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CURRICULUM VITAE



Foundation for Research & Technology - Hellas

June 2026

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APPENDIX I

DOCTORATE THESIS (DPhil)

[“Physical Properties of Magnetic and \(Super\)Conducting Layered Copper Oxides”](#),

School of Chemistry and Molecular Sciences, University of Sussex, Falmer, Brighton BN1 9QJ, UK.
September, 1993.

PEER-REVIEWED PUBLICATIONS

- Since 2000 a great deal of my disseminated research pertains to projects that are a major part of either a PhD or an MSc thesis supervised by myself and supported by external funds raised with my initiative. In addition, wherever there is a component of work pursued at large-scale facilities, I have been the principal investigator and main proposer that secured the beam time request.

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A. Lappas, A. Kostopoulou, A. Lascialfari, F. Orsini, S.K.P. Velu, and K. Thangavel
"Ferrimagnetic Colloidal Nanoclusters of Maghemite for MRI applications";
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BROADER READERSHIP & OUTREACH / MEDIA COVERAGE

- *Newsroom*: "[Defects in Magnetic Nanoparticles May Improve Cancer Treatment](#)", Alexandros Lappas's collaboration with Brookhaven Lab Scientists (published in *Physical Review X*, 2019), is highlighted by the Lab's media & communications office (February 2020).
- *Media/News*: our research published in the *Physical Review X* is highlighted with the title "[Innovative Therapies with Magnetic Nanocrystals - New Perspectives](#)" by the General Secretariat for Research and Technology (Greece), Newsletter #9, February 2020.
- *News outlets*: the published *Physical Review X* article has been highlighted in *Nanowerk*, as "[How Disorder in Nanocrystals Enables Heat-therapeutic Systems](#)" (24 Jan. 2020), and in *Phys.org*, as "[Researchers Explain How Disorder in Tiny Crystals Enables Heat-therapeutic Systems](#)" (24 Jan. 2020).

Alexandros Lappas

- *Press articles*: “[FORTH in the Battle Against Cancer](#)”, newspaper articles, at local ([NeaKriti](#)) and national ([Kathimerini](#)) levels, showcasing Alexandros Lappas’s Lab research work, with socioeconomic impact (January 2020).
- *Press releases*: Alexandros Lappas was selected to receive a competitive U.S. Office of Naval Research Global ([ONRG](#)) [grant award](#). The achievement was announced through regional media ([NeaKriti](#), [CRETALIVE](#), [PATRIS](#), [MAXITISTHRAKIS](#)) (October 2017).
- *Press releases*: “Alexandros Lappas, Recipient of a Fulbright Award”, Broadcasted on-line by Greek newsagents, including: [CRETALIVE](#); CandiaNEWS (July 2016).
- *Research Highlights*: “[Alexandros Lappas, Research Director at FORTH, Receives a Prestigious Fulbright Award](#)”; FORTH’s web-site explains the theme of our research that has been recognized for its academic excellence by the Fulbright Foundation – Greece (May 2016).
- *Press article*: Alexandros Lappas, a city of Xanthi born scientist, innovates in “nanomedicine”; published in the daily newspaper [EMPROS](#) (February 2016).
- *Project*: “[Nanoclusters of Magnetic Nanoparticles as Multifunctional Agents for the Development of Biological Diagnostic and Therapeutic Applications](#)”; my team’s groundbreaking proposal (#16890 – Applied Research top 20) has been shortlisted in the “Greece Innovates” («Η ΕΛΛΑΔΑ ΚΑΙΝΟΤΟΜΕΙ») 3rd *Applied Research & Innovation Competition* (April 2015); our candidacy has received important coverage in a Sunday newspaper supplement (e.g. [KATHIMERINI-K](#), 8.11.2015, #649, p. 52).
- *Article*: “[On the Inhomogeneous Ground State of a Triangular Antiferromagnet](#)” research at IESL-FORTH selected by the ESRF Directors of Research to be included in the *ESRF HIGHLIGHTS* (published by the European Synchrotron Radiation Facility), chapter in Materials Science, p. 118-119 (December 2014).
- *Article*: “[A Novel Magnetic Material in the First Line of Medical Diagnosis](#)” research at IESL-FORTH; in *Innovation, Research & Technology* (published by the National Documentation Centre – EKT), issue 96, p. 11 (June - August 2014).
- *Press release*: “[Magnetic Materials Pushing the Frontiers of Medical Diagnostics](#)”, R&D work with socio-economic impact (Jun 2014).

Broadcasted on-line by a number of Greek newsagents; e.g., NeaKriti, [In.gr](#), [News.gr](#):
“Nanomaterials improve magnetic tomography”
- *Press release*: “[A Novel Inhomogeneous State of Matter](#)”, R&D work with impact on the understanding of fundamental physical mechanisms (Feb 2014).

Broadcasted on-line by Greek newsagents; e.g.:

EFSYN.GR: “[The matter in a new state of order](#)”
- *Monograph*: “[Good Things in Small Packages](#)” research in the nanoscale at IESL-FORTH; in *International Innovation* (published by Research Media Ltd), issue 1, pp. 28-30 (2011).

APPENDIX II

ORAL PRESENTATIONS & INVITED LECTURES

From Solid State to Biophysics XII, Cavtat, **Croatia**, 13-20 June **2026**.

A. Lappas

“Orbital-Driven Lattice Instabilities and Spin Fluctuations in Interlayer-Expanded FeSe” - **INVITED**

Advances in Solid State Physics and New Materials, Belgrade, **Serbia**, 19-23 May **2025**.

A. Lappas

“Fluctuating Magnetic Moments Near Superconductivity in Interlayer-Expanded FeSe” - **INVITED**

Scattering Days Workshop, Heraklion, **Greece**, 4 April **2025**

A. Lappas

“Correlation-driven Lattice Distortions in Molecule-intercalated Iron Superconductors” - **INVITED**

Superstripes 2024: Quantum in Complex Matter, Ischia, **Italy**, 24-29 June **2024**.

A. Lappas

“Correlation-driven Lattice Distortions in Molecule-intercalated Iron-chalcogenide Superconductors” - **INVITED**

XXXVII Pan-Hellenic Conference on Solid-State Physics and Materials Science, Thessaloniki, **Greece**, 17-20 September **2023**.

A. Deltsidis, L. Simonelli, G. Vailakis, M. Kaitatzi, G. Kopidakis, and A. Lappas

“Defect Bearing Hyper-expanded Iron-chalcogenides and Their Robust Superconducting State”

Superstripes 2023: Quantum in Complex Matter, Ischia, **Italy**, 26 June – 1 July **2023**.

A. Lappas

“Defect Bearing Hyper-expanded Iron-chalcogenides and Their Robust Superconducting State” - **INVITED**

ICFPM2022 – International Conference on Fine Particle Magnetism, Yokohama, **Japan**, 16-21 October **2022**.

A. Lappas, G. Antonaropoulos, M. Vasilakaki, K.N. Trohidou, V. Iannotti, M. Abeykoon, and E.S. Bozin

“Tweaking Nanoscale Magnetism by Vacancy-induced Correlated Disorder” - **INVITED**

XXXVI Pan-Hellenic conference on Solid-State Physics and Materials Science, Heraklion, **Greece**, 26-28 September **2022**.

M. Kaitatzi, A. Deltsidis, A. Missiul, E.S. Bozin, and A. Lappas

“Fe-based Superconductors: Structural Phase Transitions Tuned by Electronic Fluctuations”

XXXVI Pan-Hellenic conference on Solid-State Physics and Materials Science, Heraklion, **Greece**, 26-28 September **2022**.

G.G. Gkikas, V. Spanou, C.C. Stoumpos, and A. Lappas

“Phase Transitions and Electric Dipole Moments in Hybrid Halide Perovskite Single Crystals”

14th International Conference on Physics of Advanced Materials (ICPAM-14), Dubrovnik, **Croatia**, 8-15 September **2022**.

A. Lappas, A. Deltsidis, L. Simonelli, I.C. Capel, G. Vailakis, G. Kopidakis, A. Krzton-Maziopa, and E.S. Bozin

“Electronic and Local Structure Correlations in Molecule Intercalated Iron-based High-temperature Superconductors” - **INVITED**

Alexandros Lappas

ESRF Information Day: The Use of Synchrotron Radiation in Science, Patras, **Greece**, 6 May **2022**.

A. Lappas

“Total Scattering: A Probe for All Length Scales that Matter” - **INVITED**

IUCr 2021 – 25th Congress of the International Union of Crystallography (Hybrid event); Microsymposium #45: “Frustrated Magnetic Order and Emerging Science”, Prague, **Czech Republic**, 14-22 August **2021**.

A. Lappas, B.A. Frandsen, and E.S. Bozin

“Nanoscale Distortions and Ground State Selection in Geometrically Frustrated Magnets”

Acta Cryst. **2021**, A77, C317.

18th International Conference on Nanosciences & Nanotechnologies (NN21) (Hybrid event); WS2: “Nanomagnetism”, Thessaloniki, **Greece**, 6-9 July **2021**.

A. Lappas, G. Antonaropoulos, M. Vasilakaki, K.N. Trohidou, V. Iannotti, G. Ausanio, M. Abeykoon, I.K. Robinson, and E.S. Bozin

“Defect Tailored Nanoscale Magnetic Functionalities” - **INVITED**

E-MRS 2021 Spring Meeting (Virtual); Symposium S: “Substitution and Recycling of Critical Raw Materials in Optoelectronic, Magnetic and Energy Devices III”, Strasbourg, **France**, 31 May to 4 June **2021**.

A. Lappas

“Tweaking Nanoscale Magnetism by Vacancy-induced Correlated Disorder” - **INVITED**

E-MRS 2021 Spring Meeting (Virtual); Symposium J: “Defect-induced Effects in Nanomaterials”, Strasbourg, **France**, 31 May to 4 June **2021**.

A. Lappas, Antonaropoulos, M. Vasilakaki, K.N. Trohidou, V. Iannotti, G. Ausanio, M. Abeykoon, I.K. Robinson, and E.S. Bozin

“When Favorable Defects Tailor Nanoscale Magnetic Functionality”

2021 NSLS-II & CFN Users’ Meeting (Virtual); Workshop: “Structural Responses to Electronic Order in Quantum Materials from Total Scattering Approaches”, Brookhaven National Lab, Upton, **USA**, 20 May **2021**.

A. Lappas

“Defect-mediated Optimal Nanoscale Magnetic Functionalities” - **INVITED**

2020 Joint European Magnetic Symposia (Virtual); Symposium 1: “Biomagnetism and Biomedical Applications”, Lisbon, **Portugal**, 7-11 December **2020**.

A. Lappas, G. Antonaropoulos, M. Vasilakaki, K.N. Trohidou, V. Iannotti, G. Ausanio, I.K. Robinson, and E.S. Bozin

“Vacancy-induced Correlated Disorder in Colloidal Nanocrystals: a Favorable Tweaking Path for Magnetism-engineered Functionalities”

2020 Joint European Magnetic Symposia (Virtual); Symposium 15: “Strongly Correlated Systems and Frustrated and Disordered Magnetism”, Lisbon, **Portugal**, 7-11 December **2020**.

A. Lappas, B.A. Frandsen, and E.S. Bozin

“Nanoscale Distortions and Ground State Selection in Geometrically Frustrated Magnets”

International Conference on Magnetic Materials and Applications (ICMAGMA-2018), NISER, Bhubaneswar, **India**, 9-13 December **2018**.

A. Lappas

“Magnetism-engineered Iron-oxide Nanoclusters as Theranostic Vehicles” - **INVITED**

7th International Symposium on Transparent Conductive Materials (TCM 2018), Chania, **Greece**, 14-19 October **2018**

A. Lappas

“Colloidal Nanocrystal Architectures with Coupled Magnetic and Optical Functionalities” - **INVITED**

Alexandros Lappas

12th International Conference on Physics of Advanced Materials (ICPAM-12), Heraklion, **Greece**, 22-28 September **2018**.

A. Lappas

“Nanoscale Heterogeneity in Transition Metal Oxides” - **PLENARY SPEAKER**

European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017); Symposium A2: “Innovations in Functional Nanomagnets”, Thessaloniki, **Greece**, 17-22 September **2017**.

G. Antonaropoulos, K. Brintakis, E.S. Bozin, M. Abeykoon, G. Ausanio, V. Iannotti, K. Trohidou, and A. Lappas

“Deciphering the Workings of Magnetic Nanoparticles by Unraveling their Intricate Local Structure” - **HIGHLIGHT TALK**

European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017); Symposium A5: “Colloidal Nanoparticles: Synthesis, Functionalization, and Applications”, Thessaloniki, **Greece**, 17-22 September **2017**.

A. Lappas

“When Colloidal Nanocrystal Clusters Enable Multimodal Diagnosis and Therapy” - **HIGHLIGHT TALK**

European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017); Symposium B5: “Advanced Ceramics”, Thessaloniki, **Greece**, 17-22 September **2017**.

I. Bakaimi, R. Brescia, C.M. Brown, A. Tsirlin, M.A. Green, and A. Lappas

“Hydration-Induced Spin-glass State in a Frustrated Na-Mn-O Triangular Lattice”

APS March Meeting 2017, New Orleans, **USA**, 13-17 March **2017**.

E.S. Bozin, M. Abeykoon, A. Lappas, Y.-S. Hor, J.F. Mitchell, and S.J.L. Billinge

“Local Orbital Fluctuations and t_{2g} Degeneracy Lifting in the Metallic Regime of the CuIr_2S_4 ”

Workshop “Nanostructure in the City”, Columbia University, New York, **USA**, 26 October, **2016**.

A. Lappas

“Multicomponent Colloidal Nanocrystals: Where Structure Matters” - **INVITED**

11th International Conference on Physics of Advanced Materials (ICPAM-11), Cluj-Napoca, **Romania**, 8-14 September **2016**.

A. Lappas

“Tailored Colloidal Nanocrystal Clusters of Iron-oxide for Diagnosis and Therapy” - **PLENARY SPEAKER**

The European Powder Diffraction Conference (EPDIC15); MicroSymposium: “Nanomaterials, Surfaces and Interfaces”, Bari, **Italy**, 12-15 June **2016**.

A. Lappas

“Multicomponent Colloidal Nanocrystals: a Toolbox of Versatile Functionality” - **KEYNOTE SPEAKER**

E-MRS 2016 Spring Meeting; Symposium R: “Multifunctional Nanostructures for Diagnostic and Therapeutic of Diseases”, Lille, **France**, 2-6 May **2016**.

A. Lappas

“Tailored Colloidal Nanocrystal Clusters Enable Strategies for Diagnosis and Therapy” - **INVITED**

TO-BE Spring Meeting 2016; MP1308 Cost Action “Towards Oxide-Based Electronics”, Warwick, **UK**, 6-8 April **2016**.

E. Aza, A. Fernandez-Martinez, M. Ciomaga-Hatnean, G. Balakrishnan and A. Lappas

“Frustrated Two-dimensional Manganites: the Quest for Single Crystals”

TO-BE Spring Meeting 2016; MP1308 Cost Action “Towards Oxide-Based Electronics”, Warwick, **UK**, 6-8 April **2016**.

A. Lappas, A. Zorko and D. Arčon

Alexandros Lappas

“Frustration-induced Nanoscale Inhomogeneity in a Triangular Spin Lattice”

18th Chemistry Postgraduates Conference; Symposium: “Nanotechnology & Nanosciences”, Heraklion, **Greece**, 26-27 March **2016**.

A. Lappas

“Hybrid Nanocrystals: a Toolbox of Versatile Functionality” - **INVITED**

E-MRS 2015 Fall Meeting; Symposium W: “Nanoscale Phase Separations in Spintronic Materials, Superconductors, and Other Systems, Warsaw, **Poland**, 15-18 September **2015**.

A. Lappas, A. Zorko and D. Arčon

“Frustration-induced Nanoscale Inhomogeneity in a Triangular Spin Lattice”

11th International Workshop on Magnetism and Superconductivity at the Nanoscale, Coma-ruga, Spain, 29 June - 3 July **2015**.

A. Lappas

“Frustration-Induced Nanoscale Inhomogeneity in a Triangular Spin Lattice” - **INVITED**

Superstripes 2015, Ischia, **Italy**, 13 - 18 June **2015**.

A. Lappas, A. Zorko, and D. Arčon

“Emergence of an Inhomogeneous State in a Triangular Antiferromagnet” - **INVITED**

Complex Magnetic Nanostructures (COMANA) International Workshop, Aegina, **Greece**, 2-5 June **2015**.

A. Lappas

“Hierarchical Length-scale Interactions in Colloidal Maghemite Nanocrystal Clusters” - **INVITED**

Workshop on the European Spallation Source and the Opportunities Offered for Greek Participation, Athens, **Greece**, 9 December **2014**.

A. Lappas

“Quantum Materials and Magnetism: where Structure Matters” - **INVITED**

30th Panhellenic Conference on Solid State Physics & Materials Science, Heraklion, **Greece**, 21-24 September **2014**.

K. Brintakis, A. Kostopoulou, S. Psycharakis, A. Ranella, M. Vasilakaki, K.N. Trohidou, A.P. Douvalis, S.K.P. Velu, L. Bordonali, A. Lascialfari, D. Sakellari, K. Simeonidis, M. Angelakeris, I. Athanassakis, and A. Lappas.

“Maghemite Nanoclusters: A Promising Multifunctional Material for Biomedicine”

7th International Conference of the Hellenic Crystallographic Association & Current Trends in Structural Biology, Heraklion, **Greece**, 19-21 September **2014**.

A. Lappas

“Frustration-induced Structural Complexity: An Insight by Powder Diffraction” - **INVITED**

International Symposium on Advanced Nanoporous and Nanostructures Materials, Heraklion, **Greece**, 3-4 September **2014**.

A. Lappas

“Colloidal Magnetic Nanoclusters: From Photonic Crystals to Theranostics”

Superstripes 2014, Erice, **Italy**, 25-31 July **2014**.

A. Lappas, A. Zorko, O. Adamopoulos, M. Komelj, D. Arčon, E. Aza, A.M. Abakumov, A.A. Tsirlin, I. Bakaimi, and G. Van Tendeloo

“Spin-driven Ferroelectricity in Two-dimensional Manganites” - **INVITED**

Alexandros Lappas

SPIE Photonics West: Colloidal Nanoparticles for Biomedical Applications, San Francisco, **USA**, 1-4 February **2014**.

A. Kostopoulou, K. Brintakis, A. Lascialfari, M. Angelakeris, M. Vasilakaki, K. Trohidou, A.P. Douvalis, S. Psycharakis, A. Ranella, L. Manna, and A. Lappas

“Iron-oxide Colloidal Nanoclusters: from Fundamental Physical Properties to Diagnosis and Therapy” - **INVITED**

2013 Joint European Magnetic Symposia, Rhodes, **Greece**, 25-30 August **2013**.

A. Zorko, M. Komelj, O. Adamopoulos, D. Arcon, and A. Lappas

“Magnetostuctural Phase Separation Induced by Geometrical Frustration”

2013 Joint European Magnetic Symposia, Rhodes, **Greece**, 25-30 August **2013**.

K. Brintakis, A. Kostopoulou, M. Vasilakaki, K.N. Trohidou, and A. Lappas

“Maghemite Nanoclusters: Static, Dynamic Magnetic Properties and Monte Carlo Simulations”

2013 Joint European Magnetic Symposia, Rhodes, **Greece**, 25-30 August **2013**.

A. Kostopoulou, F. Thetiot, I. Tsiaoussis, M. Androulidaki, P.D. Cozzoli, and A. Lappas

“Interface-mediated Exchange-bias in Fluorescent ZnO-Fe@Fe_xO_y Colloidal Hybrid Nanocrystals”

8th International Conference on Fine Particle Magnetism, Perpignan, **France**, 24-27 June **2013**.

A. Kostopoulou, F. Thétiot, M. Androulidaki, A. Lappas, I. Tsiaoussis. and P.D. Cozzoli

“Interface-Engineered Fluorescent-Ferromagnetic ZnO-Fe@Fe_xO_y Nanocrystals”

Superstripes 2013, Ischia, **Italy**, 27 May - 1 June **2013**.

A. Zorko, O. Adamopoulos, M. Komelj, D. Arçon, and A. Lappas

“Frustration-Induced Magnetostuctural Phase-Separation in a Triangular Spin Lattice” - **INVITED**

4th International Congress Nanotechnology, Medicine & Biology (BioNanoMed), Krems, **Austria**, 13-15 March **2013**.

A. Kostopoulou, A. Lappas, K. Brintakis, S. K. P. Velu, T. Kalaivani, F. Orsini, A. Lascialfari, A. P. Douvalis, D. Sakellari, K. Simeonidis, M. Angelakeris and L. Manna

“Colloidal Nanoclusters: from Materials Design to Theranostic Applications”

6th International Conference of the Hellenic Crystallographic Association, Athens, **Greece**, 28-29 September **2012**.

I. Bakaimi, O. Adamopoulos, C. Stock, M.A. Green, and A. Lappas

"Frustrated Manganese Oxide Systems: The Diversity of Crystal Structures Towards Novel Magnetic Behaviours"

2012 Joint European Magnetic Symposia, Parma, **Italy**, 9-14 September **2012**.

A. Kostopoulou, A. Lappas, K. Brintakis, A. Douvalis, S. Velu, K. Thangavel, F. Orsini, A. Lascialfari, D. Sakellari, K. Simeonidis, M. Angelakeris, and L. Manna

“Ferrimagnetic Maghemite Colloidal Nanocrystal Clusters: From Material Design to Imaging Hyperthermia Treatment”

2012 Joint European Magnetic Symposia, Parma, **Italy**, 9-14 September **2012**.

B. Kundys, A. Lappas, M. Viret, V. Kapustianyk, V. Rudyk, and C. Simon

“Order-Disorder Mediated Ferroelectricity in Dominantly Ferromagnetic Hybrid Organic-Inorganic Perovskites”

4th Workshop on Current Trends in Molecular and Nanoscale Magnetism, Ouranopolis, **Greece**, 10-14 June **2012**.

A. Lappas

“Ferrimagnetic Assemblies of Maghemite Nanocrystals as Effective MRI Contrast Enhancing Agents” - **INVITED**

3rd International Conference on Superconductivity and Magnetism, Istanbul, **Turkey**, 29 April - 4 May **2012**.
A. Lappas

"Colloidal Nanocrystal Architectures with Coupled Magnetic and Optical Functionalities" - **INVITED**

Wilhelm and Else Heraeus-Seminar: New Routes to Single-Phase Multiferroics, Bad Honnef, **Germany**, 23-25 April **2012**.

B. Kundys, A. Lappas, M. Viret, V. Kapustianyk, V. Rudyk, S. Semak, Ch. Simon, and I. Bakaimi
"Hydrogen-bond Ordering Mediated Multiferroicity in Hybrid Organic Inorganic Perovskites"

19th Annual International Conference on Composites and Nano Engineering, Shanghai, **China**, 24-30 July **2011**.

P. Li, A. Lappas, R. Lavieville, Y. Zhang, and R. Krahne
"Optoelectrical Properties of CdSe-Au Nanorod Networks"

19th Annual International Conference on Composites and Nano Engineering, Shanghai, **China**, 24-30 July **2011**.

A. Lappas, A. Kostopoulou, F. Thetiot, I. Tsiaoussis, M. Androulidaki, and P.D. Cozzoli
"Exchange Bias in Hybrid Nanocrystals of Zinc Oxide"

5th European Conference on Neutron Scattering, Prague, **Czech Republic**, 17-22 July **2011**.

M. Giot, C. Stock, L.C. Chapon, J. Androulakis, O. Adamopoulos, J. Taylor, P.G. Radaelli, C.M. Brown, M.A. Green, and A. Lappas
"Magnetic Order and Confined Excitations in the Spin-2 Triangular Lattice α -NaMnO₂"

8th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, **Greece**, 12-15 July **2011**.

A. Kostopoulou, K.P.V. Sabareesh, T. Kalaivani, A. Lascialfari, A.P. Douvalis, L. Manna, and A. Lappas
"Magnetic Colloidal Nanoclusters as MRI Contrast Agents"

Biomaterials and Bionanomaterials: Recent Advances and Safety-Toxicology Issues, Heraklion, **Greece**, 5-12 May **2011**.

A. Kostopoulou, K.P.V. Sabareesh, T. Kalaivani, A. Lascialfari, A. Douvalis, L. Manna, and A. Lappas
"Development of Maghemite Colloidal Nanoclusters as MRI Contrast Agents"

4th North America - Greece - Cyprus Workshop on Paramagnetic Materials, Patras, **Greece**, 14-18 June **2011**.

A. Lappas

"Nanocrystal Architectures with Synergetic Magnetic and Optical Functionalities" - **INVITED**

XXVI Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, **Greece**, 26-29 September **2010**.

I. Bakaimi, O. Adamopoulos, M.A. Green, C. Stock, and A. Lappas,
"Frustration and Induced Magnetoelectric Coupling in NaMnO₂ Polymorphs"
Distinction, for best oral presentation by the 1st author (PhD student).

XXVI Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, **Greece**, 26-29 September **2010**.

F. Thetiot, A. Kostopoulou, I. Tsiaoussis, M. Androulidaki, P.D. Cozzoli, and A. Lappas,
"Magnetic and Fluorescent ZnO/Iron Oxide Hybrid Nanocrystals"

Trends in Spintronics and Nanomagnetism, Lecce, **Italy**, 23-27 May **2010**.

F. Thetiot, A. Kostopoulou, I. Tsiaoussis, M. Androulidaki, P.D. Cozzoli, and A. Lappas
"Coupled ZnO/Iron Oxide Fluorescent Ferromagnetic Nanocrystals"

Alexandros Lappas

Magnetic Resonance in Highly Frustrated Magnetic Systems, Kranjska Gora, **Slovenia**, 1-4 February **2010**.
A. Lappas

"Muons see the Order in the Frustrated Spin-2 Triangular Lattice α -NaMnO₂"

9th FORTH Retreat, Loutra Kyllinis, **Greece**, 9-10 October **2009**.

A. Lappas

"Magnetically Responsive Photonic Nanocrystals" - **INVITED**

Emerging Trends & Novel Materials in Photonics, Delphi, **Greece**, 7-9 October **2009**.

A. Kostopoulou and A. Lappas

"Magneto-Optical Properties of Iron Oxide Nanoclusters"

XXV Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, **Greece**, 20-23 September **2009**.

A. Kostopoulou and A. Lappas,

"Magneto-Optical Properties of Iron Oxide Nanoclusters"

4th Conference of the Hellenic Crystallographic Association, Athens, **Greece**, 26-27 September **2008**.

A. Lappas

"Order Against Frustration in Delafossite Triangular Lattices",

1st International Conference from Nanoparticles & Nanomaterials to Nanodevices & Nanosystems, Halkidiki, **Greece**, 15-19 June **2008**.

A. Kostopoulou and A. Lappas,

"Syntheses and Characterization of Water-Soluble Magnetic Nanoclusters"

5th International Conference "New Research Trends in Material Science" ARM-5, Sibiu, **Romania**, 5-7 September **2007**.

A. Lappas, D. Perisinakis, D. Gray, E. Pomjakushina, and K. Conder

"Ultrafast Photo-magnetic Control of Spins in Antiferromagnets" - **INVITED**

2nd North America-Greece-Cyprus Workshop on Paramagnetic Materials, Syros, **Greece**, 18-21 June **2007**.

M. Giot, A. Lappas, J. Androulakis, Laurent Chapon, M.A. Green, and C.M. Brown

"Surprises in an Anisotropic Triangular Spin System" - **INVITED**

3rd Conference of the Hellenic Crystallographic Association, Patras, **Greece**, 22-24 September **2006**.

A. Lappas, O. Adamopoulos, J. Androulakis, A. Zorko, D. Arcon, H. Kageyama, V. Pomjakushin, and R. Ibberson

"Lattice distortions in the low-temperature phase of the frustrated two-dimensional spin gap system SrCu₂(BO₃)₂. "

7th SINQ Users' Meeting, Paul Scherrer Institute, Villigen, **Switzerland**, 27 January **2005**.

A. Lappas

"Correlated Electron Lattices under External Stimuli"

3rd Slovenian Workshop on Nanoscience and Nanotechnology (SLONANO 2004), Ljubljana, **Slovenia**, 21-22 October **2004**.

A. Lappas, A. Zorko, E. Wortham, R.N. Das, E.P. Giannelis, P. Cevc, and D. Arcon

"Hybrid Manganese Perovskite Crystals for Poly(dimethylsiloxane) Nanocomposites: Morphology, Static Magnetic Properties and Pinned Solitons"

XX Pan-Hellenic Conference on Solid State Physics, Ioannina, **Greece**, 26-29 September **2004**.

A. Lappas,

"M[(N(CN)₂)₂ Rutile Molecular Magnets: Three-dimensional Crystal Assembly and Controlled Properties"

Alexandros Lappas

21st European Crystallographic Meeting, Durban, **S. Africa**, 24-25 August **2003**.

A. Lappas, C.J. Nuttall, and V. Pomjakushin

"Pressure Influence on Structure-Property Relations of Ternary Metal Chalcogenides"

1st African Neutron Diffraction Meeting (Modern Neutron Diffraction & Applications), Amanzingwe, Broederstroom, **S. Africa**, 21-22 August **2003**.

A. Lappas

"Relations of Stoichiometry to Structure and Structure to Properties by Neutron Diffraction in Low-Dimensional Electronic Materials" - **INVITED**

2003 MRS Spring Meeting, San Francisco, CA, **USA**, 21-25 April **2003**.

E. Wortham, A. Lappas, R.N. Das, E.P. Giannelis, A. Zorko, and D. Arcon

"Hybrid Perovskites for Polymer-Based Magnetically Active Nanocomposites"

19th Pan-Hellenic Chemistry Conference, Heraklion, **Greece**, 6-10 November **2002**.

E. Wortham, A. Zorko, D. Arcon, R.N. Das, E.P. Giannelis, and A. Lappas,

"Two-Dimensional Magnetism in Hybrid Perovskite Nanocomposites"

9th International Conference on Muon Spin Rotation/ Relaxation/ Resonance, Williamsburg, VA, **USA**, 3-7 June **2002**.

A. Lappas, A. Schenck, and K. Prassides,

"Spin-Freezing in the $S=1/2$ Two-Dimensional Spin-Gap Systems $\text{SrCu}_{2-x}\text{Mg}_x(\text{BO}_3)_2$ ($x=0, 0.04, 0.12$)"

XVI Pan-Hellenic Conference on Solid State Physics, Nafplio, **Greece**, 17-20 September **2000**.

A. Lappas, B. Alexandrakis, J. Giapintzakis, I. Maurin, K. Prassides, and A. Schenck,

"Spin-Vacancy Induced Magnetic Ordering and $\mu^+\text{SR}$ Spectroscopy in Low-Dimensional Quantum Spin Systems"

European Research Conference: Chemistry and Physics of Multifunctional Materials, San Feliu de Guixols, **Spain**, 21-26 September **1999**.

A. Lappas and K. Prassides,

" C_{60} Bonding Interactions in Small Lattice Constant Alkali Fullerides"

Organised by the European Science Foundation; F. Zerbetto (Bologna, Italy) and W.-J. Buma (Amsterdam, The Netherlands).

Nanotechnology in Carbon and Related Materials, Univeristy of Sussex, Brighton, **UK**, 9-11 September **1998**.

A. Lappas, S. Margadonna, C.M. Brown, K. Kordatos, and K. Prassides,

"Magnetism and Dynamics in $(\text{NH}_3)\text{K}_3\text{C}_{60}$ "

Organised by M. Heggie, M. Terrones, and P. Minshall on behalf of the British Carbon Group.

XIII Pan-Hellenic Conference on Solid State Physics, Perea, Thessaloniki, **Greece**, 21-23 September **1997**.

A. Lappas, M. Kosaka, K. Tanigaki and K. Prassides,

"Phase Transitions and Orientational Order of C_{60} Molecules in A_1C_{60} Alkali Fullerides",

XII Pan-Hellenic Conference on Solid State Physics, Heraklion, Crete, **Greece**, 15-18 September **1996**.

Alexandros Lappas and Kosmas Prassides,

"Electronic Structure and Magnetism in Superconducting (HIGH- T_c) Copper Oxides",

187th Meeting of the Electrochemical Society, Reno, **USA**, 21-26 May **1995**.

A. Lappas, M. Kosaka, K. Tanigaki, and K. Prassides,

"Orientational Order in AC_{60} Alkali Fullerides"

International Winterschool on Electronic Properties of Novel Materials: Fullerides and Fullerooids, Kirchberg, **Austria**, 5-12 March **1995**.

A. Lappas, K. Prassides, D. Arcón, R. Blinc, A. Schenck, and C.S. McMennamin
"Spontaneous Magnetic Ordering in the Charge-Transfer Salt (TDAE)C₆₀" - **INVITED**

AWARDED PRESENTATIONS

1998: First prize for best oral presentation in a *NATO Advanced Study Institute on: Muon Science*, (University of St. Andrews, St. Andrews, UK, 17-28 July 1998); NATO ASI/Scottish Universities Summer Schools in Physics (SUSSP51).

1996: First prize for best oral presentation in *the XII Pan-Hellenic Conference on Solid State Physics* (Heraklion, 15-18 September 1996); Condensed Matter Science and Technology Council, GREECE.

SEMINARS AT UNIVERSITIES & RESEARCH CENTRES (AFTER INVITATION)

Department of Materials Science and Engineering, University of Crete, Heraklion, Greece; December 2025.
"Superconductivity Amidst Magnetism Climbing High in Two-dimensional Iron-based Materials", **Colloquium**.

Department of Chemistry, Northwestern University, Evanston, USA; December 2016.
"When Colloidal Nanocrystal Clusters Enable Multimodal Diagnosis and Therapy"

National Synchrotron Light Source II, Brookhaven National Laboratory, Upton, USA; December 2016.
"A Total Scattering Study of Multicomponent Iron-oxide Nanocrystals", **Friday Lunchtime Seminar Series**.

Condensed-Matter Physics & Materials Science Division, Brookhaven National Laboratory, Upton, USA; December 2016.
"Complexity in Spin-frustrated Rock-salt Manganites", **CMP-MS Seminar Series**.

Spallation Neutron Source, Oak Ridge National Laboratory, Oak Ridge, USA; November 2016.
"Complexity in Spin-frustrated Rock-salt Manganites", **Neutron Sciences Directorate Seminar**.

Materials Science Division, Lawrence Berkeley Lab, Berkeley, USA; November 2016.
"Tailored Colloidal Nanocrystal Clusters of Iron-oxide for Diagnosis and Therapy", **ALS/CXRO Seminar Series**.

National High Magnetic Field Laboratory, Tallahassee, USA; October 2016.
"Frustration-induced Structural Complexity in Layered Rock-salt Manganites"

Department of Physics, Florida International University, Miami, USA; October 2016.
"Tailored Colloidal Nanocrystal Clusters of Iron-oxide for Diagnosis and Therapy"; **Colloquium**.

Department of Physics, University of Columbia, New York, USA; October 2016;
"Frustration-induced Structural Complexity in Rock-Salt Manganites with Triangular Topology"

School of Physical Sciences, University of Kent, Canterbury, UK; February 2016.
"Frustration-induced Nanoscale Inhomogeneity in a Triangular Spin Lattice"; **Colloquium**.

ISIS Facility, STFC Rutherford Appleton Laboratory, Harwell, UK; February 2016;
"Frustration-induced Nanoscale Inhomogeneity in a Triangular Spin Lattice"

Alexandros Lappas

*Institut Charles Gerhardt Montpellier, Université de Montpellier, Montpellier, **France**; November 2015;*
"Tailored Colloidal Nanocrystal Clusters of Iron-oxide for Diagnosis and Therapy"; **Colloquium.**

*Department of Physics, University of Bath, Bath, **UK**; July 2015.*
"Colloidal Nanocrystals: A Toolbox of Versatile Functionality"; **Colloquium.**

*Institute of Chemical Engineering Sciences, FORTH, Patras, **Greece**; May 2015.*
"Colloidal Nanocrystals: A Toolbox of Versatile Functionality"; **Colloquium.**

*Department of Physics and Astronomy, Stony Brook University, Stony Brook, NY, **USA**; June 2014.*
"Frustration-induced Phase Separation in a Triangular Spin Lattice"

*Center for Functional Nanomaterials, Brookhaven National Laboratory, Upton, NY, **USA**; June 2014.*
"Iron-oxide Colloidal Nanoclusters: Interaction Mechanisms and Theranostics"

*Condensed-Matter Physics & Materials Science Division, Brookhaven National Laboratory, Upton, NY, **USA**; June 2014.*
"Frustration-induced Phase Separation and Magnetoelectric Effects in a Triangular Spin Lattice"

*The Molecular Foundry, Lawrence Berkeley National Laboratory, Berkeley, **USA**; February 2014.*
"Properties and Applications of Surface-stabilized Iron-oxide Magnetic Nanoclusters"

*Key Laboratory of Transparent Opto-Functional Inorganic Materials Crystal Research Center, Shanghai Institute of Ceramics, Shanghai, **China**; July 2011.*
"Magnetism at Different Length Scales"

*Center for Optoelectronics Materials and Devices, Department of Physics, Zhejiang Sci-Tech University, Xiasha Higher Education Zone, Hangzhou, **China**; July 2011.*
"Magnetism at Different Length Scales"

*NIST Center for Neutron Research, 100 Bureau Drive, Gaithersburg, **USA**;*
November 2006.
"Low-temperature topotactic intercalation of a metallic dense host matrix chalcogenide: structural and electronic properties of $\text{Li}_x\text{Mo}_2\text{SbS}_2$ ($0 \leq x < 0.7$)"

*Centre for Science at Extreme Conditions, The University of Edinburgh, Mayfield Rd., Edinburgh, **UK**; June 2006.*
"Intercalation Reactions: Tailoring Geometric and Electronic Structure"

*Department of Physics, University of Crete, Heraklion, **Greece**; March 2005.*
"Probing the Ingredients of Magnetism in Molecule-Based Materials"

*ISIS Neutrons and Muons Division, Rutherford Appleton Laboratory, Chilton, Didcot, **UK**; January 2005.*
"Can we Make Magnets from Molecules"

*Department of Materials Science and Technology, University of Ioannina, Ioannina, **Greece**; December 2003.*
"Nanoporous Manganese Oxides for Magnetic and Cathodic Materials"

*Department of Materials Science and Technology, University of Ioannina, Ioannina, **Greece**; October 2001.*
"Crystal Structure and Magnetism in Low-dimensional $\text{PbNi}_{2-x}\text{A}_x\text{V}_2\text{O}_8$ ($\text{A} = \text{Mg}^{2+}, \text{Co}^{2+}$) Compounds"

*Institute of Materials Science, National Centre for Scientific Research - DEMOKRITOS, Athens, **Greece**;*
March 2001.
"Magnetic Correlations in Low-Dimensional Spin Systems"

Alexandros Lappas

Institute of Electronic Structure and Laser, Foundation for Research & Technology, Heraklion, Crete, Greece; September 2000 / 1st Workshop on Collaborative Actions in Computational Materials Science.
"Spin-Vacancy Induced Magnetism in Low-Dimensional Quantum Spin Systems"

School of Chemistry, Physics and Environmental Sciences, University of Sussex, Falmer, Brighton, UK; September 1998.
"Synthesis and Characterisation of Superconducting / Magnetic Fullerene-Based Materials"

Institute of Electronic Structure and Laser, Foundation for Research & Technology, Heraklion, Crete, Greece; January 1996.
"Structural and Magnetic Instabilities in Layered Copper Oxides and Fulleride Salts"

Department of Chemistry, University of Crete, Heraklion, Crete, Greece; December 1995.
"Aspects of Modern Materials: Interplay of Magnetism and Superconductivity in Layered Copper Oxides and Novel Magnetic Phase-Changes in Fullerene Intercalation Compounds"

School of Chemistry & Molecular Sciences, University of Sussex, Falmer, Brighton, UK; March 1993.
"Muon Spin Relaxation (μ^+ SR) in Layered Cuprate Systems"

School of Chemistry & Molecular Sciences, University of Sussex, Falmer, Brighton, UK; November 1992.
"Neutron Scattering Studies of High- T_c Related Complex Oxides"

APPENDIX III

CONFERENCE PAPERS IN SPECIAL VOLUMES

[13] A. Kostopoulou, K. Brintakis, A. Lascialfari, M. Angelakeris, M. Vasilakaki, K. Trohidou, A.P. Douvalis, S. Psycharakis, A. Ranella, L. Manna, and A. Lappas
"Iron-oxide Colloidal Nanoclusters: from Fundamental Physical Properties to Diagnosis and Therapy"
(Invited paper)
Proceedings of the SPIE – Progress in Biomedical Optics and Imaging, Vol. 8955, **2014**, 895517 (10 pp).
DOI: 10.1117/12.2039264

[12] I. Bakaimi, A. Abakumov, M.A. Green, and A. Lappas
"Crystal, Magnetic and Dielectric Studies of the 2D Antiferromagnet: β -NaMnO₂"
Proceedings of the SPIE – The International Society for Optical Engineering, Vol. 8987, **2014**, 898716 (7 pp).
DOI: 10.1117/12.2036937

[11] E. Kasotakis, A. Kostopoulou, M. Spuch-Calvar, M. Androulidaki, N.T. Pelekanos, A.G. Kanaras, A. Mitraki, and A. Lappas
"Thin Film Mesoscale Organization of Nanoparticles by using Biomolecular Peptide Tools"
Proceedings of the SPIE – Progress in Biomedical Optics and Imaging, Vol. 8955, **2014**, 89551W (8 pp).
DOI: 10.1117/12.2048292

[10] P. Li, A. Lappas, R. Lavieville, Y. Zhang, and R. Krahne
"Optoelectrical Properties of CdSe-Au Nanorod Networks"
World Journal of Engineering, 8 [Suppl. 1], **2011**, 669.

[9] A. Lappas, A. Kostopoulou, F. Thetiot, I. Tsiaoussis, M. Androulidaki, and P.D. Cozzoli
"Exchange Bias in Hybrid Nanocrystals of Zinc Oxide"
World Journal of Engineering, 8 [Suppl 1], **2011**, 651.

- [8] A. Kostopoulou, I. Tsiaoussis, and A. Lappas,
"Magneto-optical Properties of Iron Oxide Nanoclusters"
in *Emerging Trends and Novel Materials in Photonics*, Eds.: N.A. Vainos, S. Pissadakis, S. Couris, E. Paspalakis, and I. Koutselas, American Institute of Physics, Melville, NY; CP 1288, **2010**, 26-29.
- [7] A. Lappas, E. Aslanis, K. Prassides, A.N. Fitch, and M. Hanfland,
"Low Symmetry Structures in the Li-Rb-C₆₀ Phase Field"
in *Electronic Properties of Novel Materials: Science and Technology of Molecular Nanostructures*, Eds.; H. Kuzmany, J. Fink, M. Mehring, and S. Roth, American Institute of Physics, Woodbury, NY; CP 486, **1999**, 52-55.
- [6] S. Margadonna, C.M. Brown, K. Kordatos, A. Lappas, K. Prassides, M. Kosaka, and K. Tanigaki,
"Structural Studies of Sodium and Lithium Fullerides"
in *Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials*, Eds.; K.M. Kadish and R.S. Ruoff, Electrochemical Society, Pennington, NJ, Vol. VI, **1998**, 650-658.
- [5] S. Margadonna, C.M. Brown, A. Lappas, K. Kordatos, K. Tanigaki, and K. Prassides,
"Fulleride Polymerisation at Ambient and Elevated Pressure"
in *Electronic Properties of Novel Materials: Molecular Nanostructures*, Eds.; H. Kuzmany, J. Fink, M. Mehring, and S. Roth, American Institute of Physics, Woodbury, NY; CP 442, **1998**, 327-330.
- [4] M. Terrones, J.P. Hare, K. Hsu, H.W. Kroto, A. Lappas, W.K. Maser, A.J. Pierik, K. Prassides, R. Taylor, and D.R.M. Walton,
"Physico-Chemical Studies on Nanotubes and their Encapsulated Compounds"
in *Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials*, Eds.; K.M. Kadish and R.S. Ruoff, Electrochemical Society, Pennington, NJ, Vol. II, **1995**, 599-620.
- [3] A. Lappas, M. Kosaka, K. Tanigaki, and K. Prassides,
"Orientational Order in AC₆₀ Alkali Fullerides"
in *Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials*, Eds.; K.M. Kadish and R.S. Ruoff, Electrochemical Society, Pennington, NJ, Vol. II, **1995**, 1071-1082.
- [2] K. Prassides, A. Lappas, W. Maser, I. Hirosawa, K. Tanigaki, and J. Mizuki,
"Orientational Disorder in Ternary Lithium Fullerides"
in *Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials*, Eds.; K.M. Kadish and R.S. Ruoff, Electrochemical Society, Pennington, NJ, Vol. I, **1994**, 530-545.
- [1] A. Lappas, K. Prassides, D. Arcón, R. Blinc, A. Schenck, and C.S. McMenamin,
"Spontaneous Magnetic Ordering in the Charge-Transfer Salt (TDAE)C₆₀"
in *Electronic Properties of Novel Materials: Physics and Chemistry of Fullerenes and Derivatives*, Eds.; H. Kuzmany, J. Fink, M. Mehring, and S. Roth, World Scientific, Singapore, **1995**, 480-484.

PAPERS IN SPECIAL VOLUMES OF GREEK CONFERENCES

- [4] E. Wortham, A. Zorko, D. Arcon, R.N. Das, E.P. Giannelis, and A. Lappas,
"Two-Dimensional Magnetism in Hybrid Perovskite Nanocomposites"
19th Pan-Hellenic Chemistry Conference, Heraklion, **Greece**, 6-10 November **2002**.
Conference Proceedings, pp 728-731.
- [3] A. Lappas, B. Alexandrakis, J. Giapintzakis, I. Maurin, K. Prassides, and A. Schenck,
"Spin-Vacancy Induced Magnetic Ordering and μ^+ SR Spectroscopy in Low-Dimensional Quantum Spin Systems"
XVI Pan-Hellenic Conference on Solid State Physics, Nafplio, **Greece**, 17-20 September **2000**.
Conference Proceedings, pp 14-17.

[2] A. Lappas, M. Kosaka, K. Tanigaki and K. Prassides,
"Phase Transitions and Orientational Order of C₆₀ Molecules in A₁C₆₀ Alkali Fullerenes",
XIII Pan-Hellenic Conference on Solid State Physics, Perea, Thessaloniki, **Greece**, 21-23 September **1997**.
in Conference Proceedings.

[1] A. Lappas and K. Prassides,
"Electronic Structure and Magnetism in Superconducting (HIGH-T_c) Copper Oxides",
XII Pan-Hellenic Conference on Solid State Physics, Heraklion, Crete, **Greece**, 15-18 September **1996**.
in Conference Proceedings.

POSTER PRESENTATIONS

- These are contributions made by postgraduate students and postdoctoral fellows supervised in my team.

The European Powder Diffraction Conference (EPDIC18); MicroSymposium-03: "Structure and Dynamics in Disordered Materials with Total Scattering Methods", Padova, **Italy**, 30 August - 2 September **2024**.

M. Kaitatzi, A. Deltsidis, I.C. Berdiell, A. Missiul, E.S. Bozin, and A. Lappas
"Electronically-driven Local Lattice Distortions in Molecule-intercalated Iron-chalcogenide Superconductors"

XXXVII Pan-Hellenic Conference on Solid-State Physics and Materials Science, Thessaloniki, **Greece**, 17-20 September **2023**.

M. Kaitatzi, A. Deltsidis, E.S. Bozin, and A. Lappas
"Electronically-driven Local Lattice Distortions in Molecule-intercalated Iron-chalcogenide Superconductors"

DISTINCTION, Best Poster Presentation.

13th FORTH Retreat, Heraklion, **Greece**, 15-16 July **2022**.

E.D. Koutsouroubi, L. Papadimitriou, Y. Papaharilaou, A. Ranella, and A. Lappas
"Functional Nanoclusters for Multimodal Imaging of Atherosclerosis"

XXXVI Pan-Hellenic conference on Solid-State Physics and Materials Science, Heraklion, **Greece**, 26-28 September **2022**.

A. Deltsidis, M. Kaitatzi, L. Simonelli, and A. Lappas
"Hyper Expanded Molecule Intercalated Iron Selenides with Robust Superconducting Response"

International Conference on Magnetic Materials and Applications (ICMAGMA-2018), NISER, Bhubaneswar, **India**, 9-13 December **2018**.

F. Orlandi, E. Aza, A. Zorko, D. Arcon, A. Abakumov, P. Manuel, M.A. Green, and A. Lappas
"Spin-frustrated Rock-salt Manganites and their Topologically Correlated Degrees of Freedom"

European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017); Symposium A5: "Colloidal Nanoparticles: Synthesis, Functionalization, and Applications", Thessaloniki, **Greece**, 17-22 September **2017**.

A. Kostopoulou, M. Sygletou, K. Brintakis, A. Lappas, and E. Stratakis
"Low-temperature Benchtop-Synthesis of All-inorganic Perovskite Nanowires"

11th International Conference on Physics of Advanced Materials (ICPAM-11), Cluj-Napoca, **Romania**, 8-14 September **2016**.

E. Aza, I. Bakaimi, A. Zorko, D. Arcon, A.M. Abakumov, and A. Lappas,
"Magnetic Frustration and Polymorphism in Layered Rock-salt Manganites"

Alexandros Lappas

The European Powder Diffraction Conference (EPDIC15); MicroSymposium: “Neutron Structural and Magnetic Scattering”, Bari, **Italy**, 12-15 June **2016**.

A. Lappas, E. Aza, E. Bozin, A. Zorko, D. Arcon, A.M. Abakumov, M. Ciomaga Hatnean, and G. Balakrishnan

“Frustration-induced Structural Complexity in Layered Rock-slat Manganites”

E-MRS 2016 Spring Meeting; Symposium CC: “In situ Studies of Functional Nano-materials at Large Scale Facilities: from Model Systems to Applications”, Lille, **France**, 2-6 May **2016**.

G. Antonaropoulos, K. Brintakis, E.S. Bozin, M. Abeykoon, G. Ausanio, V. Iannotti, and A. Lappas

“Deciphering the Workings of Magnetic Nanoparticles by Unraveling their Local Structure”

European Molecular Imaging Meeting (EMIM) 2016, “Imaging Probes, Chemistry & Reporter Genes: Novel concepts and probes for MRI”, Utrecht, **Netherlands**, 8-10 March **2016**.

A. Kostopoulou, K. Brintakis, and A. Lappas

“Tailored Colloidal Nanocrystal Clusters for Diagnosis and Therapy”

2015 European School of Magnetism, Cluj-Napoca, **Romania**, 24 August - 4 September **2015**.

E. Aza, A. Lappas, A.M. Abakumov, I. Bakaimi, B. Klemke, K. Kiefer, G. Balakrishnan and M. Ciomaga-Hatnean

“Frustration and Coupled Properties in Two-dimensional Manganites”

QualityNano Conference and Training Workshop, Heraklion, **Greece**, 15-17 July **2015**.

G. Antonaropoulos, K. Brintakis, E. Aza, A. Fernandez-Martinez, A. Kostopoulou, and A. Lappas

“Structure and Function Correlations in Hybrid Nanocrystals”

20th International Conference on Magnetism, Barcelona, **Spain**, 5-10 July **2015**.

K. Brintakis, A. Kostopoulou, M. Vasilakaki, K.N. Trohidou, A. Ranella, I. Athanassakis, M. Angelakeris, A. Lascialfari, A.P. Douvalis and A. Lappas,

“Maghemite Nanocrystal Clusters for MRI Diagnosis & Hyperthermia Medical Treatment”

DISTINCTION, Best Poster of the day.

11th International Workshop on Magnetism and Superconductivity at the Nanoscale, Coma-ruga, Spain, 29 June - 3 July **2015**.

A. Kostopoulou, K. Brintakis, and A. Lappas,

“Hierarchical Length-scale Interactions in Colloidal Nanocrystal Clusters”

30th Panhellenic Conference on Solid State Physics & Materials Science, Heraklion, **Greece**, 21-24 September **2014**.

G. Antonaropoulos, K. Brintakis, A. Kostopoulou, and A. Lappas,

“Shaping Core-Shell Iron Oxide Nanocrystals”

30th Panhellenic Conference on Solid State Physics & Materials Science, Heraklion, **Greece**, 21-24 September **2014**.

E. Aza, I. Bakaimi, A.M. Abakumov, B. Klemke, K. Kiefer, and A. Lappas,

“Magnetoelectricity in Two-dimensional Manganites”

SPIE Photonics West: Colloidal Nanoparticles for Biomedical Applications, San Francisco, **USA**, 1-4 February **2014**.

E. Kasotakis, A. Kostopoulou, M. Spuch-Calvar, M. Androulidaki, N.T. Pelekanos, A.G. Kanaras, A. Mittraki, and A. Lappas

“Thin Film Mesoscale Organization of Nanoparticles by using Biomolecular Peptide Tools”

Alexandros Lappas

SPIE Photonics West: Oxide-based Materials and Devices V, San Francisco, **USA**, 2-5 February **2014**.

I. Bakaimi, A. Abakumov, M.A. Green, and A. Lappas

“Crystal, Magnetic and Dielectric Studies of the 2D Antiferromagnet: beta-NaMnO₂”

8th International Conference on Fine Particle Magnetism, Perpignan, **France**, 24-27 June **2013**.

K. Brintakis, A. Kostopoulou, A. Lappas, S.K.P. Velu, T. Kalaivani, F. Orsini, A. Lascialfari, A.P. Douvalis, M. Vasilakaki, K.N. Trohidou, L. Manna, D. Sakellari, K. Simeonidis, and M. Angelakeris

“Magnetic Nanoclusters as a Theranostic Agent”

2012 Joint European Magnetic Symposia, Parma, **Italy**, 9-14 September **2012**.

K. Brintakis, A. Kostopoulou, A. Douvalis, A. Lappas

“Interparticle Interactions and Spin-glass Behaviour in Colloidal Maghemite Nanocrystal Clusters”

2012 Joint European Magnetic Symposia, Parma, **Italy**, 9-14 September **2012**.

O. Adamopoulos, A. Lappas, A. Zorko, D. Arcon, C. Stock, M. Green

“Frustration and Inhomogeneous Magnetism in the Spin-2 Anisotropic Triangular Lattice System α -NaMnO₂”

20th International Conference on Soft Magnetic Materials, Kos, **Greece**, 18-22 September **2011**.

D. Sakellari, E. Mirovalli, K. Simeonidis, A. Kostopoulou, K. Brintakis, A. Lappas, and M. Angelakeris

"Bottom up Approach to Magnetic Hyperthermia Agents: from Maghemite Nanoparticles to Large Ferrimagnetic Nanoclusters"

8th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, **Greece**, 12-15 July **2011**.

A. Kostopoulou, F. Thetiot, I. Tsiaoussis, M. Androulidaki, P.D. Cozzoli, and A. Lappas

"Interfaces as a Means to Engineer Multifunctionality: Magnetic-Fluorescent ZnO Hybrid Nanocrystals"

XXVI Panhellenic Conference on Solid State Physics & Materials Science, Ioannina, **Greece**, 26-29 September **2010**.

K. Brintakis, A. Kostopoulou, and A. Lappas,

"Synthesis and Characterisation of Iron Oxide Magnetic Nanocrystals"

9th FORTH Retreat, Loutra Kyllinis, **Greece**, 9-10 October **2009**.

A. Kostopoulou, J. Tsiaousis, F. Thetiot, E. Snoeck, and A. Lappas,

"Magneto-optical Properties of Iron Oxide Nanoclusters"

Emerging Trends & Novel Materials in Photonics, Delphi, **Greece**, 7-9 October **2009**.

F. Thetiot, A. Kostopoulou, I. Tsiaoussis, M. Androulidaki, D. Cozzoli, and A. Lappas,

"Magnetic-Fluorescent Hybrid Nanocrystals of Zinc Oxide"

XXV Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, **Greece**, 20-23 September **2009**.

K. Brintakis, A. Kostopoulou, and A. Lappas,

"Fe₃O₄@Au Core-Shell Nanocrystals: Magnetic and Optical Properties"

XXV Panhellenic Conference on Solid State Physics & Materials Science, Thessaloniki, **Greece**, 20-23 September **2009**.

A. P. Douvalis, A. Kostopoulou, A. Lappas and T. Bakas,

"Structural and Magnetic Properties of Colloidal Iron Oxide Magnetic Nanoclusters"

Theoretical and Experimental Magnetism Meeting, Abingdon, **UK**, 2-3 July **2009**.

A. Lappas, C. Stock, L.C. Chapon, O. Adamopoulos, M. Giot, J.W. Taylor, M.A. Green, C.M. Brown, and P.G. Radaelli,

"Order Against Frustration in the spin-2 Triangular Lattice System NaMnO₂"

Alexandros Lappas

XXIV Pan-Hellenic Conference on Solid State Physics, Heraklion, **Greece**, 21-24 September **2008**.
A. Kostopoulou, and A. Lappas,
"Ordered Structures of Water Soluble Magnetic Nanoclusters"

XXIV Pan-Hellenic Conference on Solid State Physics, Heraklion, **Greece**, 21-24 September **2008**.
O. Adamopoulos, and A. Lappas,
"Study of the NaMnO₂ Triangular Lattice System at High Temperature"

XXIV Pan-Hellenic Conference on Solid State Physics, Heraklion, **Greece**, 21-24 September **2008**.
K. Brintakis, A. Kostopoulou, G. Konstantinidis, T. Kostopoulos, Z. Hatzopoulos, and A. Lappas,
"Electrical Properties of Single Metallic Nanocrystals"

XXIV Pan-Hellenic Conference on Solid State Physics, Heraklion, **Greece**, 21-24 September **2008**.
K. Palotás, A.N. Andriotis, and A. Lappas,
"Theoretical Studies on Bare and Gold Covered Iron-oxide Nanocrystals"

XXIV Pan-Hellenic Conference on Solid State Physics, Heraklion, **Greece**, 21-24 September **2008**.
F. Thétiot, Domitille Giaume, and A. Lappas,
"Heterostructures and Doping of Metal-oxide Nanocrystals with Tailored Properties"

Gordon Research Conference: Solid State Chemistry I, New Hampshire, **USA**, 27 July - 1 August **2008**.
M. Giot, L. Chapon, J. Androulakis, M.A. Green, P.G. Radaelli, and A. Lappas,
"Order Against Frustration in a Manganese Delafossite Triangular Lattice System"

APS March Meeting, New Orleans, **USA**, 10-14 March **2008**.
C. Vecchini, L. Chapon, H. Kageyama, O. Adamopoulos, and A. Lappas
"Structural Distortions in the Spin-gap Regime of the Quantum Antiferromagnet SrCu₂(BO₃)₂"

European Conference of Molecular Magnetism, Tomar, **Portugal**, 10-15 October **2006**.
D. Perisnakis, D. Gray, E. Pomjakushina, K. Conder, and A. Lappas
"Ultrafast Spin Manipulation in Antiferromagnets: Towards Novel Magneto-optic Devices"
Distinction, for best Poster presentation by the 1st author (MSc student).

5th International Conference on Inorganic Materials, Ljubljana, **Slovenia**, 23-26 September **2006**.
A. Lappas, C.J. Nuttall, Z.G. Fthenakis, V.Y. Pomjakushin, M.A. Roberts
"Topotactic lithium intercalation and electronic properties in the nanostructured Mo₂SbS₂"

Gordon Research Conference: Solid State Chemistry, Il Ciocco, Barga, **Italy**, 5-10 June **2005**.
A. Lappas, D. Arnold, V. Pomjakushin, and M. Green,
"Mixed-Valent Nanoporous Manganates"

2nd Hellenic Crystallographic Association Conference, Athens, **Greece**, 15-16 October **2004**.
A. Lappas, D. Arnold, V. Pomjakushin, and M. Green,
"Intercalation-Induced Charge/Magnetic Ordering in the Na_{0.44}MnO₂ Porous Manganate"

Colloque AMPERE, NMR and EPR of Broad-Line Solids, Portoroz, **Slovenia**, 8-12 September **2003**.
D. Arcon, A. Zorko, and A. Lappas,
"ESR and ⁵¹V NMR Study of the Haldane System PbNi_{2-x}Mg_xV₂O₈"

Colloque AMPERE, NMR and EPR of Broad-Line Solids, Portoroz, **Slovenia**, 8-12 September **2003**.
A. Zorko, D. Arcon, Z. Jaglicic, C. Nuttall, and A. Lappas,
"X-band ESR Study of the 2D Spin-gap System SrCu₂(BO₃)₂"

International Conference on Magnetism 2003, Rome, **Italy**, 27 July - 1 August **2003**.

Alexandros Lappas

A. Zorko, D. Arcon, Z. Jaglicic, C. Nuttall, and A. Lappas,
"X-band ESR Study of the 2D Spin-gap System $\text{SrCu}_2(\text{BO}_3)_2$ "

International Conference on Magnetism 2003, Rome, **Italy**, 27 July - 1 August **2003**.

D. Arcon, A. Zorko, P. Cevc, E. Wortham, A. Lappas, E.P. Giannelis, and R. Das,
"Modified Magnetic Interactions in Hybrid Perovskite Nanocomposites"

XVIII Pan-Hellenic Conference on Solid State Physics, Heraklion, **Greece**, 15-18 September **2002**.

E. Wortham, A. Zorko, D. Arcon, R.N. Das, E.P. Giannelis, and A. Lappas,
"Perovskite Nanocrystals in Polymers: a Study of Their Magnetism"

19th General Conference of the EPS Condensed Matter Division & CMMP 2002, Brighton, **UK**, 7-11 April **2002**.

A. Lappas, I. Mastoraki, J. Giapintzakis, K. Prassides, and A. Schenck,
"Doping-Induced Effects in Quasi-One-Dimensional Oxides $\text{PbNi}_{2-x}\text{A}_x\text{V}_2\text{O}_8$ (A= Mg, Co): from Haldane State to Néel Ordering"

Gordon Research Conference: Solid State Chemistry, New Hampshire, **USA**, 3 July-4 August **2000**.

A. Lappas, M. Kurmoo, and K. Prassides,
"Metal Dicyanamide Binary Compounds: A Series of Molecular Magnets"

A NATO Advanced Study Institute on: Muon Science (SUSSP51), School of Physics and Astronomy, University of St. Andrews, St. Andrews, **UK**, 17-28 July **1998**.

A. Lappas, K. Prassides, F.N. Gygax, and A. Schenck,
"Muon Spin Relaxation Studies of the Magnetism in $\text{La}_{1.875}\text{Ba}_{0.125-y}\text{Sr}_y\text{CuO}_4$ ($0 \leq y \leq 0.1$)"

Gordon Research Conference: Solid State Chemistry, New Hampshire, **USA**, 26-31 July **1998**.

A. Lappas, S. Margadonna, C.M. Brown, K. Kordatos, K. Tanigaki, and K. Prassides,
"Polymerisation of Sodium Fullerides: A Comparative Study"

European Research Conference on Chemistry and Physics of Multifunctional Materials: Fullerenes in Context, Espinho, **Portugal**, 6-11 September **1997**.

A. Lappas, M. Kosaka, K. Tanigaki, and K. Prassides,
"Orientational Order in AC_{60} Alkali Fullerides"

Condensed Matter and Materials Physics Conference (CMMP'92), University of Sheffield, Sheffield, **UK**, 15-17 December **1992**.

A. Lappas, K. Prassides, A. Amato, F.N. Gygax, and A. Schenck,
"μSR Studies of Layer Cuprate Systems"

Condensed Matter and Materials Physics Conference (CMMP'91), International Convention Centre, Birmingham, **UK**, 17-19 December **1991**.

C. Christides, A. Lappas, K. Prassides, M. Pissas, and D. Niarchos,
"An X-Ray Absorption Study of the YBaCuFeO_{5+x} Double Layered Perovskites"

Condensed Matter and Materials Physics Conference (CMMP'91), International Convention Centre, Birmingham, **UK**, 17-19 December **1991**.

A. Lappas and K. Prassides,
"Structural Phase Transitions in $\text{La}_2\text{Cu}_{1-x}\text{Co}_x\text{O}_{4+\delta}$ "

International Conference on Inorganic Chemistry (The Royal Society of Chemistry), University of Sussex, Brighton, **UK**, 22-25 July **1991**.

C.J. Bell, A. Lappas, K. Prassides, M.G. Kanatzidis, and C-G. Wu,
"Intercalation Chemistry of Layer FeOCl "

APPENDIX IV

SUPERVISION OF MSc AND PhD DISSERTATIONS

2021 – <i>present</i>	Supervisor of PhD degree in progress (1)
2020 – 2024	Supervised the dissertation of an awarded PhD degree (1)
2021 – 2022	Supervised a postgraduate student awarded with an MSc degree (1)
2013 – 2021	Supervised the dissertation of awarded PhD degrees (2)
2011 – 2016	Supervised the dissertation of an awarded PhD degree (1)
2014 – 2016	Supervised a postgraduate student awarded with an MSc degree (1)
2006 – 2014	Supervised the dissertation of awarded PhD degrees (3)
2004 – 2010	Supervised postgraduate students awarded with an MSc degree (3)
2000 – 2001	Co-supervision of awarded postgraduate MSc theses (3)

2021 – *present*

“Chemical-physics of Two-dimensional Magnetic and Superconducting Energy Materials”
Ms. Myrsini Kaitatzi, *Ph.D* candidate; Materials Science and Eng. – Univ. of Crete.

2020 – 2024

“Electron Correlations in Layered Metal Chalcogenides: Structure and Physical Properties”,
Mr. Alexandros Deltsidis, *Ph.D*. Materials Science and Engineering – Univ. of Crete.

2021 – 2022

“Single-crystal Growth of Hybrid Halide Perovskites and Investigation of their Lattice Dynamics”
Mr. Giannis Gkikas, *M.Sc.* Dept. of Electrical & Computer Engineering. – Hellenic Mediterranean Univ..

2013 – 2021

“Optimization of Iron Oxide Nanocrystals’ Response: Structural Disorder and Magnetically-Mediated Functionalities”,
Mr. Giorgos Antonaropoulos, *Ph.D*. Materials Chemistry – Univ. of Crete, **2013-2021**.

“Strongly Correlated Transition Metal Oxides: Synthesis, Structure, Magnetic, Dielectric and Dynamical Properties”,
Ms. Eleni Aza, *Ph.D*. Materials Physics – Univ. of Ioannina, **2013-2019**.

2011 – 2016

“Development and Assembly of Hybrid Nanocrystals: Structural, Electronic and Magnetic Properties”,
Mr. Kostantinos Brintakis, *Ph.D*. Materials Physics – Aristotle Univ. of Thessaloniki.

2014 – 2016

“System Automation for Multispectral and Time-resolved Imaging for Studying Phase Transitions in Magneto-dielectric Materials”
Mr. Kyriakos Mouratis; *M.Sc.* Advanced Production Systems, Automation and Robotics – Tech. Ed. Inst. of Crete.

2006 – 2014

“Synthesis and Characterisation of Hybrid Nanocrystal Structures with Tailored Properties”,
Ms. Athanasia Kostopoulou, *Ph.D*. Materials Chemistry – Univ. of Crete, **2007-2012**.

“Structural, Magnetic and Magnetodielectric Behavior of Geometrically Frustrated Manganese Oxides”, Ms. Ioanna Bakaimi, *Ph.D*. Physics – Univ. of Crete, **2008-2014**.

“Structure and Magnetism in Microporous Mixed-valence Transition Metal Oxides”,
Mr. Othon Adamopoulos, *Ph.D. Materials Chemistry – Univ. of Crete, 2006-2013.*

2004 – 2010

“Growth and Characterisation of Iron Oxide Magnetic Nanocrystals”,
Mr. Konstantinos Brintakis, *M.Sc. Physics – Aristotle Univ. of Thessaloniki, 2007-2010.*

“Femtosecond Time-resolved Studies of Spin Reorientation Transitions in Orthoferrite Antiferromagnets”,
Mr. Dimitris Perisinakis, *M.Sc. Physics – Univ. of Crete, 2005-2008.*

“Polymer/Layered Silicate Clay and Polymer/Organic-Inorganic Perovskite Nanohybrid Materials: Syntheses and Study of their Physical Properties”,
Ms. Ioanna Andrianaki, *M.Sc. Physics – Univ. of Crete, 2004-2006.*

2000 – 2001

“Organic-Inorganic Perovskites: Synthesis, Structure and Optical Characterisation of the Solid-Solution $(\text{C}_4\text{H}_9\text{NH}_3)_2\text{Pb}_{1-x}\text{Eu}_x\text{I}_4$ ($x= 0, 0.2, 0.6, 1$)”,
Mr. Grigoris Beis, *M.Sc. Physics – Univ. of Crete, 2000-2001.*

“Structure and Magnetism in the Quasi-One-Dimensional Haldane-Gap System $\text{PbNi}_{2-x}\text{A}_x\text{V}_2\text{O}_8$ ($\text{A}= \text{Mg}, \text{Co}$)”,
Ms. Irene Mastoraki, *M.Sc. Physics – Univ. of Crete, 2000-2001.*

“(Spin-Vacancy) Induced Magnetic Ordering in One-Dimensional Spin Systems $\text{PbNi}_{2-x}\text{Mg}_x\text{V}_2\text{O}_8$ ”,
Mr. Vassilis Alexandrakis, *M.Sc. Physics – Univ. of Crete, 2000.*

MENTORING OF POST-DOCTORATE FELLOWS

- Former Post-doc Fellows I supervised in my lab, are now in tenure-track careers at organizations such as: *PANalytical, Johnson Matthey, Kent University, Ecole Centrale Paris, National Physical Lab, Ecole Nationale Supérieure de Chimie de Paris, Zhejiang Sci-Tech University.*

2022	Post-doc Fellow funded via a FORTH Synergy grant (1)
2019 – 2021	Post-doc Fellows funded via a US ONRG grant (2)
2018 – 2019	Post-doc Fellows funded via a US ONRG grant (1)
2012 – 2015	Post-doc Fellows funded via collaborative national grants (2)
2007 – 2010	Marie-Curie Post-doc Fellows (9)
2006 – 2009	Post-doc Fellows shared with ISIS-RAL (2)
2003 – 2004	Co-funded Post-doc Fellow of British Council – General Secretariat of Research & Technology (1)
2000 – 2003	Marie-Curie Post-doc Fellows (2)

My collaboration with the Post-doctorate Young Researchers involved the following research projects:

1. “Development of Colloidal Hybrid Nanoclusters for Multi-modal Imaging of Atherosclerosis”, Eirini Koutsouroubi, IESL-FORTH, **Jan.- Jul. 2022** (*FORTH Synergy grant 2021 – 2023*).
2. “Solvo-thermal Synthesis and Understanding of Structural Modifications in High- T_c Intercalated Iron Chalcogenides”, Izar Capel Berdiell, IESL-FORTH, **Feb. 2020- Apr. 2021** (*US ONRG 2018 – 2022*).
3. “Fluctuations in Molecule Intercalated Iron Chalcogenide Superconductors”
Elijah Lator, IESL-FORTH, **Aug. 2019- Aug. 2020** (*US ONRG 2018 – 2022*).

4. “Deciphering the Workings of Molecule Intercalated Iron Chalcogenides”
Panagiotis Mangelis, IESL-FORTH, **Jan. 2018- Mar. 2019** (*US ONRG 2018 – 2022*).
5. “Functional Magnetic Oxides: Growth and Coupled Properties”
Antonio Fernandez-Martinez, IESL-FORTH, **Jul. 2014- Jun. 2015** (*NSRF 2007 – 2013, Greece*).
6. “Novel Nanostructures of ZnO and Their Applications in Nanophotonics and Energy Conversion”
Athanasia Kostopoulou, IESL-FORTH, **Jan.- Dec. 2013** (*NSRF 2007 – 2013, Greece*).
7. “Magnetic Properties of Field-assembled Fe_xO_y Colloidal Nanocrystal Cluster Arrays”,
Anastasia Trunova, IESL-FORTH, **Apr. 2010- Sept. 2010** (*Marie-Curie Fellow*).
8. “Fluorescent Labelling of Fe_xO_y Colloidal Nanocrystal Clusters”,
Miguel Spuch-Calvar, IESL-FORTH, **Feb. 2010- Sept. 2010** (*Marie-Curie Fellow*).
9. “Incorporation of Colloidal Nanocrystal Clusters in Fiber Optic Devices”,
Jan Vanda, IESL-FORTH, **Jul. 2009- Jul. 2010** (*Marie-Curie Fellow*).
10. “Assembly of Au-based Hybrid Nanocrystals in Nanogaps and Transport Phenomena”,
Peigang Li, IESL-FORTH, **Jul. 2009- Sept. 2010** (*Marie-Curie Fellow*).
11. “Hybrid Photonic Nanocrystals Combining Magnetic and Fluorescent/Plasmonic Properties”,
Nicolas Nerambourg, IESL-FORTH, **Sept. 2009- Jan. 2010** (*Marie-Curie Fellow*).
12. “Superlattices of Hybrid Nanocrystals Clusters”,
Rob Pullar, IESL-FORTH, **Oct. 2008- Apr. 2009** (*Marie-Curie Fellow*).
13. “Hybrid Nanocrystals: Modelling and Simulations”,
Krisztian Palotas, IESL-FORTH, **2008-2009** (*Marie-Curie Fellow*).
14. “Development of Binary Hetero-nanostructures”,
Franck Thetiot, IESL-FORTH, **Oct. 2007- Apr. 2010** (*Marie-Curie Fellow*).
15. “Hybrid Nanocrystals Exhibiting Advanced and Tailored Properties”,
Domitille Giaume, IESL-FORTH, **Mar.- Dec. 2007** (*Marie-Curie Fellow*).
16. “Neutron Diffraction of Strongly Correlated & Frustrated Magnetic Systems”,
Carlo Vecchini, IESL-FORTH & ISIS-RAL, **2006-2009** (*EC Research Infrastructures Post-doc Fellow*).
17. “Magnetism in Frustrated Lattice Topologies”,
Maud Giot, IESL-FORTH & ISIS-RAL, **2006-2007** (*EC Research Infrastructures Post-doc Fellow*).
18. “Mixed-Valent Nanoporous Manganese Oxides”,
Donna Arnold, IESL-FORTH, **Nov. 2003- Apr. 2004** (*British Council – GSRT Fellow*).
19. “Synthesis and Physical Investigations of Intercalated Layered Metal-Nitride Nanohybrids”,
Christopher J. Nuttall, IESL-FORTH, **2001-2003** (*Marie-Curie Fellow*).
20. “Organic-Inorganic Perovskites for Magnetic Nanocomposites”,
Etienne Wortham, IESL-FORTH, **2000-2002** (*Marie-Curie Fellow*).