2014 – 24/09/2014 – Heraklion-Crete, Greece*

A multifunctional approach focused on hyperthermia response of commercial ferrofluids

6. **A. Makridis**, M. Tziomaki, E. Myrovali, D. Sakellari, K. Simeonidis and M. Angelakeris "A multifunctional approach focused on hyperthermia response of commercial ferrofluids" Poster presentation in the *30 Panhellenic Conference on Solid-State Physics and Materials Science, 21-24 September 2014, Heraklion-Crete, Greece. (Peer Reviewed Process)* 08/07/2014 – 11/07/2014 – Thessaloniki, Greece

From commercial MRI contrast agents to multifunctional heating carriers

5. **A. Makridis**, K. Topouridou, M. Tziomaki, E. Myrovali, D. Sakellari, K. Simeonidis, M.P. Yavropoulou, J.G. Yovos and M. Angelakeris "From commercial MRI contrast agents to multifunctional heating carriers" Poster presentation in the *11 International Conference on Nanosciences & Nanotechnologies (NN14), 8-11 July 2014, Thessaloniki, Greece. (Peer Reviewed Process)*

10/06/2014 – 14/06/2014 – Dresden-Germany

Exploring multifunctional potential of commercial ferrofluids by magnetic particle hyperthermia mediators

4. D. Sakellari, S. Mathioudaki, Z. Kalpaxidou, M. Tziomaki, **A. Makridis** et al., "Exploring multifunctional potential of commercial ferrofluids by magnetic particle hyperthermia mediators" Poster presentation in the *10 International Conference on the Scientific and Clinical Applications of Magnetic Carriers – June 10-14, 2014 – Dresden-Germany*. (Peer Reviewed Process) 22/09/2013 – 25/09/2013 – Athens-Greece

In-vitro evaluation of cobalt and manganese ferrite nanoparticles for magnetic particle hyperthermia

3. **A. Makridis**, M. Tziomaki, K. Topouridou, K. Simeonidis, D. Sakellari, M.P. Yavropoulou, M. Angelakeris, J.G. Yovos and O. Kalogirou "In-vitro evaluation of cobalt and manganese ferrite nanoparticles for magnetic particle hyperthermia", Poster presentation in the *29 Panhellenic Conference on Solid State Physics and Materials Science, 22-25 September 2013, Athens-Greece*. (Peer Reviewed Process) 25/08/2013 – 30/08/2013 – Rhodes-Greece

Comparative evaluation of heating ability of different ferrite-based magnetic fluids in various mediums

2. **A. Makridis**, K. Topouridou, M. Tziomaki, K. Simeonidis, D. Sakellari, M.P. Yavropoulou, M. Angelakeris, J.G. Yovos and O. Kalogirou "Comparative evaluation of heating ability of different ferrite-based magnetic fluids in various mediums" Poster presentation in *Joint European Symposia on Magnetism (JEMS 2013), 25-30 August 2013, Rhodes-Greece*. (Peer Reviewed Process) 09/07/2013 – 12/07/2013 – Thessaloniki, Greece

In-vitro application of ferrite nanoparticles as novel magnetic hyperthermia agents

1. **A. Makridis**, K. Topouridou, M. Tziomaki, K. Simeonidis, M.P. Yavropoulou, M. Angelakeris, J.G. Yovos and O. Kalogirou "In-vitro application of ferrite nanoparticles as novel magnetic hyperthermia agents" **Oral presentation** in the *10 International Conference on Nanosciences & Nanotechnologies (NN13) 9-12 July 2013, Thessaloniki, Greece*. (Peer Reviewed Process)

Διακρίσεις

2019 – 2021: Υπότροφος του Ιδρύματος Κρατικών Υποτροφιών (Ι.Κ.Υ.) στο πλαίσιο της Ενίσχυσης Μεταδιδακτόρων ερευνητών/ερευνητριών - Β Κύκλος.

22-26 May 2018, Copenhagen, Denmark. Νικητής στο διαγωνισμό ερωτήσεων του 12ου Διεθνούς συνεδρίου: International Conference on the Scientific and Clinical Applications of Magnetic Carriers

2011 – 2013 Hellenic Republic State Scholarships Foundation (Ι.Κ.Υ.): Υποτροφία για επιστημονικές σπουδές στην Ελλάδα. Επιστημονικό πεδίο: Επιστήμες μηχανικού: Τεχνολογία Υλικών; Επιστήμη Ναυτεχνολογίας και Εφαρμογές.

Ευρωπαϊκά σχολεία

Συμμετοχή σε Ευρωπαϊκό Σχολείο "The Physics of Living Matter".

04/07/2016–08/07/2016 - Πανεπιστήμιο Στρασβούργου, Στρασβούργο (Γαλλία)
<https://indico.in2p3.fr/event/12733/>

Συμμετοχή σε Ευρωπαϊκό Σχολείο Μαγνητισμού

24/08/2015–04/09/2015 European School on Magnetism, Κλουζ (Ρουμανία)
<http://magnetism.eu/>