

CURRICULUM VITAE

Current position:

Evangelia G. Moschopoulou

Scientist A', Director of Research

Institute of Nanoscience and Nanotechnology,
National Center for Scientific Research "Demokritos";
Agia Paraskevi, Athens,
GREECE



Main Research Interests

Scientific areas: Crystallography, Condensed Matter Physics, Nanoscience Solid State Chemistry

Experimental Methods: Structural Characterization by Synchrotron X-ray and Neutron based Techniques, X-ray Crystallography, Electron Microscopy.

Materials: a) Quantum Materials: Single Crystal Growth and Advanced Characterization; b) Nanoparticles: Synthesis and Characterization.

Phenomena: Magnetism, Superconductivity, Magnetoelectricity, Multiferroelectricity, Ferroelectricity, Structural Properties of Nanoparticles, Quantum Materials and Proteins including Ion Channels

Applications: Novel Nanomaterials for Health, Materials for Energy and Materials for Environmental Protection including Climate Change.

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May 2022

CURRICULUM VITAE

Evangelia G. Moschopoulou

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Institute of Nanoscience and Nanotechnology,
15341 Agia Paraskevi (Attiki), Greece.
Phone: +30 210 6503320, +30 6937560922
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Citizenship: GREEK

Education

1995: Ph.D. Crystallography and Experimental Condensed Matter Physics

University Joseph Fourier now called Grenoble Alpes University <https://www.univ-grenoble-alpes.fr/> and National Center of Scientific Research (CNRS) <http://www.grenoble.cnrs.fr>, Grenoble (France), 12/1991 - 2/1995.

Thesis topic: “The Systems $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ and $\text{Li}_{1-x}\text{NbO}_2$: Relations between Li-Content, Crystal Structure and Superconductivity”.

Final grade: “Excellent”.

Work carried out at the Laboratory of Crystallography and the Laboratory of Very Low Temperatures at CNRS - Grenoble <https://neel.cnrs.fr/>

Advisor: Dr. Pierre Bordet.

1991: M.Sc. Science and Structure of Materials

University Joseph Fourier now called Grenoble Alpes University <https://www.univ-grenoble-alpes.fr/>, Grenoble (France), 9/1990 - 9/1991

M.Sc. Dissertation topic: “Preparation, Crystallographic Characterization and Magnetic Measurements of Ferromagnetic and Antiferromagnetic Nanoparticles”.

Final grade: “Very Good”.

Work carried out at the Laboratory of Magnetism Louis Néel and the Laboratory of Crystallography of CNRS - Grenoble <https://neel.cnrs.fr/>

Advisors: Dr. Bernard Barbara and Dr. Daniel Fruchart.

1990: DELF - Sorbonne B2 (Advanced Diploma) French Language and Scientific Terminology

French Institute of Greece <https://www.ifg.gr/> Thessaloniki (Greece), 9/1987 - 8/1990.

Final Grade: “Very Good”

1987: B.Sc. Physics

Physics Department, Aristotle University of Thessaloniki <http://www.auth.gr/en/physics>, Thessaloniki (Greece), 9/1982 - 3/1987; accepted through national exams in June 1982.

Undergraduate Thesis topic: “Factors Favoring the Formation of Amorphous Materials”

Final Grade: “Very Good”.

Work carried out at the Laboratory of Applied Physics of Aristotle University.

Advisor: Prof. George Stergioudis.

Professional Experience

Scientific Staff Member (Scientist A', Director of Research), Institute of Nanoscience and Nanotechnology, National Center for Scientific Research "Demokritos" <http://www.demokritos.gr> Athens (Greece), 12/2008 – present.

Invited Research Scientist, Institute of Materials Science, Los Alamos National Laboratory, USA, 2/2018 – 6/2019.

Invited Professor, University Grenoble Alpes and Materials and Physical Engineering Laboratory <http://www.lmgp.grenoble-inp.fr> of Grenoble Institute of Technology and CNRS, Grenoble (France), 5/2017.

Invited Professor, University Joseph Fourier and Institute Néel CNRS <http://neel.cnrs.fr>, Grenoble (France), 5/2016 and 6/2016.

Invited Professor, University Joseph Fourier and Institute Néel CNRS <http://neel.cnrs.fr>, Grenoble (France), 10/2015 and 11/2015.

Visiting Scientist, Soleil Synchrotron <http://www.synchrotron-soleil.fr/>, beamline "Cristal" <http://www.synchrotron-soleil.fr/Recherche/LignesLumiere/CRISTAL> and Laboratory of Solid State Physics <http://www.lps.u-psud.fr>, University Paris-Sud 11, Orsay (France) 9/2012 - 12/2012.

Visiting Scientist, Institute Néel CNRS <http://neel.cnrs.fr>, Grenoble (France) 5/2010 - 10/2010.

Visiting Scientist, Department of Chemistry <http://chemistry.ucdavis.edu/index.html> University of California Davis, California, 6/2004 - 12/2004.

Scientific Staff Member (Scientist B', tenured position), Institute of Materials Sciences, National Center for Scientific Research "Demokritos", Athens (Greece), 9/2004 - 11/2008.

Scientific Staff Member (Scientist C'), Institute of Materials Sciences, National Center for Scientific Research "Demokritos", Athens (Greece), 7/2000 - 9/2004.

Scientific Staff Member, National Synchrotron Light Source <http://www.bnl.gov/ps> Brookhaven National Laboratory, beamline X7A, Upton, New York, 8/1998 - 6/2000 and Powder Diffraction Group, Solid State Physics Department <http://www.bnl.gov/cmpmsd>

Postdoctoral Research Associate, Condensed Matter and Thermal Physics Group <http://www.lanl.gov/orgs/mpa/cmms>, Materials Science and Technology Division, Los Alamos National Laboratory, Los Alamos, New Mexico with Prof. Zachary Fisk (1996 Member of National Academy of Science) and Dr. Joe D. Thompson, 3/1995 - 7/1998.

Awards and fellowships

Greek Ministry of Education award “Excellence” ranked 1st at the national exams of Lyceums (Greek High-Schools which provide academically-oriented education), June 1982.

French Ministry of Foreign Affairs fellowship (three months) for M.Sc. studies at the University Joseph Fourier, Grenoble, April 1990.

Academy of Grenoble fellowship (nine months) for M.Sc. studies at the University Joseph Fourier, Grenoble, October 1990.

French Ministry of National Education and Research fellowship (three years) for Ph.D. studies at the National Center for Scientific Research, Grenoble, December 1991.

French Ministry of Foreign Affairs award “Excellence” for Ph.D. Thesis, Grenoble, February 1995.

Greek Ministry of Science and Development - General Secretariat for Research and Technology, award “ENTER” for attracting distinguished researchers to Greece; ranked first among thirty-two candidates, January 2000.

Research Grant Support

The total amount of funding that I have received up until today is at about **0.45 million Euro**, despite the very difficult conditions that I have been working in, especially during the last six years. Most of the funding comes from European Commission (EC) since, even when the Funding Agency is Greek, the 70-80% of the budget is from EC. I have to point out that this amount does not include my personal fellowships.

1. Funding Agency: *Greek Ministry of Development, General Secretary of Research and Technology*
Program: ENTER
Project title: “*Preparation, Structural Characterization and Physical Properties of Unconventional Superconductors*” 2000 - 2002 (principal investigator).
2. Funding Agency: *Greek Ministry of Development, General Secretary of Research and Technology*
Program: Scientific and Technological Cooperation between Research, Technology and Development Organizations in Greece and USA
Project title: “*Preparation, Structural Characterization and Physical Properties of Magnetic Nanoparticles and Core/Shell Nanocomposites*” 2006, 2007 (principal investigator).
Collaboration with the Center of Integrated Nanotechnologies and the National High Magnetic Field Laboratory at Los Alamos National Laboratory.
3. Funding Agency: *Greek Ministry of Development, General Secretary of Research and Technology*
Program: Scientific and Technological Cooperation between Research, Technology and Development Organizations in Greece and France

Project title: *“Relationship between Composition, Crystal structure and Thermoelectric Properties of New Skutterudites”* 2007, 2008 (principal investigator).
Collaboration with the Institute Laue Langevin and Department of Condensed Mater, Materials and Applications of the Institute Néel of CNRS-Grenoble, France.

4. Funding Agency: *European Commission (6th and 7th Framework Program)*
Program: Cooperation in Science and Technology (COST); the program supports “the co-ordination of nationally funded research on a European level”.
Participation to the COST Action “Materials” with the project *“Electroceramics from nanopowders produced by innovative ways (EleNa)”*; 27/05/2005 through 22/12/2009.
Principal investigator, Member of the Management Committee and National Representative.
5. Funding Agency: *European Commission (6th and 7th Framework Program)*
Program: Cooperation in Science and Technology (COST)
Participation to the COST Action “Physics” with the project *“Emergent Behavior of Correlated Matter (ECOM)”*, 20/01/2005 through 21/02/2009.
Principal investigator, Member of the Management Committee and National Representative.
6. Funding Agency: *European Commission (6th and 7th Framework Programs)*
Program: Improving Human Potential and the Socio-Economic Knowledge Base, activity “Transnational Access to Research Infrastructure”; the program supports “researchers for experiments at neutron and synchrotron X-Ray facilities throughout Europe” 2001-2013 (principal investigator).
7. Funding Agency: *European Commission (7th Framework Program)*
Program: Capacities - Research Potential and International Cooperation
Project title: *“Reinforcement of research potential of the Department of Materials in the field of processing and characterization of nanostructured materials”* 2008-2011 (co-principal investigator).
8. Funding Agency: *European Commission (7th Framework Program)*
Program: Cooperation in Science and Technology (COST)
Participation to the COST Action “Materials, Physics and Nanosciences” with the project “Single- and Multiphase Ferroics and Multiferroics with Restricted Geometries (SIMUFER)” ; 02/03/2010 through 31/05/2014.
Principal investigator, Member of the Management Committee and National Representative.
9. Funding Agency: *Greek Ministry of Education, General Secretary of Research and Technology*
Program: Reinforcement of Scientific and Technological Cooperation between Greek National Laboratories and Universities
Project title: *“Preparation, Structural Characterization and Physical Properties of Nanostructured Multifunctional Materials”* 1/10/2011 through 31/9/2015 (principal investigator).
10. Funding Agency: *European Commission (7th Framework Program)*
Program: Cooperation in Science and Technology (COST)
Participation to the COST Action “Materials, Physics and Nanosciences” with the project “Towards Oxide-Based Electronics” (TO-BE); 15 April 2014 through 14 April 2018.

Principal investigator, Substitute Member of the Management Committee and National Representative.

11. Funding Agency: *European Commission (7th Framework Program)*

Program: *Cooperation in Science and Technology (COST)*

Participation to the COST Action “Materials, Physics and Nanosciences” with the project “Nanoscale Coherent Hybrid Devices for Superconducting Quantum Technologies” (NANOCOHYBRI); 18 October 2017 through 17 April 2022.

Principal investigator, Member of the Management Committee and National Representative.

Teaching Experience

A. Courses

1. *Teacher of Physics, Chemistry and Mathematics at High Schools of Thessaloniki and Chalkidiki areas (Greece)*

2. *Adjunct Professor, Department of Sciences - National and Kapodistrian University of Athens*

3. *Adjunct Professor, Department of Physics - Aristotle University of Thessaloniki*

4. **Lectures on the “Properties of Synchrotron X-Rays”**

I gave lectures on the “Properties of Synchrotron X-Rays” to graduate students of the Summer School “Structural Characterization of Materials” organized by the Greek Ministry of Education. Athens (Greece), 4 hours, July 2003, 2004

B. Ph.D. and M.Sc. students: 6

C. Other Teaching-Related Duties

Peer Review

- Referee for a number of **scientific journals** (Physical Review Letters, Physical Review B, Physica B, Physica C, Applied Physics A, Acta Crystallographica B, Journal of Solid State Chemistry, Journal of Applied Crystallography) and of various conference proceedings.

- Member of the **NSLS Proposal Review Panel** (Crystallography) for allocation of synchrotron X-ray beamtime, Brookhaven National Laboratory, 8/1998 - 1/2000.

- Reviewer for the evaluation of research and innovation proposals submitted to:

1. **European Commission** for the following two programs:

- a) **Program “Cooperation”**, sub-division “Nanosciences, Nanotechnologies, Materials & New Production Technologies (NMP)”:
 - Call: FP7-NMP-2007-SME-1: Collaborative Projects targeted to Small and Medium size Enterprises (2007).
 - Call: FP7-NMP-2012-LARGE-6: Large-scale Integrating Collaborative Projects (in two phases: 2011, 2012).

- b) **Program M-ERA.NET**: Coordination of European research programs and related funding in materials science and engineering (2013-today).

- c) **Horizon 2020**

- d) **Horizon Europe**

2. **Research Promotion Foundation of Cyprus** (2009).

3. **Austrian Science Fund** (2012).

4. **Slovak Research and Development Agency** (2006)

5. **Research Council of Norway** (2015-today)

6. **Greek Ministry for the Development, General Secretariat for Research and Technology** (2004-today).

Editor

Member of the Editorial Board of the **International Journal: Processing and Applications of Ceramics** <http://www.tf.uns.ac.rs/publikacije/PAC/index.html> 2007-present.

Organization of Conferences

- Principal Organizer of the **Workshop “Structural and Functional Characterization of Complex Materials”**, <http://www.tf.uns.ac.rs/dematen/site/index.php/wp5/75-the-second-fp7-workshop>

June 3-5, 2010, Chalkidiki, Greece.

- Local-Organizer of the “**14th International Density Functional Theory Conference - applications in Physics, Chemistry, Biology, Pharmacy**” DFT 2011
29 August - 2 September 2011, Athens, Greece.

- Member of the **International Scientific Committee of the Student’s Meetings: “Processing and Applications of Ceramics”** <http://www.tf.uns.ac.rs/sm2009/index.html>, organized by the Faculty of Technology of the University of Novi Sad at Novi Sad, Serbia.

December 1-2 2005

December 6-8 2007

December 2-5 2009

November 16-18 2011

- Member of the **International Scientific Committee of the E-MRS Symposium Fall 12 F: Nanoceramics and Ceramic-based Nanocomposites**

http://www.emrsstrasbourg.com/index.php?option=com_content&task=view&Itemid=172&id=551

2012 Fall Meeting, September 17-21 2012, Warsaw University of Technology, Poland.

- Member of the organizing committee of the **1st Greek on Synchrotron Radiation: Production and Properties of Synchrotron Radiation** to be held at Thessaloniki, Greece 5-8 september 2022

Peer Reviewed Publications

A. Refereed Journals

Total number of citations: **1989** (Scopus, March 2022).

1. “Evolution of Structure and Superconductivity with Lithium Content in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ ”,

E. Moshopoulou, P. Bordet, J. J. Capponi, C. Chaillout, A. Sulpice, B. Souletie,

Journal of Alloys and Compounds **195**, 81-84 (1993).

Citations: 15

2. “Evolution of Structure and Superconductivity in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ without Ti-Cation Disorder”,

E. Moshopoulou, P. Bordet, A. Sulpice, J. J. Capponi,

Physica C **235**, 747-748 (1994).

Citations: 9

3. Electron diffraction study of the substitution disorder of the Ti ions in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$
C. Chaillout, E. Moshopoulou, P. Bordet and J. J. Capponi
Acta Cryst. A **49**, c306 (1993).
Citations: 0

4. "Structure and Physical Properties of $\text{Li}_{1-x}\text{NbO}_2$ Single Crystals",
P. Bordet, E. Moshopoulou, S. Liesert, J. J. Capponi,
Physica C **235**, 745-746 (1994).
Citations: 9

5. "Structural, Magnetic and Transport Properties of $\text{La}_2\text{Cu}_{1-x}\text{Li}_x\text{O}_4$ ",
J. L. Sarrao, D. P. Young, Z. Fisk, E. G. Moshopoulou, J. D. Thompson, B. C. Chakoumakos, S. E. Nagler,
Physical Review B **54**(#17), 12014-12017 (1996).
Citations: 47

6. "Magnetic Excitation of the Doped-Hole State in Diamagnetic $\text{La}_2\text{Cu}_{0.5}\text{Li}_{0.5}\text{O}_4$ ",
Yoshinary, P. C. Hammel, J. A. Martindale, E. Moshopoulou, J. D. Thompson, J. L. Sarrao, Z. Fisk,
Physical Review Letters **77**(#10), 2069-2072 (1996).
Citations: 28

7. "The 5f-band Structure of Antiferromagnetic USb_2 from Angle-Resolved Photoemission Spectroscopy: Application to Heavy-Fermions",
A. J. Arko, J. J. Joyce, A. B. Andrews, D. Mandrus, E. Moshopoulou, Z. Fisk, P. C. Canfield,
Philosophical Magazine B **75**(#4), 603-610 (1997).
Citations: 15

8. "Structure and Low-Temperature Properties of SrB_6 ",
H. R. Ott, M. Chernikov, E. Felder, L. Degiorgi, E. G. Moshopoulou, J. L. Sarrao, Z. Fisk, *Zeitschrift Für Physik B* **102**, 337-345 (1997).
Citations: 78

9. "Electronic Structure of Heavy-Fermions: Narrow Temperature Independent Bands",
A. J. Arko, J. J. Joyce, A. B. Andrews, J. D. Thompson, J. L. Smith, E. Moshopoulou, Z. Fisk, A. A. Menovsky, P. C. Canfield C. G. Olson,
Physica B **230-232**, 16-21 (1997).
Citations: 34

10. "Strongly Correlated Electron Systems: Photoemission and the Single-Impurity Model",
A. J. Arko, J. J. Joyce, A. B. Andrews, J. D. Thompson, J. L. Smith, D. Mandrus, M. F. Hundley, A. L. Cornelius, E. Moshopoulou, Z. Fisk, P. C. Canfield, A. Menovsky,
Physical Review B **56**, R7041-R7044 (1997).
Citations: 46

11. "Pressure Dependence of Magnetic Order in Single-Crystalline CePtGa_{1-x} ",
R. Modler, E.G. Moshopoulou, M.F. Hundley, J.L. Sarrao, J.D. Thompson, Z. Fisk,
Review High Pressure Science and Technology **7**, 598 (1998).

Citations: 1

12. “Measurement of the Elastic Tensor of a Single Crystal of $\text{La}_{0.83}\text{Sr}_{0.17}\text{MnO}_3$ and its Response to Magnetic Fields”,

T. W. Darling, A. Migliori, E. G. Moshopoulou, S. A. Trugman, J. J. Neumeier, M. F. Hundley, J. D. Thompson, A. R. Bishop, J. L. Sarrao,

Physical Review B **57**, 5093-5097 (1998).

Citations: 76

13. “Electron Diffraction Study of $\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.5}\text{O}_4$ ”,

E. G. Moshopoulou, J. D. Thompson, Z. Fisk, J. L. Sarrao,

Journal of Physics and Chemistry of Solids **59**, 2227-2229 (1998).

Citations: 3

14. “Superstructure and Superconductivity in $\text{Li}_{\approx 0.7}\text{NbO}_2$ single crystals”

E. G. Moshopoulou, P. Bordet, J. J. Capponi,

Physical Review B **59**, 9590-9599 (1999).

Citations: 21

15. “Superconductivity in the spinel compound LiTi_2O_4 ”,

E. G. Moshopoulou (**invited review**)

Journal of the American Ceramic Society **82**, 3317-3320 (1999).

Citations: 50

16. “Structure and Physical Properties of the Quaternary Remeika-Phase Compound $\text{Yb}_5\text{Pt}_6\text{In}_{16}\text{Bi}_2$ ”,

E. G. Moshopoulou, M. F. Hundley, R. Movshovich, J. D. Thompson, J. L. Sarrao, Z. Fisk, E. Felder, M. Chernikov, D. Pushin, H. R. Ott,

Physical Review B **60**, 4096-4100 (1999).

Citations: 3

17. “Pressure-Induced Superconductivity in Quasi-2D CeRhIn_5 ”,

H. Hegger, C. Petrovic, E. G. Moshopoulou, M. F. Hundley, J. L. Sarrao, Z. Fisk, J. D. Thompson,

Physical Review Letters **84**, 4986-4989 (2000).

Citations: 835

18. “Structural Studies of Charge Disproportionation and Magnetic Order in CaFeO_3 ”,

P. M. Woodward, D. E. Cox, E. G. Moshopoulou, A. W. Sleight, S. Morimoto,

Physical Review B **62**, 844-855 (2000).

Citations: 243

19. “Crystal Growth and Intergrowth Structure of the New Heavy Fermion Compounds CeRhIn_5 and CeIrIn_5 ”,

E. G. Moshopoulou, Z. Fisk, J. L. Sarrao, J. D. Thompson

Journal of Solid State Chemistry **158**, 25-33 (2001).

Citations: 126

20. “Vertical Boundary at $x \approx 0.11$ in the Structural Phase Diagram of the $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ System ($0.08 \leq x \leq 0.125$)”,

D. E. Cox, T. Iglesias, E. G. Moshopoulou, K. Hirota, K. Takahashi, Y. Endoh,
Physical Review B **64**, 024431-9 (2001).

Citations: 61

21. “Low-Temperature Thermal Transport in High Temperature Superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ via Y-Doped Insulating Analogue”,

R. Movshovich, E. G. Moshopoulou, P. Lin, M. B. Salamon, M. Jaime, M. F. Hundley, J. L. Sarrao,
Physical Review B **65**, R1405061-1405064 (2002).

Citations: 2

22. “Neutron-Diffraction Study of Field-Induced Transitions in the Heavy-Fermion Compound Ce_2RhIn_8 ”,

E. G. Moshopoulou, K. Prokes, E. Garcia-Matres, P. G. Pagliuso, J. L. Sarrao, J. D. Thompson,
Physica B **318**, 300-305 (2002).

Citations: 3

23. “Comparison of the Crystal Structure of the Heavy-Fermion Materials CeCoIn_5 , CeRhIn_5 and CeIrIn_5 ”

E. G. Moshopoulou, J. L. Sarrao, P. G. Pagliuso, N. O. Moreno, J. D. Thompson, Z. Fisk, R. M. Ibberson,
Applied Physics A Material Science & Processing, **74** S895-S897 (2002).

Citations: 34

24. “Magnetic Structure of CeRhIn_5 as a Function of Pressure and Temperature”

A. Llobet, J. S. Gardner, E. G. Moshopoulou, J. -M. Mignot, M. Nicklas, W. Bao, N. O. Moreno, P. G. Pagliuso, I. N. Goncharenko, J. L. Sarrao, J. D. Thompson,
Physical Review B **69**, 024403 (2004).

Citations: 89

25. “Crystal Structure of Ce_2RhIn_8 : An Example of Complementary Use of High-Resolution Powder Neutron Diffraction and Reciprocal Space Mapping to Study Complex Materials”,

E. G. Moshopoulou, R. M. Ibberson, J. L. Sarrao, J. D. Thompson, Z. Fisk,
Acta Crystallographica B **62** 173-189 (2006).

Citations: 26

26. “Synthesis and Structural Characterization of In-Doped ZnFe_2O_4 Nanoparticles”,

M. Maletin, E. G. Moshopoulou, A. Kontos, E. Devlin, A. Delimitis, V. T. Zaspalis, L. Nalbandian, V. V. Srdic, *Journal of European Ceramic Society* **27** 4391-4394 (2007).

Citations: 64

27. “The Effect of Yttrium and Indium Doping on the Structure and Electrical Properties of Zinc-Ferrite Nanoparticles”

M. Maletin, E. G. Moshopoulou, S. Jankov, S. Rakic, V. V. Srdic
Solid State Phenomena **128** 101-105 (2007).

Citation: 7

28. “Comparison of the Temperature Dependence of the Crystal Structure of LiTi_2O_4 and LiV_2O_4 ”

E. G. Moshopoulou

Acta Physica Polonica A **113** 399-402 (2008).

Citation: 0

29. “Magnetic properties of ZnFe_2O_4 and In-doped ZnFe_2O_4 nanoparticles”

Marija Maletin, E. G. Moshopoulou, Vladimir V. Srdic

Physica Status Solidi A **205** no. 8, 1831–1834 (2008).

Citations: 12

30. “Specific heat measurements and structural investigation of $\text{CeCu}_{6-x}\text{Sn}_x$ compounds”

O. Isnard, E. G. Moshopoulou, J. Prchal, P. Javorsky, V Sechovský *Journal of Physics Condensed Matter*, **22** (43) art. no. 435602 (2010).

Citations: 1

31. “Probing the Transition from Nano- to Bulk-Like Behaviour in ZnFe_2O_4 Nanoparticles”

E. G. Moshopoulou, O. Isnard, M. Milanovic, V. V. Srdic

Materials Science Forum **674** 207 (2011).

Citation: 2

32. “Synthesis and characterization of silica core/nano-ferrite shell particles”

M. P. Nikolić, B. Mojić, V. V. Srdić, E. G. Moshopoulou

Materials Research Bulletin **47** 1513-1519 (2012).

Citations: 7

33. “Structural and magnetic properties of $\text{Zn}_{1-x}\text{In}_x\text{Fe}_2\text{O}_4$ and $\text{ZnY}_x\text{Fe}_{2-x}\text{O}_4$ nanoparticles prepared by co-precipitation”

M. Milanovic, E. G. Moshopoulou, D. Stamopoulos, E. Devlin, K. Giannakopoulos, A. G. Kontos, K. Eleftheriadis, M. I. Gini, L. M. Nicolic

Ceramics International **39** 3235–3242 (2013).

Citations: 20

34. “Evidence of multiferroicity in NdMn_2O_5 ”

S. Chattopadhyay, V. Balédent, F. Damay, A. Gukasov, E. G. Moshopoulou, P. Auban-Senzier, C. Pasquier, G. André, F. Porcher, E. Elkaim, C. Doubrovsky, M. Greenblatt, and P. Foury-Leykian, *Physical Review B* **93**, 104406 (2016).

Citations 22

36. “Structure response to superconductivity in CeIrIn_5 ”, in preparation.

37. The structure of the heavy fermion paramagnet CeIr_2In_8 ”, in preparation.

B. Book Chapters

“Neutron and synchrotron X-ray scattering studies of bulk and nanostructured multiferroic and ferroelectric materials”

Evagelia G. Moshopoulou, Pascale Foury-Leylekian, Katharine Page, C. Doubrovsky, Martha Greenblatt, Alan J. Hurd

Book title: *Nanoscale ferroelectrics and multiferroics: Key processing and characterization issues, and nanoscale effects*, Published 25 March 2018

Ed. John Wiley & Sons, Ltd; Editors: Miguel Algueró, J. Marty Gregg and Liliana Mitoseriu,; Print ISBN: 9781118935750, Online ISBN: 9781118935743

DOI: 10.1002/9781118935743

C. Refereed Proceedings Papers

1. “Optimization of Materials for Thermoelectric Cooling”,

A. Migliori, T. W. Darling, F. Freibert, S. A. Trugman, E. G. Moshopoulou, J. L. Sarrao, *Materials Research Society Symposium Proceedings* **478**, 231-242 (1997) (ISBN 1-55899-382-7).

Citation: 1

2. “New Approaches to Thermoelectric Cooling Effects in Magnetic Fields”

A. Migliori, T. W. Darling, F. Freibert, S. A. Trugman, E. Moshopoulou, J. S. Sarrao, *Proceedings of the 32nd National Heat Transfer Conference of the American Society of Mechanical Engineers (ASME)*, p. 250-257, Baltimore, MD, 1997.

Citation: 1

3. “New Directions in Materials for Thermomagnetic Cooling”

A. Migliori, F. Freibert, T. W. Darling, J. L. Sarrao, S. A. Trugman, E. G. Moshopoulou, *Proceedings of the Space Technology and Applications International Forum (STAIF-98)*, p.1628-1633, Albuquerque, NM, January 25-29, 1998.

Citation: 1

4. “Structural Studies of Charge Disproportionation and Magnetic Order of CaFeO_3 ”,

E. G. Moshopoulou, P.W. Woodward, D. E. Cox, A. W. Sleight, M. Takano, *Proceedings of the Hercules X Euro-conference New developments and applications of Neutrons and Synchrotron Radiation*, p. M16-M17, Grenoble, France, April 6-9, 2000.

5. “Structural Studies of the New Heavy-Fermion Materials CeRhIn_5 and CeIrIn_5 ”,

E. G. Moshopoulou, Z. Fisk, J. D. Thompson, J. L. Sarrao, *Proceedings of the XIV Condensed Matter Greek Conference*, p. 154-157, Nafplion, Greece, September 17-20, 2000.

6. “Structural Aspects of the New Quasi-2D Heavy-Fermion Materials CeRhIn_5 and CeIrIn_5 and Comparison with the Isostructural U-based Analogues”,

E. G. Moshopoulou, Z. Fisk, J. D. Thompson, J. L. Sarrao *Proceedings of the second Euro-conference and Nuclear Energy Agency (NEA) Workshop on Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources*, p. 271-276, Grenoble, France, September 10-12, 2000.

7. “Neutron Diffraction Study of Magnetic Order in CeRhIn_5 at High-Pressure”

E. G. Moshopoulou, J. –M. Mignot, I. N. Goncharenko, P. G. Pagliuso, J. L. Sarrao, J. D. Thompson,

Proceedings of the international workshop *Outstanding Issues in Unconventional Superconductivity and Magnetism in CeMIn5 (M = Co, Rh, Ir)* organized by the Institute of Complex Adaptive Matter of Los Alamos National Laboratory, p. 1-4, 2/2003, Santa Fe, New Mexico, USA, 4-8/12/2002.

8. “Synthesis and Structural Characterization of Nanocrystalline In-Zn-Ferrites”,
M. Maletin, L. M. Nikolic, V. V. Srdic, E. G. Moshopoulou,
Proceedings of the Sixth Students’ Meeting - SM-2005, *School of Ceramics*
Novi Sad, Serbia and Montenegro, December 1-2, 2005.

9. “Synthesis and Structure of Ferrite Polymer Nanocomposites”
M. Maletin, B. Pilic, V. V. Srdic, E. G. Moshopoulou,
Proceedings of the Seventh Students’ Meeting - SM-2007, *School of Ceramics*
Novi Sad, Serbia and Montenegro, December 6-8, 2007.

10. “Direct Synthesis of nanocrystalline oxide powders by wet-chemical techniques”
V. V. Srdic, R. Djenadic, Milanovic, N. Pavlovic, I. Stijepovic, L. M. Nicolic, E. G. Moshopoulou,
K. Giannakopoulos, J. Dusza, K. Maca,
Proceedings of the final meeting of the Cooperation in Science and Technology Program
“Electroceramics from Nanopowders Produced by Innovative Ways”
Processing and Applications of Ceramics, vol. 4, issue 3, p. 127-134, 2010.

11. Temperature Dependence of the Crystal Structure of the superconductor LiTi_2O_4 and of the heavy fermion LiV_2O_4
Evangelia G. Moschopoulou
Proceedings of the conference “Coherent Superconducting Hybrids and Related Materials” 2018, Les Arcs France.

12. “Structure response to superconductivity in CeIrIn_5 determined by high resolution powder neutron diffraction”
Proceedings of Toposuper2021 – Online conference on emergent topological superconductivity 7-9 June 2021.

Invited Talks

1. “The System $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$: Relations between Li-Content, Crystal Structure and Superconductivity”,
International Symposium *Structure and Property of Spinel Compounds* of the Centennial Meeting of the American Ceramic Society, Cincinnati, Ohio, 3-6 May, 1998.

2. “Modulated Diffuse Scattering from Disordered Crystalline Solids: Scattering Methods and Modeling”,
International Workshop on *Traditional and New Techniques for Studying Short-Range Atomic Order*
organized by the Center for Materials Science, Los Alamos National Laboratory, November 2-4, 1998.

3. “Specific Examples of Classes of Materials That Are of Interest for a Combined High-Field/Neutron-Scattering Facility”,
International Workshop on *The Present Status of High Magnetic Field Technology and the Prospects for Applications to Neutron Scattering Experiments* organized by the Berlin Neutron Scattering Center, Hahn-Meitner Institute, Berlin-Germany, May 28-30, 2001.
4. “Structural Properties of $Ce_mM_nIn_{3m+2n}$, versus m , M , and Temperature”,
International Workshop on *Self-Organized Strongly Correlated Electron Systems*, Santorini-Greece, August 27-30, 2003.
5. “Temperature Dependence of the Crystal Structure of doped- $ZnFe_2O_4$ Nanopowders”
European Meeting *Electroceramics from Nanopowders Produced by Innovative Methods on Processing and Characterization of Nanostructured Systems*, Brussels-Belgium, September 15-16, 2006.
6. “Probing the Nano-Micro Transition in Ferrite Nanoparticles”
European Workshop on *Nanostructured ceramics and nanocomposites - Challenges and perspectives*,
Brussels-Belgium, December 3-5, 2009.
7. “Size dependence of the structure and magnetism in $ZnFe_2O_4$ and In-doped $ZnFe_2O_4$ nanoparticles
European Meeting *Electroceramics from Nanopowders Produced by Innovative Methods on Processing and Characterization of Nanostructured Systems*,
Aveiro-Portugal, October 29-31 2009.
8. “Size dependence of the structure and magnetism in $ZnFe_2O_4$ nanoparticles - role of the spinel structure”
University of Novi Sad Training School
Novi Sad-Serbia, December 2011.
9. Neutron and synchrotron X-ray scattering for advanced structural characterization of nanostructured materials.
National Center for Scientific Research “Demokritos”
Athens-Greece, 27, 28 November 2015.

Conference Presentations (Contributed Talks and Posters)

1. “Evolution of Structure and Superconductivity with Li-Content in $Li_{1-x}Ti_2O_4$ ”, *talk and poster*
E. G. Moshopoulou, P. Bordet, C. Chaillout, J. J. Capponi, B. Souletie, A. Sulpice, M. Marezio; First workshop of the European Network *Superconductors without Copper* of the European Program *Science*, Madrid-Spain, August 1991.
2. “Effect of Doping on the Properties of High- T_c Superconductors”, *poster*
E. G. Moshopoulou, B. Souletie, A. Sulpice, P. Bordet, J. L. Tholence;

External Review Committee Meeting, Grenoble-France, September 1992

3. “Relation between Li-Content and Superconductivity in the $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ ($0 \leq x < 0.75$) Spinel System”, **talk and poster**

E. G. Moshopoulou, P. Bordet;

Second Workshop of the European Network *Superconductors without Copper* of the European Program *Science*, Grenoble-France, October 1992.

4. “Evolution of Structure and Superconductivity with Li-Content in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ ($0 \leq x < 0.75$)”, **poster**

E. G. Moshopoulou, P. Bordet, J. J. Capponi, C. Chaillout, A. Sulpice, B. Souletie;

European Materials Research Society (E.M.R.S.) Meeting, Strasbourg-France, November 1992.

5. “Evolution of Structure and Physical Properties with Li-Content in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ and $\text{Li}_{1-x}\text{NbO}_2$, ($0 \leq x < 0.75$)”, **poster**

E. G. Moshopoulou, P. Bordet, J. J. Capponi, C. Chaillout;

Second workshop of WG 6885-HTSC *The Influence of the Local Structure on the Superconducting Properties of High- T_c Superconductors and Related Systems*, Hydra-Greece, May 5-8, 1993.

6. “Effects of Li-Content and Ti-Network Disorder on the T_c of $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ ($0 \leq x < 0.75$)”, **poster**

E. G. Moshopoulou, P. Bordet, C. Chaillout, J. J. Capponi;

20th Course of the International School of Crystallography *Materials and Crystallographic Aspects of High- T_c Superconductivity*, Erice-Italy, May 1993.

7. “Structure and Physical Properties of $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ and $\text{Li}_{1-x}\text{NbO}_2$ ($0 \leq x < 0.75$)”, **talk and poster**

E. G. Moshopoulou, P. Bordet, J. J. Capponi, M. Marezio; talk and poster

Third Workshop of the European Network *Superconductors without Copper* of the European Program *Science*, Barcelona-Spain, June 1993.

8. “Electron Diffraction Study of the Ti-network Disorder in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ ($0 \leq x < 0.75$)”, **poster**

E. G. Moshopoulou, P. Bordet, C. Chaillout, J. J. Capponi;

XVI International Union of Crystallography Meeting, Beijing-China, August 1993.

9. “Structure-Properties Relationship in the Superconducting Systems $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ and $\text{Li}_{1-x}\text{NbO}_2$ ($0 \leq x < 0.75$)”, **poster**

E. G. Moshopoulou, P. Bordet, J. J. Capponi;

Third International Workshop *Chemistry and Technology of High T_c Superconductors*, Moscow-Russia, 20-23 September 1993.

10. “Relation between Crystal Structure and Superconductivity in the Systems $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ and $\text{Li}_{1-x}\text{NbO}_2$ ($0 \leq x < 0.75$)”, **talk**

E. G. Moshopoulou, P. Bordet, J. J. Capponi;

Annual Conference *Physics in Clips*, Grenoble-France, December 1993.

11. “Relations between Li-Content, Crystal Structure and Physical Properties of $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ and $\text{Li}_{1-x}\text{NbO}_2$ ”, **talk and poster**

E. G. Moshopoulou, P. Bordet, J. J. Capponi;

Fourth Workshop of the European Network *Superconductors without Copper* of the European Program *Science*, Oxford-UK, May 1994.

12. “Evolution of Structure and Superconductivity in $\text{Li}_{1-x}\text{Ti}_2\text{O}_4$ without Ti-Cation Disorder”, **poster**
E. G. Moshopoulou, P. Bordet, A. Sulpice, J. J. Capponi;
International Conference on *Materials and Mechanisms of High- T_c Superconductivity (M^2S -HTSC IV)*, Grenoble-France, July 1994.

13. “Structure and Physical Properties of $\text{Li}_{1-x}\text{NbO}_2$ Single Crystals”, **poster**
E. G. Moshopoulou, P. Bordet, J. J. Capponi;
International Conference on *Materials and Mechanisms of High- T_c Superconductivity (M^2S -HTSC IV)*, Grenoble-France, July 1994.

14. “Effects of the Decrease of the Li-Content on the Crystal Structure and Physical Properties of $\text{Li}_{1-x}\text{NbO}_2$ Single Crystals”, **poster**
E. G. Moshopoulou, P. Bordet, J. J. Capponi;
Fourth Workshop of WG 6885-HTSC on *the Influence of Local Structure on the Superconducting Properties of High- T_c Superconductors and Related Systems*, Darmstadt-Germany, October 1994.

15. “Single Crystal X-ray and Electron Diffraction Study of the Superconductor $\text{Li}_{0.7}\text{NbO}_2$ ”, **poster**
E. G. Moshopoulou, P. Bordet, J. J. Capponi;
Annual meeting of the French Crystallographic Association, Grenoble-France, January 24-27, 1995.

16. “Growth and Crystal Structure of SrB_6 ”, **poster**
E. G. Moshopoulou, Z. Fisk, J. D. Thompson;
March meeting of the American Physical Society, Saint-Louis, Missouri, March 18-22, 1996.

17. “The $5f$ Band Structure of Antiferromagnetic USb_2 from APRES: Application to Heavy Fermions”, **talk**
J. J. Joyce, A. J. Arko, A. B. Andrews, D. Mandrus, E. G. Moshopoulou, Z. Fisk, P. C. Canfield;
March meeting of the American Physical Society, Saint-Louis, Missouri, March 18-22, 1996.
Bulletin of the American Physical Society **41(1)**, 413 (1996).

18. “Electron and Neutron Diffraction Study of the Disorder in $\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.5}\text{O}_4$ by Electron and Neutron Diffraction”, **poster**
E. G. Moshopoulou, Z. Fisk, J. D. Thompson;
XVII Congress and General Assembly of the International Union of Crystallography, Seattle, Washington, August 8-17, 1996.
Collected Abstracts 1996, PS10.05.29.

19. “Crystal Structure and Physical Properties of a New Yb-Based Heavy Fermion Compound”, **talk and poster**
E. G. Moshopoulou, Z. Fisk, M. F. Hundley, J. D. Thompson, R. Movshovich, H. R. Ott;
March meeting of the American Physical Society, Kansas City, Missouri, March 17-21, 1997.
Bulletin of the American Physical Society **42(1)**, 435 (1997).

20. “Ferromagnetism in $\text{La}_5\text{Pb}_3\text{Mn}$ ”, **talk and poster**
M. E. Torelli, J. L. Sarrao, Z. Fisk, E. G. Moshopoulou, J. D. Thompson;

March meeting of the American Physical Society, Kansas City, Missouri, March 17-21, 1997.
Bulletin of the American Physical Society vol. **42(1)**, 564 (1997).

21. “Structural, Magnetic and Transport Properties of $\text{La}_2\text{Cu}_{1-x}\text{Li}_x\text{O}_4$ ”, *invited talk* (given by J. L. Sarrao) *and poster*

J. L. Sarrao, E. G. Moshopoulou, Z. Fisk, J. D. Thompson, P. C. Hammel, Y. Yoshinari, R. Heffner;
March meeting of the American Physical Society, Kansas City, Missouri, March 17-21, 1997.
Bulletin of the American Physical Society **42(1)**, 805 (1997)

22. “Electronic Structure of the Heavy Fermions: Narrow, Temperature Independent *f*-Bands”, *talk*
J. L. Smith, J. J. Joyce, A. J. Arko, A. B. Andrews, R. J. Bartlett, J. D. Thompson, E. G. Moshopoulou, Z. Fisk, P. C. Canfield, A. Menovsky;

March meeting of the American Physical Society; Kansas City, Missouri, March 17-21, 1997.
Bulletin of the American Physical Society **42(1)**, 233 (1997).

The same work was also presented at:

- i) The International Conference on *Strongly Correlated Electron Systems*; Zurich-Switzerland, August 1996
- ii) Los Alamos Fellows Workshop; Los Alamos, New Mexico, December 1996
- iii) University of Nevada, Las Vegas, Nevada, January 1997
- iv) 3rd Prague Colloquium on *f-Electron Systems*; Prague-Czech, August 1997
- v) National High Magnetic Field Laboratory Workshop on *Correlated Electron Materials*; Camp Weed, Florida, October 1997.

23. “Angle-Resolved Photoemission in *5f* Electron Systems: Narrow *5f* bands”, *talk*

A. J. Arko, J. J. Joyce, L. E. Cox, J. D. Thompson, M. F. Hundley, Z. Fisk, E. G. Moshopoulou, A. Menovsky;
International Conference *Actinides '97*, Baden-Baden, Germany, September 21-26, 1997.

24. “Correlated Electron Materials and Physics”, *poster*

J. D. Thompson, Z. Fisk, P. C. Hammel, R. H. Heffner, M. F. Hundley, E. G. Moshopoulou, R. Movshovich, R. D. Taylor, Y. Yoshinari;
External Review Committee for Evaluation of the Materials Science Division of Los Alamos National Laboratory, Los Alamos, New Mexico, April 3-5, 1997.

25. “Electron Diffraction Study of $\text{La}_2\text{Li}_{0.5}\text{Cu}_{0.5}\text{O}_4$ ”, *poster*

E. G. Moshopoulou, J. D. Thompson, Z. Fisk, J. L. Sarrao,
Conference on *Spectroscopies on Novel Superconductors, SNS'97*, Cape Cod, Massachusetts, September 14-18, 1997.

26. “Crystal Growth, Structural Characterization and Physical Properties of the New Heavy-Fermion Compounds CeRhIn_5 and CeIrIn_5 ”, *talk*

E. G. Moshopoulou, Z. Fisk, M. F. Hundley, R. Movshovich, J. L. Sarrao, J. D. Thompson;
March meeting of the American Physical Society, Los Angeles, California, March 16-20, 1998.
Bulletin of the American Physical Society **43(1)**, 873 (1998).

27. “Magnetic Response of the “Kondo Insulator” $\text{Ce}_3\text{Bi}_4\text{Pt}_3$ to very high magnetic fields”, *talk* (given by J. D. Thompson) *and poster*

J. D. Thompson, R. Modler, D. G. Rickel, E. G. Moshopoulou, P. C. Canfield, Z. Fisk; March meeting of the American Physical Society, Los Angeles, California, March 16-20, 1998. *Bulletin of the American Physical Society* **43(1)**, 242 (1998).

28. “Synthesis and Physical Properties of the Remeika-phase compounds $R_3Pt_4In_{13}$ ”, *talk* (given by M. F. Hundley) *and poster*

M. F. Hundley, E. G. Moshopoulou, J.D. Thompson, R. Modler, R. Movshovich, Z. Fisk; March meeting of the American Physical Society, Los Angeles, California, March 16-20, 1998. *Bulletin of the American Physical Society* **43(1)**, 873 (1998).

29. “CeAlSi and Related Low-Carrier Ferromagnets”, *talk* (given by Z. Fisk) *and poster*

Z. Fisk, M. F. Hundley, J. D. Thompson, A. J. Arko, J. J. Joyce, E. G. Moshopoulou, R. Modler; March meeting of the American Physical Society, Los Angeles, California, March 16-20, 1998. *Bulletin of the American Physical Society* **43(1)**, 872 (1998).

30. “Low-Temperature Lattice and Quasi-particle Thermal Conductivity in Some Pure and Doped Bi-2212 Systems”, *talk* (given by R. Movshovich) *and poster*

R. Movshovich, M. Jaime, J. L. Sarrao, E. G. Moshopoulou, J. D. Thompson; March meeting of the American Physical Society, Atlanta, Georgia, March 20-26, 1998. *Bulletin of the American Physical Society* **44(1)**, 1865 (1999).

31. “Comparison of the Structural and Physical Behavior of $CeIn_3$ and $CeIrIn_5$ $CeRhIn_5$ ”, *talk*

E. G. Moshopoulou, Z. Fisk, M. F. Hundley, R. Modler, R. Movshovich, J. D. Thompson; March meeting of the American Physical Society, Atlanta, Georgia, March 20-26, 1999. *Bulletin of the American Physical Society* **44(1)**, 1378 (1999).

32. “Structural Studies of Charge Disproportionation and Magnetic Order in $CaFeO_3$ ”, *talk*

E. G. Moshopoulou, P. M. Woodward, D. E. Cox, A. W. Sleight, S. Morimoto; *Bulletin of the American Physical Society* **45**, 587 (2000).

33. “Structural Studies of Charge Disproportionation and Magnetic Order in $CaFeO_3$ ”, *talk and poster*

E. G. Moshopoulou, P. M. Woodward, D. E. Cox, A. W. Sleight, S. Morimoto; Higher European Research Course for Users of Large Experimental Systems on *New Developments and Applications of Neutron and Synchrotron Radiation*, Grenoble-France, April 6-9, 2000.

34. “Structural Characteristics of the New Quasi-2D Heavy-Fermion Materials $CeIrIn_5$ and $CeRhIn_5$ and Comparison with the Isostructural U-based Analogues”, *poster*

E. G. Moshopoulou, Z. Fisk, J. L. Sarrao J. D. Thompson; Second EuroConference and Nuclear Energy Agency (NEA) Workshop on *Speciation, Techniques and Facilities for Radioactive Materials at Synchrotron Light Sources*, Grenoble-France, September 10-12, 2000. *Book of Abstracts* p. 49.

35. “Structural Studies of the New Heavy-Fermion Systems $CeRhIn_5$ and $CeIrIn_5$ ”, *talk*

E. G. Moshopoulou; XVI Greek Solid State Physics Conference, Nafplion-Greece, September 17-20, 2000.

36. “Crystal Structure, Superconductivity and Magnetism in the New Class of Heavy-Fermion Materials $Ce_mT_nIn_{3m+2n}$ ($m = 1, 2; n = 0, 1; T = Co, Rh, Ir$)”, **poster**
E. G. Moshopoulou, Z. Fisk, P. G. Pagliuso J. L. Sarrao J. D. Thompson;
EuroConference *Transport and Dynamics in Complex Electronic Materials*, Porto-Portugal, September 3-7, 2001.
Book of Abstracts p. 61.
37. “Comparison of the Crystal Structure of the Heavy-Fermion Materials $CeCoIn_5$, $CeRhIn_5$ and $CeIrIn_5$ ”, **poster**
E. G. Moshopoulou, J. L. Sarrao, P. G. Pagliuso, N. O. Moreno, J. D. Thompson, Z. Fisk, R. M. Ibberson;
International Conference on Neutron Scattering 2001, Munich-Germany, September 9-13, 2001.
Book of Abstracts p. 126.
38. “Neutron-Diffraction Study of Field-Induced Transitions in the Heavy-Fermion Compound Ce_2RhIn_8 ”, **talk**
E. G. Moshopoulou K. Prokes, E. Garcia-Matres, P. G. Pagliuso, J. L. Sarrao, J. D. Thompson;
EuroConference on *Properties of Condensed Matter Probed with X-ray Scattering*, Patra-Greece, September 21-25, 2001.
Book of Abstracts p. 26.
39. “Structural Properties of the Heavy-Fermion Materials $Ce_mM_nIn_{3m+2n}$ ($m = 1, 2; n = 0, 1; M = Co, Rh, Ir$)”, **poster**
E. G. Moshopoulou, R. M. Ibberson, P. G. Pagliuso, J. L. Sarrao, Z. Fisk, J. D. Thompson;
International Workshop on *Non-Fermi-Liquid Physics in Transition Metal and Rare-Earth Compounds* organized by the European Science Foundation Program *Fermi-Liquid Instabilities in Correlated Metals (FERLIN)*, Bled-Slovenia, May 23-25, 2002.
Book of Abstracts p. 31.
40. “Structural Properties of the Heavy Fermion Materials $Ce_mT_nIn_{3m+2n}$ ($m = 1, 2; n = 0, 1; T = Co, Rh, Ir$)”, **poster**
E. G. Moshopoulou, R. M. Ibberson, P. G. Pagliuso, J. L. Sarrao, Z. Fisk, J. D. Thompson;
Gordon Research Conference on *Correlated Electron Systems*, Waterville, Maine, June 29-July 3, 2002.
41. “Neutron Diffraction Studies of the Heavy-Fermion Materials $Ce_mT_nIn_{3m+2n}$ ($m = 1, 2; n = 0, 1; T = Co, Rh, Ir$)”, **talk**
E. G. Moshopoulou, J. M. Mignot, R. M. Ibberson, I. N. Goncharenko, P. G. Pagliuso J. L. Sarrao, J. D. Thompson, Z. Fisk;
XVIII Greek Solid State Physics Conference, Heraklion-Greece, September 15-18, 2002.
Book of Abstracts p. 37.
42. “Neutron Diffraction Study of Magnetic Order in $CeRhIn_5$ at high-pressure: a progress report”, **talk and poster**
E. G. Moshopoulou, J. –M. Mignot, I. N. Goncharenko, P. G. Pagliuso, J. L. Sarrao, J. D. Thompson;
International Workshop on *Outstanding Issues in Unconventional Superconductivity and Magnetism in $CeTIn_5$ ($T = Co, Rh, Ir$)*, Santa Fe, New Mexico U.S.A., 4-8/12/2002.

43. “Crystal and Magnetic Structure of CeRhIn₅ versus Pressure”, *talk and poster*
E. G. Moshopoulou, J. –M. Mignot, I. N. Goncharenko, A. Llobet, J. L. Sarrao, J. D. Thompson;
International Workshop on *Non-Ambient Crystallography: The Science of Change*,
Lawrence Berkeley National Laboratory, Berkeley, California, U.S.A., 4-7/12/2003.
Book of Abstracts p. 36.
44. “Synthesis and Structural Characterization of In-Doped ZnFe₂O₄ Nanoparticles”, *talk*
E. G. Moshopoulou, M. Maletin, A. Kontos, E. Devlin, A. Delimitis, V. V. Srdic;
Electroceramics X, Toledo-Spain, June 18-22, 2006.
Book of Abstracts p. 37.
45. “Synthesis and Structural Characterization of In-Doped ZnFe₂O₄ Nanoparticles”, *talk*
E. G. Moshopoulou, M. Maletin, A. Kontos, E. Devlin, A. Delimitis, V. V. Srdic;
Electroceramics X, Toledo-Spain, June 18-22, 2006
46. “Doped Ferrite Nanoparticles: Synthesis and Basic Structural Characterization”, *poster*
E. G. Moshopoulou, M. Maletin, V. V. Srdic;
Center of Integrated Nanotechnologies, User’s Meeting, Sandia National Laboratories, Albuquerque,
January 12-13, 2006.
47. “Temperature Dependence of the Crystal Structure of ZnCr₂O₄ Powders” *talk*
E. G. Moshopoulou, O. Isnard, V. V. Srdic;
Meeting of the COST Action “Electroceramics from Nanopowders Produced by Innovative
Methods” on “Processing and Characterization of Nanostructured systems”, Brussels-Belgium,
September 15-16, 2006.
48. “Comparison of the Structural Properties of LiTi₂O₄ and LiV₂O₄”, *poster*
E. G. Moshopoulou, R. M. Ibberson;
8th Prague Colloquium on f-electron systems, Prague-Czech Republic, September 8-11, 2006.
49. “Synthesis of Y-doped ZnFe₂O₄ Nanoparticles, *poster*
E. G. Moshopoulou, M. Maletin, V. V. Srdic;
Center of Integrated Nanotechnologies User’s Meeting, Albuquerque, January, 2007.
50. “Recent Advances on Doped Ferrite Nanoparticles”, *talk*
E. G. Moshopoulou, M. Maletin, V. V. Srdic;
General Workshop and Management Committee Meeting of the COST Action “Electroceramics
from Nanopowders Produced by Innovative Methods”, Berlin-Germany, June 2007.
51. “Very High Magnetic Field Studies of the Unconventional Correlated Electron Systems LiV₂O₄
and LiTi₂O₄”, *poster*
E. G. Moshopoulou, J. Singleton, A. Lacerda;
International Workshop on *Heavy-Fermion Frontier*, Santa Fe NM, November 11 - 14 2007.
52. “The Influence of In-doping on the Magnetic and Dielectric Properties of Zn-Ferrite
Nanoparticles”, *poster*
M. Maletin, V. V. Srdic, S. Rakie, E. G. Moshopoulou;

International Workshop on Fabrication, Properties and Applications of Electroceramic Nanostructures, Genoa, Italy, June 26-28, 2008.

Book of Abstracts p. 67.

53. “Structure-Property relationships in In-doped ZnFe₂O₄ nanoparticles”, *poster*

M. Maletin, V. V. Srdic, E. G. Moshopoulou;

Annual Meeting of the American Crystallographic Association, Knoxville TN, May 31 - June 5 2008.

54. “Evolution of the magnetic properties as a function of size of ZnFe₂O₄ and In-doped ZnFe₂O₄”,

poster

Marija Maletin, Evagelia G. Moshopoulou, and Vladimir V. Srdic;

ECERS - 11th International Conference and Exhibition of the European Ceramic Society, Krakow, Poland, June 21 - 25 2009.

55. “Probing the Transition from Nano- to Bulk-like Behavior in ZnFe₂O₄ Nanoparticles”, *poster*

Evagelia G. Moshopoulou, Olivier Isnard, Marija Milanovic, Vladimir V. Srdic;

E-MRS 2010 Fall Meeting, Warsaw Poland, 13 - 17 September 2010.

56. “Size dependence of the structure and magnetism in ZnFe₂O₄”, *talk*

E. G. Moshopoulou, M. Milanovic, K. Giannakopoulos, O. Isnard, E. Devlin, D. Stamopoulos, A. Kontos, V. V. Srdic;

E-MRS 2011 Spring Meeting, Nice France, 9 - 13 May 2011.

57. “Synchrotron X-ray scattering studies of disordered and nanostructured materials”, *poster*

Evagelia G. Moshopoulou, Olivier Isnard, Marija Milanovic;

ADD2011 Workshop on Analysis of Diffraction Data in Real Space, Grenoble, 12-14 October 2011.

58. “Dielectric and thermal response of ZnO/epoxy resin nanocomposites”. *poster*

C. Tsonos, A. Kanapitsas, G. C. Psarras, E. G. Moshopoulou, S. Thanos, Th. Speliotis,

7th International Meeting on Relaxations on Complex Systems, Barcelona, Spain. 21-26 July 2013.

59. “Barium Ferrite/epoxy resin nanocomposite as a multifunctional nanomaterial system: development, dielectric response, magnetic properties and energy storage”, *poster*

Th. Speliotis, E. G. Moshopoulou, S. Thanos, A. Kanapitsas, C. Tsonos, G. C. Psarras,

The 5th International Conference on Structural Analysis of Advanced Materials (ICSAAM 2013), Island of Kos, Greece, 23-26 September 2013.

60. “Structural investigations of the crystallization of fresnoite in nanostructured BaTiO₃/SiO₂ composite ceramics”, *poster*

Evagelia G. Moshopoulou, U-Chan Chung, Catherine Elissalde, Katharine Page, Mario Maglione,

Mesoscale Science Frontiers 34th CNLS Annual Conference, Santa Fe, USA, May 13-16 2014.

61. “Dielectric and Magnetic Properties of Barium Ferrite/Epoxy resin nanocomposite system”,

poster

Th. Speliotis, E. G. Moshopoulou, S. Thanos, A. Kanapitsas, C. Tsonos, G. C. Psarras,

2nd USA International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT-USA 2014), Houston, Texas, USA, 19-22 May 2014.

62. “Synchrotron X-Ray Scattering Studies of polycrystalline and single crystalline multiferroic material NdMn_2O_5 ”,

Poster

Evagelia Moshopoulou, E. Elkaim, C. Doubrovsky, M. Greenblatt, P. Foury-Leylekian
Towards Oxide-Based Electronics COST Meeting, University of Warwick, UK 6-8 April 2016.

63. “Synchrotron X-ray diffraction studies of NdMn_2O_5 and related systems”

Evagelia Moshopoulou, E. Elkaim, C. Doubrovsky, M. Greenblatt, P. Foury-Leylekian

poster

EuroMat 2017, 17 – 22 September 2017, Thessaloniki, Greece.

64. “Structural investigations of the crystallization of fresnoite in nanostructured $\text{BaTiO}_3/\text{SiO}_2$ composite ceramics”

poster

Evagelia G. Moshopoulou, Catherine Elissalde, Katharine Page, Mario Maglione
Center for Integrated Nanotechnologies Users’ Meeting 25-27 September 2017, Santa Fe NM USA.

65. Temperature Dependence of the Crystal Structure of the superconductor LiTi_2O_4 and of the heavy fermion LiV_2O_4

talk

Evagelia G. Moshopoulou

Workshop “Coherent Superconducting Hybrids and Related Materials” 26-29 March, 2018, Les Arcs France.

66. NSLS-II CFN Users’ Meeting-Online Conference-BNL, 17-18 May 2021.

67. Technologies for Neuroengineering (Nature Conference), Online Conference 26-28 May 2021.

68. Toposuper2021 – Online conference on emergent topological superconductivity 7-9 June 2021.

69. Superconducting Hybrids @ Extreme – hybrid online in-person meeting (Slovakia) 28th June to 02 July 2021.

70. CINT Users Online Meeting 21-22 September 2021.

Workshops Attendance

1. *Correlated Electron Program: Forty-Five Years of Many Body Theory*, Materials Science and Technology Division, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 21/8-1/9/1995.

2. *Many Body Physics*, Center for Materials Science, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 21-30/8/1996.

3. *Electronic Structure and Experimentation in Plutonium*, Center for Materials Science, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 25-26/6/1997.
4. *Spin-Charge-Lattice Coupling in Complex Electronic Materials*, Center for Materials Science, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 12-14/8/1997.
5. *Many Body Physics*, Center for Materials Science, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 13-26/8/1997.
6. National High Magnetic Field Laboratory Workshop on *Correlated Electron Materials*, Camp Weed, Florida, U.S.A., 10/1997.
7. *Probing Frontiers in Matter with Neutron Scattering*, Center for Materials Science and Los Alamos Neutron Science Center, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 12-14/12/1997.
8. *Using Powder Diffraction Data to Solve Complex Crystal Structures*, National Synchrotron Light Source, Brookhaven National Laboratory, Upton, New York, U.S.A., 18-19/5/1998.
9. *Materials under High Pressure*, National Synchrotron Light Source, Brookhaven National Laboratory, Upton, New York, U.S.A., 19-20/5/1998.
10. *Traditional and New Techniques for Studying Short-Range Atomic Order*, Center for Materials Science, Los Alamos National Laboratory, Los Alamos, New Mexico, U.S.A., 2-4/11/1998.
11. *Exotic Oxides*, Physics Department, Brookhaven National Laboratory, Upton, New York, U.S.A., 18-20/3/1999.
12. *Structure Solution from powder diffraction*, National Synchrotron Light Source, Brookhaven National Laboratory, Upton, New York, U.S.A., 28/5/1999.
13. *The Present Status of High Magnetic Field Technology and the Prospects for Applications to Neutron Scattering Experiments*, Berlin Neutron Scattering Center, Hahn-Meitner-Institut, Berlin, Germany, 28-30/5/2001.
14. *Nanoscience and Bio-nanoscience Research Meeting*, Stanford Linear Accelerator, Stanford, California, September 23, 2004.
15. *Electroceramics from Nanopowders Produced by Innovative Methods*, Toledo-Spain, June 19, 2006.
16. *Emergent Behavior in Correlated Matter* shared with the *8th Prague Colloquium on f-electron systems*, Prague, Czech Republic, September 8-11, 2006.
17. *Electroceramics from Nanopowders: Processing and Characterization*, Athens-Greece, November 3-4, 2007.
18. *International Workshop on Heavy-Fermion Frontier*, Santa Fe NM, November 11-14 2007.

19. *Structural and Functional Characterization of Complex Materials*, Chalkidiki, Greece, June 3-5, 2010.

20. *Processing and properties of nanostructured single- and multiphase ferroics and multiferroics: Strengths, needs and joint initiatives*, Bordeaux, France, June 30-July 1, 2011.

21. “*Advanced characterization and functional properties of ferroelectrics and multiferroics*”, Vilnius, Lithuania, April 23rd, 2012.

22. *International Workshop on Synchrotron X-ray Powder and Electron Crystallography*, University of Patras, Greece, July 8-12, 2013.

23. 3rd Hellenic Forum for Science, Technology and Innovation, National Center for Scientific Research “Demokritos”, Agia Paraskevi, Greece, June 29-July 3, 2015.

24. “Accelerator Technology for Society” National Center for Scientific Research “Demokritos”, Agia Paraskevi, Greece, Agia Paraskevi, Greece, July 1st, 2015.

International Schools Attendance

1. Higher European Research Course for Users of Large Experimental Systems (HERCULES) on *Neutrons and Synchrotron Radiation for Condensed Matter Studies*, Grenoble-France, February 14 - April 2, 1993.

2. International School of Crystallography, 20th Course on *Materials and Crystallographic Aspects of High- T_c Superconductivity*, Erice-Italy, May 17 - 29, 1993.

3. Quantitative Imaging with X-rays and Neutrons (19th Hercules Specialized School), European Synchrotron Radiation Facility (ESRF) Grenoble-France, May 15 – 19, 2017.

4. Czech-Bavarian MINI-SCHOOL 2020 on Large Scale Facilities and Open Data, moved online, due to the Covid-19 pandemic, October 19 - 22 2020.

Memberships

1. Materials Research Society
2. American Physical Society
3. American Crystallographic Association
4. French Crystallographic Association
5. Hellenic Society for the Science and Technology of Condensed Matter

6. Institute of Physics
7. Hellenic Crystallographic Association

Languages and Cultures

Greek (native)
French
English