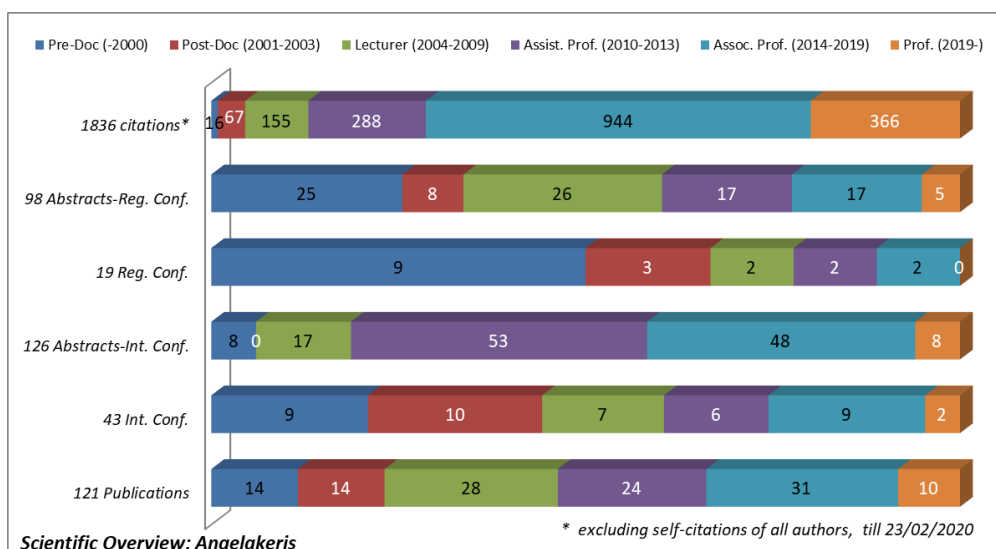


Σύντομο Βιογραφικό Σημείωμα

	Όνομα	Μαυροειδής Αγγελακέρης
	Προσωπικά Στοιχεία	Γεννήθηκε στις 15/03/1967, Έγγαμος από το 2005, Πατέρας ενός αγοριού
	Θέση	Καθηγητής, τμήμα Φυσικής-ΑΠΘ
	Στοιχεία Επικοινωνίας	email: agelaker@auth.gr www: http://users.auth.gr/agelaker , http://magnacharta.physics.auth.gr ☎: ++30231099-XXXX γραφείο: -8172, εργαστήριο: -0576, φαξ: -8172 ✉: Τμήμα Φυσικής, Αριστοτέλειο Πανεπιστήμιο, 54124, Θεσσαλονίκη
Σπουδές	<ul style="list-style-type: none"> • Διδακτορική Διατριβή, Τμήμα Φυσικής, ΑΠΘ (2000) • Πτυχίο Φυσικής, Τμήμα Φυσικής, ΑΠΘ (1990) 	
Επιστημονικά Ενδιαφέροντα	<ul style="list-style-type: none"> • Σύνθεση μεταλλικών (κυριών μαγνητικών) και ημιαγωγικών λεπτών και πολυστρωματικών υμενίων και νανοσωματιδίων • Δομικός, μαγνητικός, ηλεκτρικός, μαγνητο-οπτικός χαρακτηρισμός νανοδομημένων υλικών • Βιομαγνητικές εφαρμογές με άξονα τη Μαγνητική Υπερθερμία νανοσωματιδίων και Μαγνητο-Μηχανική Καταπόνηση 	
Σύνοψη Επιστημονικού Έργου	<ul style="list-style-type: none"> • 1836 ετεροαναφορές (από σύνολο 2488 αναφορών, <i>h-index</i>: 30, 23/02/2020) • 98 περιλήψεις σε Πρακτικά Τοπικών Συνεδρίων • 126 περιλήψεις σε Πρακτικά Διεθνών Συνεδρίων • 121 δημοσιεύσεις σε διεθνή περιοδικά με το σύστημα των κριτών • 22 προσκεκλημένες ομιλίες • Κριτής επιστημονικών άρθρα σε 10 διεθνή περιοδικά (12-20 άρθρα/έτος) • Επιβλέπων σε 5 PhD διατριβές (2 υπό εκπόνηση, 3 ολοκληρωμένες: 2016, 2019, 2020) • Επιβλέπων σε 16 MSc (1 υπό εκπόνηση) και 20 BSc εργασίες (3 υπό εκπόνηση) • Συμβουλευτική επιτροπή σε 6 PhD διατριβές (3 υπό εκπόνηση, 3 ολοκληρωμένες) • 14 συμμετοχές σε ερευνητικά προγράμματα (3 υπό εκπόνηση) • 6 συμμετοχές στην οργάνωση συνεδρίων • Προσκεκλημένος Εκδότης σε 4 ειδικούς τόμους • Εκπαιδευτική άδεια (09.2011-08.2012) στο AG Farle, Physics, UDE-Germany. 	



Δραστηριότητες

Γενικού ενδιαφέροντος: [Ας μαγνητιστούμε](#): Η δραστηριότητα αυτή ξεκίνησε στις Ανοιχτές Θύρες του ΑΠΘ το 2016 όπου περίπου 100 άτομα/έτος επισκέπτονται αυτό το ταξίδι μαγνητισμού που περιλαμβάνει 10 πειραματικούς σταθμούς. Οι επισκέπτες από ηλικίες 6 ετών και πάνω, μελετούν απλά, διασκεδαστικά πειράματα που αναδεικνύουν το ρόλο του μαγνητισμού στην καθημερινότητα. Η δράση αυτή συνεχίζεται μέχρι σήμερα τόσο μέσα από εκδηλώσεις του ΑΠΘ όσο και μέσα από επισκέψεις σχολείων.

Επιστημονικές: Συντονίζω την ομάδα μαγνητισμού [MagnaCharta](#) (Magnetic Nanostructure Characterization Technology & Applications), που πρόσφατα (Ιούνιος 2018) μετεγκαταστάθηκε στο [ΚΕΔΕΚ-ΑΠΘ](#) (Κέντρο Διεπιστημονικής Έρευνας και Τεχνολογίας). Το κύριο μας επιστημονικό ενδιαφέρον είναι η αλληλεπίδραση μαγνητικών πεδίων με νανοδομημένα υλικά. Για αυτό το σκοπό μελετάμε σύγχρονα μαγνητικά νανοϋλικά, όπως είναι τα μαγνητικά νανοσωματίδια, λεπτά και πολυστρωματικά υμένια, ξεκινώντας από τη συστηματική τους σύνθεση, συνεχίζοντας με ενδεδειγμένη μελέτη των φυσικών τους ιδιοτήτων και καταλήγοντας με την τεχνολογική αξιοποίηση του νανομαγνητισμού σε διάφορους τομείς όπως η βιοϊατρική, η αποθήκευση πληροφορίας και η βιώσιμη ανάπτυξη.

Μονογραφίες

1. Magnetic nanoparticles: A multifunctional vehicle for modern theranostics, M. Angelakeris, *Review Article in Biochimica Biophysica Acta General Subjects* 1861(6):1642-1651 (2017).
2. Magnetic Particle hyperthermia, M. Angelakeris, Book Chapter in *Vol. 8: Nanopharmaceuticals, Nanomedicine, and Food Nanoscience of 21st Century Nanoscience, A handbook*, (10 volumes), Taylor & Francis, in press (2020).

Οργάνωση

Οργανωτής του [1st Training Workshop on Magnetic nanohybrids for cancer therapy](#), 28-30 May 2020, Thessaloniki-Greece.

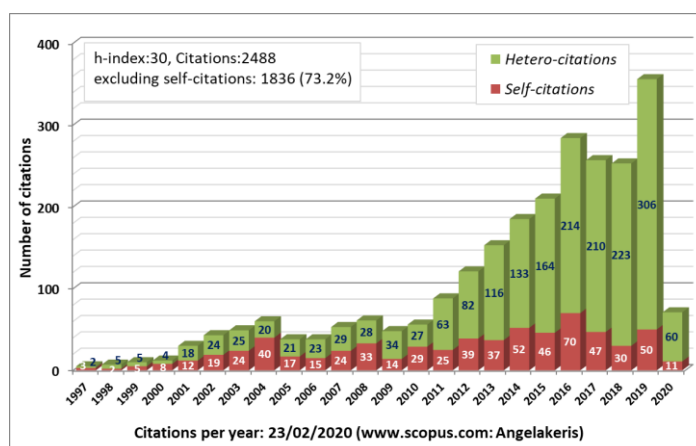
Κριτής

Διεθνή περιοδικά με κριτές: (12-20 manuscripts/year) *Physical Review Letters* and *Physical Review B*, *Sensors and Actuators A*, *Journal of Physics D: Applied Physics*, *Materials Science and Engineering C*, *Journal of Magnetism and Magnetic Materials*, *ACS Nano*, *Journal of Alloys and Compounds*, *Journal of Physical Chemistry*, *ACS Nano*, *IEEE Transactions on Magnetics*.

Προσκεκλημένος Εκδότης

- *Modern Physics Letters. B Vol.21 Num.18 August 2007.*
- *IEEE Transactions on Magnetics 48, 4 2012.*
- *Journal of Nanomaterials: Special Issue on "Magnetic Interfaces at the Nanoscale: From Fundamentals to Technological Applications", 2012.*
- *A special issue on Surfaces, Interfaces and Modern Trends on Magnetic Materials in Journal of Surfaces and Interfaces of Materials, Vol.2-Num1, 2014.*

Βιβλιογραφικά Δεδομένα



Προσκεκλημένες Ομιλίες

1. «Ag-Co multilayers: From film growth to GMR sensor», Group Seminar- AG Baberschke, Freie Universitat, Berlin-Germany, July 11, 2000.
2. «GMR study leading to sensor fabrication on the Ag-Co system», Laboratoire de Cristallographie, CNRS, Grenoble-France, July 28, 2001.
3. «Study of the magnetoresistance mechanisms in Pd- Ni multilayer system», 1st Seeheim Conference on Magnetism, Seeheim-Germany, September 9-13 2001.
4. «Magnetic nanostructures: Growth, characterization, perspectives», Summer School on Physics of Advanced Materials, Thessaloniki-Greece, June 30-July 11 2003.
5. «Quantitative Magnetic Analysis of Nanostructures», International Summer School & 4th Workshop on 'Synthesis and Orbital Magnetism of core-shell nanoparticles within the framework of the EU funded RTN project SyntOrbMag, Thessaloniki-Greece, September 26-October 1, 2006.
6. «The effect of intentional alloying in the magnetism of XPt (X=Fe, Co) based Nanostructures», 8th International Workshop on Synthesis and Orbital Magnetism of core-shell nanoparticles Mittelwahr-Colmar-France, October 24-25, 2008.
7. «Magnetic hyperthermia: In the quest of the proper nanoparticle agent», Institut de Ciència de Materials de Barcelona-Spain, July 12, 2010.
8. «Magnetic properties of nanoparticles useful in biomedical applications», Experimentalphysik-AG Farle, Fachbereich Physik, Universitaet Duisburg-Essen, October 28, 2011.
9. «Design rules for magnetic nanoparticles in medical applications», 23. Edgar Lüscher Seminar 2012, Klosters-Switzerland, February 04-10, 2012.
10. «Magnetic Nanoparticles: Biomedical Applicability as heating mediators» in 4th International Advances in Applied Physics and Materials Science Congress & Exhibition (APMAS2014), Oludeniz-Turkey, April 24-27, 2014.
11. «Nanoscale magnetism and its biomedical applicability» in 30th Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete-Greece, September 21-24, 2014.
12. «Biomedical Nanomagnetism: Advances, current trends and challenges», International Baltic Conference on Magnetism: Focus on Biomedical Aspects, Svetlogorsk-Kallinigrad-Russia, August 30-September 03, 2015.
13. «Magnetic nanoparticles: A multifunctional vehicle for modern theranostics» in 6th Zing Bionanomaterials Conference, Varna-Bulgaria, May 08-11, 2016.
14. «1. Applications of Nanomaterials in Medicine, 2. Biomedical Nanomagnetism: Advances, Current Trends and Challenges, 3. Magnetic Hyperthermia: A versatile platform for heat-triggered Modalities» in 3rd PAM International School on Application of Nanomaterials in Medicine, Sharif University of Technology, Tehran-Iran, November 02 – 04, 2016.
15. «Cancer Cell Fate Control By Magneto-Mechanical Treatments» in COST EMF-MED Workshop on Non-Thermal EMF Cancer Treatment, Warsaw-Poland, February 15, 2017.
16. «Which are the best nanoparticles for hyperthermia» in 31st annual meeting of the European Society for Hyperthermic Oncology: ESHO 2017, Athens-Greece, June 21-23, 2017.
17. «From particles to oriented assemblies: Effects on magnetism and applicability» in International Baltic Conference on Magnetism (IBCM): Focus on functionalized magnetic structures for energy and biotechnology, Svetlogorsk-Kallinigrad-Russia, August 20–24, 2017.
18. «Magnetic Nanoparticles: A multifunctional vehicle in modern theranostics» in 3rd ENMF: Exploring Novel Medical Frontiers, Thessaloniki-Greece, 26-28 January 2018.
19. «Control of cancer cell fate by magnetically driven treatments» in COST-Radiomag, Firenze-Italy, 16-18 October 2018.
20. «Nanomagnetism & Biomedical applicability», EETSY Workshop: Materials at the Nanoscale, Thessaloniki-Greece, November 03-04, 2018.
21. «Nanomagnetism in modern nanomedicine», ERC SLaMM workshop, Advanced theranostic nanomedicine in oncology, Pontedera-Pisa-Italy, January 31, 2019.
22. «Magnetic Particle Hyperthermia: Current trends and prospects», SpinS: 11th International Workshop on nanomagnetism, Duisburg-Germany, 2-4 October 2019.

Ερευνητικά προγράμματα

(τελευταία 5ετία: <http://magnacharta.physics.auth.gr/projects.htm>, [Older Projects](#))

1. ELIDEK: Magnetic nanoparticle arrays: Assembly, Properties, Applications, Scholarship for PhD student: (8 months: 2017-2018).
2. ESPA2014-20: EBDM34: Exploitation of field effects in adequate nanoparticle carriers for modern biological applications (15 months, 2018-2020).
3. Horizon2020|Twinning: Magnetic nanohybrids for cancer therapy (3 years, 2019-2022).
4. ESPA2014-20: EBDM34: Thermal and mechanical activation of magnetic nanoparticles as anti-cancer strategy (15 months, 2020-2021).
5. NSF: Standardization of thermal performance of magnetic nanoparticles (Scholarship for Post-Doc Researcher: 2 years, 2020-2021)

Δημοσιεύσεις σε διεθνή περιοδικά με το σύστημα των κριτών

(121 Publications, First author: 12%, Last Author: 9%, Corresponding author: 30%)

01. «Magnetic Properties of Co-based multilayers with Layer-Alloyed Modulations», P. Pouloupoulos et al., *J. Magn. Magn. Mater.* **148**, 78 (1995).
02. «Magneto-optic spectroscopic Kerr effect in Co-based multilayers with Layer-Alloyed modulation», M. Angelakeris et al., *J. Magn. Magn. Mater.* **140-144**, 579 (1995).
03. «Modulation-induced effects in Pt-Ni multilayers: enhanced magnetization, perpendicular anisotropy and its instability», P. Pouloupoulos et al., *J. Magn. Magn. Mater.* **140-144**, 613 (1995).
04. «Infrared spectroscopic and electronic transport properties of polycrystalline semiconducting FeSi₂ thin films grown from vapor-deposited Fe/Si multilayers», D.H. Tassis et al., *J. Appl. Phys.* **80**, 962 (1996).
05. «Optical and electrical characterization of high-quality β-FeSi₂ thin films grown by solid phase epitaxy», D. H. Tassis et al., *Appl. Surf. Sci.* **102**, 178 (1996).
06. «Structural and spectroscopic magneto-optic studies of Pt-Ni multilayers», M. Angelakeris et al., *J. Appl. Phys.* **82**, 5640 (1997).
07. «Structural and giant magnetoresistance characterisation of Ag-Co multilayers», M. Angelakeris et al., *J. Magn. Magn. Mater.* **165**, 334 (1997).
08. «Instability of perpendicular-magnetization hysteresis features in Pt-Ni and Pd-[CoPd] multilayers», P. Pouloupoulos et al., *Magnetic Hysteresis in Novel Magnetic Materials*, G. Hadjipanayis, editor, Kluwer Academic Publishers, The Netherlands (1997), pp. 533-536.
09. «HREM study of ultrathin Titanium films», T. Braisaz et al., *Mat. Res. Soc. Symp. Proc. Vol.* **472**, p. 391 (1997).
10. «Low-Frequency Noise in β-FeSi₂/n-Si heterojunctions», D. H. Tassis et al., *Appl. Phys. Lett.* **72**, 713 (1998).
11. «Nanocrystalline thin titanium films grown on potassium bromide single crystals», T. Braisaz et al., *Thin Solid Films* **319**, 140 (1998).
12. «Magnetic anisotropy energy and the anisotropy of the orbital moment of Ni in Ni/Pt multilayers», F. Wilhelm et al., *Phys. Rev.* **B61**, 8647 (2000).
13. «Layer-resolved magnetic moments in Ni/Pt multilayers», F. Wilhelm et al., *Phys. Rev. Lett.* **85**, 413 (2000).
14. «Improved growth and perpendicular anisotropy in Pd-Co multilayers with intentionally alloyed layers», P. Pouloupoulos et al., *Thin Solid Films* **371**, 225 (2000).
15. «X-ray magnetic circular dichroic magnetometry on Ni/Pt multilayers», P. Pouloupoulos et al., *J. Appl. Phys.* **89**, 3874 (2001).
16. «GMR study leading to sensor fabrication on Ag-Co multilayers», M. Angelakeris et al., *Sensors and Actuators A* **91**, 180 (2001).
17. «Systematics of the induced magnetic moments in 5d layers and the violation of the third Hund's rule», F. Wilhelm, P. Pouloupoulos, H. Wende, A. Scherz, K. Baberschke, M. Angelakeris, N.K. Flevaris and A. Rogalev: *Phys. Rev. Lett.* **87**, 207202 (2001).
18. «Study of the magnetoresistance mechanisms in Pd-Ni multilayer system», M. Angelakeris and N.K.Flevaris: *Phys. Stat. Sol. (a)* **189**, 433 (2002).
19. «Temperature-dependent magnetizations and anisotropies in Pd-Ni multilayers», E. Th. Papaioannou et al., *Phys. Stat. Sol. (a)* **189**, 717 (2002).
20. «Influence of Pt-doping on structure, magnetic and magnetotransport properties of granular Ag-Co multilayers», M. Angelakeris et al., *J. Magn. Magn. Mater.* **240**, 488 (2002).
21. «Microwave magnetoresistance of Fe/Cr superlattices for current passing perpendicular to the plane of layers», V. V. Ustinov et al., *Phys. Metals Metallogr.* **93**, 422 (2002).
22. «Interface magnetism in 3d/5d multilayers probed by x-ray magnetic circular dichroism», F. Wilhelm et al., *Phys. Stat. Sol. (a)* **196**, 33 (2003).
23. «Giant magnetoresistance response in Ag-Co multilayers and nanoparticles», M. Angelakeris et al., *Sensors and Actuators A*, **106**, 91 (2003).
24. «Anisotropies in ferromagnetic nanoparticles: simulation and experimental approach», O. Crisan, M. Angelakeris, N.K. Flevaris, N. Sobal, M. Giersig: *Sensors and Actuators A* **106**, 130 (2003).
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26. «Magnetism and anisotropy in core-shell nanoparticles», O. Crisan et al., *J. Opt. & Adv. Mater.* **5**, 959 (2003).
27. «Structural, magnetic and spectroscopic magneto-optic property aspects of Pt-Co multilayers with intentionally alloyed layers», P. Pouloupoulos et al., *J. Appl. Phys.* **94**, 7662 (2003).
28. «Fabrication of novel magnetic nanostructures by colloidal bimetallic nanocrystals and multilayers», M. Angelakeris et al., *Materials and Science Engineering C* **23**, 873 (2003).
29. «Element-specific hysteresis loops and the anisotropy of the orbital moment of Pt in Ni/Pt multilayers», P. Pouloupoulos et al., *J. Magn. Magn. Mater.* **272-276**, 317 (2004).
30. «Correlation of structure and magnetism of AgCo nanoparticle arrays», O. Crisan et al., *J. Magn. Magn. Mater.* **272-276**, E1253 (2004).
31. «The influence of patterned substrates on structure and magnetism of Au/Co multilayers», M. Angelakeris et al., *J. Magn. Magn. Mater.* **272-276**, E1317 (2004).
32. «Measurements of the magnetoresistance effect in Co/Pt multilayers grown on patterned substrates», E. Papaioannou et al., *J. Magn. Magn. Mater.* **272-276**, E1323 (2004).
33. «Magnetic nanostructures obtained by colloidal crystallization onto patterned substrates», O. Crisan et al., *J. Magn. Magn. Mater.* **272-276**, E1285 (2004).
34. «Magnetic moment of Au at Au/Co interfaces: A direct experimental determination», F. Wilhelm et al., *Phys. Rev. B* **69**, 220404(R) (2004).
35. «CoCr-based alloys: Pt and Ta induced magnetic moments probed by X-ray magnetic circular dichroism», P. Pouloupoulos et al., *Phys. stat. sol. (a)*, **201** 3243-3246 (2004).
36. «Ni/Pt multilayers: growth and magneto-optics», E. Th. Papaioannou et al., *Phys. stat. sol. (c)* **1**, No. **12**, 3324–3327 (2004).
37. «Monte Carlo simulation study of magnetic behavior of core-shell bimetallic nanoparticles», O. Crisan et al., *Phys. stat. sol. (c)* **1**, No. **12**, 3760–3763 (2004).
38. «Growth and optical absorption of thin ZnSe films», P. Pouloupoulos et al., *Journal of Physics: Conference Series* **10** 259–262 (2005).
39. «Magnetic properties of nanostructured materials: Monte Carlo Simulation and Experimental Approach for Nanocrystalline Alloys and Core-Shell Nanoparticles», O. Crisan et al., *NATO Science Series II: Mathematics, Physics and Chemistry* **184**, Springer Verlag (2005) pp. 253-266.
40. «Strong quantum confinement effects in thin zinc selenide films», S. Baskoutas et al., *Chem. Phys. Lett.* **417** 462–465 (2006).
41. «Critical radius for exchange bias in naturally oxidized Fe nanoparticles», C. Martínez-Boubeta et al., *Phys. Rev. B* **74** 054430 (2006).
42. «Structure effects on the magnetism of AgCo nanoparticles», O. Crisan et al., *Acta Materialia* **54** 5251–5260 (2006).
43. «Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition», K. Simeonidis et al., *J. Magn. Magn. Mater.* **316**, Issue 2, e1-e4 (2007).
44. «Magnetism and magneto-optics of nanocrystalline Ni/Pt multilayers grown by e-beam evaporation at room temperature», E. Th. Papaioannou et al., *J. Appl. Phys.* **101** 023913 (2007).
45. «Hybrid approach to the synthesis of FePt/Fe₃B nanocomposite magnets», O. Crisan et al., *J. Opt. & Adv. Mater.* **9**, 2734 (2007).
46. «Electromagnetic waves penetration and magnetic properties of AgPt/Co nanostructures», A. Rinkevich et al., *J. Magn. Magn. Mater.* **317**, 15-19 (2007).

47. «Structural, magnetic and magneto-optical properties of nanocrystalline face centered cubic Co₇₀Cr₃₀/Pt multilayers with perpendicular magnetic anisotropy», E. Th. Papaioannou et al., *J. Nanosci. Nanotech.* **7** 4278–4284 (2007).
48. «Growth modes of nanocrystalline Ni/Pt multilayers with deposition temperature», V. Karoutsos et al., *J. Appl. Phys.* **102** 043525 (2007).
49. «Oxidation process of Fe nanoparticles», K. Simeonidis et al., *Mod. Phys. Let. B* **21** 1143 (2007).
50. «Effect of air exposure on structural and magnetic features of FeCo nanoparticles», S. Mourdikoudis et al., *Mod. Phys. Let. B* **21** 1161(2007).
51. «Annealing effect on the induced magnetism of Platinum in FePt nanoparticles», F. Wilhelm et al., *Mod. Phys. Let. B* **21** 1189 (2007).
52. «Magnetic moments of Fe and Y in the FeY glass forming system», P. Pouloupoulos et al., *J. Non-crystal. sol.* **354** 587–591 (2008).
53. «Magnetic, magneto-optic and magnetotransport properties of nanocrystalline Co/Au multilayers with ultrathin Au interlayers», E. Th. Papaioannou et al., *J. Nanosci. Nanotech.* **8** 4323–4328 (2008).
54. «Structural and magnetic features of heterogeneously nucleated Fe-oxide nanoparticles», K. Simeonidis et al., *J. Magn. Magn. Mater.* **320** (9) 1631–1638 (2008).
55. «CoCr/Pt multilayers with adjustable perpendicular anisotropy», E. Th. Papaioannou et al., *J. Appl. Phys.* **103** 093905-1-7 (2008).
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57. «Thermal treatment effects in the self-assembly of FePt nanoparticle arrays», K. Simeonidis et al., *J. Magn. Magn. Mater.* **320** (21) 2665-2671 (2008).
58. «Impact of synthesis parameters on structural and magnetic characteristics of Co-based nanoparticles», S. Mourdikoudis et al., *J. Nanopart. Res.* **11**,1477-1484 (2009).
59. «Magnetic Force Microscopy on Co/Pt multilayers», V. Karoutsos et al., *Solid State Phenomena* **152-153** 241-244 (2009).
60. «Controlling the crystal structure of Ni nanoparticles by the use of alkylamines», S. Mourdikoudis et al., *J. Magn. Magn. Mater.* **321**, 2723–2728 (2009).
61. «Tailoring the morphology of Co_xPt_{1-x} magnetic nanostructures», S. Mourdikoudis et al., *J. Magn. Magn. Mater.* **321**, 3120-3125 (2009).
62. «Influence of multilayer modulation on structural and magnetic features in the Pt/Sm-Co system», M. Angelakeris et al., *J. Magn. Magn. Mater.* **321**, 3155–3158 (2009).
63. «Effects of various chemical synthetic routes on structural and magnetic features of Mn–Pt bimetallic nanoparticles», S. Mourdikoudis et al., *Polyhedron* **28**, 3284-3290 (2009).
64. «Self-assembled multifunctional Fe/MgO nanospheres for magnetic resonance imaging and hyperthermia», C. Martinez-Boubeta et al., *Nanomedicine: Nanotechnology, Biology, and Medicine* **6**, Issue 2, 362-370 (2010).
65. «Size-induced effects in wet-chemically synthesized CoPt₃ nanoparticles», S. Mourdikoudis et al., *J. Nanosci. Nanotechn.* **10** pp. 6087-6092 (2010).
66. «Tuning the perpendicular magnetic anisotropy of Co-based layers in multilayered systems», M. Angelakeris et al., *J. Nanosci. Nanotechn.* **10** pp. 6082-6086 (2010).
67. «The effect of composition and structural ordering on the magnetism of FePt nanoparticles», O. Kalogirou et al., *J. Nanosci. Nanotechn.* **10** pp. 6017-6023 (2010).
68. «Field-assisted organization, substrate effects and magnetic behavior of Ag₃₀Co₇₀ core-shell nanoparticles», A.D. Crisan et al., *Solid State Sciences* **12** 1907-1911 (2010).
69. «Influence of dipolar interactions on hyperthermia properties of ferromagnetic particles», D. Serantes et al., *J. Appl. Phys.* **108**, 073918 (2010).
70. «The role of synthetic parameters in the magnetic behavior of relative large hcp Ni nanoparticles», A. Kotoulas et al., *J. Nanopart. Res.* **13**, 1897-1908, (2011).
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72. «Evolution of Nd₂Fe₁₄B nanoparticles magnetism during surfactant-assisted ball-milling», K. Simeonidis et al., *Intermetallics* **19** 589-595 (2011).
73. «Magnetic separation of hematite-coated Fe₃O₄ particles used as arsenic adsorbents», K. Simeonidis et al., *Chemical Engineering Journal* **168** 1008–1015 (2011).
74. «Violation of Hund’s third rule in structurally disordered ferromagnets», V. Kapaklis et al., *Phys. Rev. B* **84** 024411 (2011).
75. «Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias», K. Simeonidis et al., *Phys. Rev. B* **84**, 144430 (2011).
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77. «Adjustable Hyperthermia Response of Self-Assembled Ferromagnetic Fe-MgO Core–Shell Nanoparticles by Tuning Dipole–Dipole Interactions», C. Martinez-Boubeta et al., *Adv. Func. Mater.* **22**, Issue 17, 3737–3744 (2012).
78. «Development of iron-based nanoparticles for Cr(VI) removal from drinking water», K. Simeonidis et al., *EPJ Web of Conferences* **40**, 08007 (2013).
79. «Novel core–shell magnetic nanoparticles for Taxol encapsulation in biodegradable and biocompatible block copolymers: Preparation, characterization and release properties», M. Filippousi et al., *International Journal of Pharmaceutics* **448**, 221– 230 (2013).
80. «Learning from Nature to Improve the Heat Generation of Iron–Oxide Nanoparticles for Magnetic Hyperthermia Applications», C. Martinez-Boubeta et al., *Scientific Reports*, **3**:1652 (2013).
81. «Fe-based nanoparticles as tunable magnetic particle hyperthermia agents», K. Simeonidis et al., *J. Appl. Phys.* **114**, 103904 (2013).
82. «Polyhedral iron oxide core–shell nanoparticles in a biodegradable polymeric matrix: preparation, characterization and application in magnetic particle hyperthermia and drug delivery», M. Filippousi et al., *RSC Advances* **3**, 24367 (2013).
83. «Size and compositionally controlled manganese ferrite nanoparticles with enhanced magnetization», K. Vamvakidis et al., *J. Nanopart. Res.* **15**:1743 (2013).
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