

Curriculum Vitae of Michael Pissas

Address-studies-career

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Studies: Ph.D. in Physics (Superconductivity) from School of Applied Mathematical and Physical Sciences of National Technical University of Athens (1992), DOI [10.12681/eadd/1925](https://doi.org/10.12681/eadd/1925). Diploma in Mining and Metallurgical Engineering from School of Mining and Metallurgical Engineering of National Technical University of Athens (Graduated first in class 8.75) (1997).

Career: Director of Research (2005)-, Senior Researcher (1998-2004) IMS, Assistant Researcher (1995-1997), Visiting Researcher at Centre de Recherches sur les Tres Basses Temperatures, CNRS, Grenoble France (1-7-96 - 31-7-97). Research Associate (1993-1995) IMS, Military service: Greek Navy (1992).

Research interests

His research interests encompass research topics in superconductivity, magnetism and materials science. He is responsible for the activities related with superconductivity, and magnetism in transition metal/rare earth mixed oxides. He is also head of the magnetic and physical properties laboratory equipped with the SQUID magnetometer and the Physical properties measuring system (PPMS).

I study important current problems of the solid state and molecular physics. The materials of his interest are transition metal perovskite based oxides, magnetoelectric materials, ferromagnetic/antiferromagnetic oxides, High-Tc superconductors, MgB₂, iron pnictides/selenides, lithium based oxides, magnetic nanoparticles, and magnetic inorganic molecules.

My research is focused on understanding high-temperature superconductivity, the mixed valence problem, magneto-resistive materials, metal-insulator transitions the charge ordering phenomenon, electronic phase separation, charge/spin density waves, propagation of the electromagnetic waves in magnetized ferrites and molecular magnetism. He investigates the above systems using global and local magnetic measurements, x-ray and neutron diffraction data, Mossbauer, NMR and EPR spectrometers.

In addition, significant research effort has been devoted for studies in vortex dynamics and vortex matter phase diagram of type II superconductors. The magnetic properties of the superconductors are studied using several experimental techniques including local magnetization and ac/dc-susceptibility measurements using microscopic Hall sensors and bulk probes, and SQUID bulk magnetic measurements.

I have also worked in the field of non-destructive evaluation (magnetism-based crack detection methods), and the magnetic characterization of industrial magnetic steels and pharmaceutical compounds containing magnetic phases.

Since 2006 lectures one semester graduate course in Classical Electromagnetism in post graduate program: "Physics and Technological Applications", co-organized by School of Applied Mathematical and Physical Sciences of National Technical University of Athens and the NCSR Demokritos. He has supervised over 6 students for their Diploma dissertation, 12 students for MPhil thesis and 4 students for PhD thesis. Dr. M, Pissas has published more than 190 research papers (> 2900, h-factor of: 31). He managed research grants in excess of 1M€.

Honors and Awards:

Award from the Technical Chamber of Greece 1982-1983, Scholarship from State Scholarship Foundation 1983-1984, Scholarship from State Scholarship Foundation 1984-1985, Scholarship from State Scholarship Foundation 1985-1986, Medal "G. Papastamatiou" from Board of Directors of IGME since graduated first from department of Metallurgy Engineer of National Technical University of Athens., Fellowship from Greek Atomic Energy Commission (1987-1991), Award in VI Hellenic Conference on Solid State Physics.

Education activities:

I have supervised over 6 students for their Diploma dissertation, 14 students for MPhil thesis and 4 students for PhD thesis.

1. Teaching (2006-) of graduate course "ELECTROMAGNETISM I, of the graduate program "Physics and technological applications", co-organized by the School of Applied Mathematical and Physical Sciences of National Technical University of Athens and NCSR Demokritos. A book 700 pages has been written to help graduate students.
2. Participation in the graduate course "Experimental methods" of the graduate program "Physics and technological applications", co-organized by the School of Applied Mathematical and Physical Sciences of National Technical University of Athens and NCSR Demokritos. Michael Pissas is responsible for the experimental lesson Magnetic measurements. A set of notes (150 pages) has been written to help students.
3. Participation in the undergraduate course "Methods of material characterization" (School of Applied Mathematical and Physical Sciences of National Technical University of Athens and IMS Demokritos). Michael Pissas is responsible for the experimental lesson Magnetic measurements.

Monographs book chapters

1. Low-Dimensional Solids Wiley (ISBN 978-0470-99751-2), chapter 5 Magnesium diboride MgB_2 : A simple compound with important properties. M. Pissas
2. Leading edge superconductivity research developments (ISBN 978-160456-017-6), Chapter 1 Exchange biased and plain superconducting –ferromagnetic layered hybrids and their possible applications, D. Stamopoulos, E. Manios and M. Pissas.)
3. Exchange biased and plain superconducting ferromagnetic layered hybrids (ISBN-978-1-60692-643-7) D. Stamopoulos, E. Manios and M. Pissas.
4. Magnesium Diboride MgB_2 superconductor research (ISBN-978-1-60456-566-9) Chapter 3 Surveying the vortex matter phase diagram for pristine MgB_2 and atomic substituted $Mg_{1-x}Al_xB_2$ and $MgB_{2-x}C_x$ single crystals. D. Stamopoulos and M. Pissas.
5. Text book: Introduction to superconductivity, Greek Open University.
6. "Unique Magnetic Properties" Michael Pissas, Vassilis Psycharis, Catherine Raptopoulou and Yiannis Sanakis <https://doi.org/10.1002/9783527809929.ch2> in "Single-Molecule Magnets: Molecular Architectures and Building Blocks for Spintronics", Editor(s): Małgorzata Hołyńska, First published:12 October 2018 Online, ISBN:9783527809929,
7. Other Techniques to Study Single-Molecule Magnets (Pages: 173-243) Yiannis Sanakis Vassilis Psycharis Michael Pissas Catherine Raptopoulou, <https://doi.org/10.1002/9783527809929.ch5>, in "Single-Molecule Magnets: Molecular Architectures and Building Blocks for Spintronics", Editor(s): Małgorzata Hołyńska First published:12 October 2018, Online ISBN:9783527809929,
8. Varouti E., Manios E., Tsiachristos I., Alexandridis A., Pissas M. (2020) Microwave Characterization of $Y_3Fe_5O_{12}$ Ferrite Under a dc-Magnetic Field. In: Kaidatzis A., Sidorenko S., Vladymyrskyi I., Niarchos D. (eds) Modern Magnetic and Spintronic Materials. NATO Science for Peace and Security Series B: Physics and Biophysics. Springer, Dordrecht. https://doi.org/10.1007/978-94-024-2034-0_2

Invited talks/oral presentations

- 1 **"Magnetic and Superconducting materials: Theory and Applications" Part A**, European School of Antennas 2019, "ADVANCED MATERIALS FOR ANTENNAS AND MICROWAVE DEVICES", (LBORO-NCSR) LOUGHBOROUGH, June 10-14 2019. (oral 2h presentation)
- 2 **"Magneto-dielectric materials for microwave applications, Part B**, European School of Antennas 2019, "ADVANCED MATERIALS FOR ANTENNAS AND MICROWAVE DEVICES", (LBORO-NCSR) LOUGHBOROUGH, June 10-14 2019. (oral 2h presentation)
- 3 **"Magnetoelectric materials"**, Advanced Training Course "Spintronics Radar Detectors", Advanced Training Course "Spintronics Radar Detectors", Athens, Greece 14-18 October 2019 (oral 2h presentation)
- 4 **"Magnetic materials for microwave engineering"**, Advanced Training Course "Spintronics Radar Detectors", Advanced Training Course "Spintronics Radar Detectors", Athens, Greece 14-18 October 2019. (oral 2h presentation)
- 5 **A specific heat study of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($0 \leq x \leq 1$)**, 9th Workshop on Current Trends in Molecular and Nanoscale Magnetism, May 27-31, 2019, Rhodes (oral).
- 6 **Slow magnetic relaxation in ferrimagnetic $\text{Y}_3\text{Fe}_5\text{O}_{12}$** , 8th North America-Greece-Cyprus Workshop on Paramagnetic Materials, 8th NAGC 2018, Sparta Greece 18-22 June 2018 (oral)
- 7 **AC Response of the $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Superconductor in the Liquid Abrikosov State**, 5th HELLENIC FORUM FOR SCIENCE, TECHNOLOGY & INNOVATION 6/7/2017 Forum Demokritos
- 8 **Properties of magnetic materials**, COST Action TD 1402: Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy (RADIOMAG), Training School 21-23/11/2016 Athens, (oral presentation).
- 9 **Ac susceptibility measurements in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ superconductor**, 6th Workshop on "Current trends in Molecular and Nanoscale Magnetism" Pylos, Greece 9-13 October 2016 (oral presentation)
- 10 **Magnetic and Superconducting materials: Theory and Applications**, European School of Antennas 2016 "ADVANCED MATERIALS FOR ANTENNAS" (LBORO-NCSR) ATHENS, June 20-24 2016 (oral presentation).
- 11 **Magneto-dielectric materials for microwave applications**, European School of Antennas 2016 "ADVANCED MATERIALS FOR ANTENNAS" (LBORO-NCSR) ATHENS, June 20-24 2016 (oral presentation).
- 12 **Magnetic materials for microwave and antenna applications** Workshop Magnetic Materials in Tomorrow's World Demokritos (12/7/2016) (oral presentation).
- 13 **Vortex Matter Properties of $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ Superconductor Probed by ac Susceptibility Measurements**. Sixth North America -Greece-Cyprus Workshop on Paramagnetic Materials (NAGC 2015) 4-6-2015 Athens (oral presentation).
- 14 **Surface cracks detection in ferromagnetic specimens using GMR sensors** 4th International Conference of Engineering Against Failure (ICEAF IV) 24-26 June 2015, Skiathos, Greece (oral presentation).
- 15 **Study of $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductor with ac susceptibility measurements** (invited talk) M. Pissas, Greek Ceramic Society NTUA 3/4/2014.
- 16 **Complex Electric Permittivity and Magnetic Permeability of Ferrites Calculated from Scattering Parameters** European Conference on Antennas and Propagation 2014, The 8th European Conference on Antennas and Propagation, to be held at the World Forum in The Hague, The Netherlands, on 6-11 APRIL 2014 (EUCAP 2014) (invited talk).
- 17 **Estimation Of Permeability Tensor And Dielectric Permittivity Of Ferrites Using A Wave Guide Method Under A DC Magnetic Field** JEMS Joint European Magnetic Symposia 2013 25-30 August 2013 Rhodes Greece (oral presentation).
- 18 **Angular dependence of the peak effect in $\text{MgB}_{2-x}\text{C}_x$** , Eighth International Conference in School Format on Vortex Matter in Nanostructured Superconductors, 12-26 September 2013, Rhodes, Greece (invited talk)
- 19 **M. Pissas, Peak effect in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductor**, XXVIII Panhellenic Conference on Solid State Physics & Materials Science, 23-26 Sep 2012.

- 20 A neutron diffraction study of $\text{TbMn}_{1-x}\text{Fe}_x\text{O}_3$ compound, II workshop on the Physics of complex oxides 1-5 October 2012 Mallorca Spain.
- 21 Panhellenic Conference on Solid State Physics & Materials Science, Ioannina 29-29 September 2010, "A neutron diffraction and magnetization study of $\text{TbMn}_{1-x}\text{Fe}_x\text{O}_3$. (oral presentation)
- 22 Workshop «Electroceramics and Applications» 29/9/2010, A magnetization and Moessbauer study of $\text{NdFeAsO}_{0.82}\text{F}_{0.18}$ superconductor
- 23 Charge and spin density waves or solid solution phases in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($0.5 < x < 0.85$), Workshop on the Physics of complex oxides Santorini Greece 14-17/6/2010.
- 24 Second COMEPHS workshop on phase separation in electronics systems Nafplion Greece September 30 –October 4 2008.
- 25 Workshop on "Current trends in nanoscopic and mesoscopic magnetism" 1-5 September 2008, Delphi, Greece.
- 26 Second North America-Greece-Cyprus Workshop on paramagnetic Materials, Syros, Greece 10-21 June 2007.
- 27 First CoMePhS Workshop on PHASE SEPARATION IN ELECTRONIC SYSTEMS, Crete - Greece, October 29 - November 4, 2006.
- 28 Phase diagram of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ compound for $0 < x < 1$, Workshop on Self Organized Strongly Correlated Electron Systems in Santorini Greece, 27-30 August 2003.
- 29 Chemical and electronic phase separation in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($0 < x < 1$), National technical University of Athens (11/06/03).

Participation in funded Research Projects

- **Detection, Evaluation and Total Control of RCF in Rails- DECORAIL** " Synergasia". Budget 500 kEuro (2012-2015), Coordinator STASI Corporation. The contribution of our team is the design and the construction of an instrument for RCF crack detection by measuring the stray magnetic field above a crack in ferromagnetic specimens.
- **THALIS PROJECT: MAGnetoElectric materials in reconfigurable Antennas (MAGELLAN)** Budget 500 kEuro, Coordinator A. Alexandrides, Starting Date 1/1/11 Ending date 31/12/15. M. Pissas is responsible for the effort to develop novel magnetic materials and their characterization.
- **THALIS PROJECT: POLYNUCLEAR TRANSITION METAL COMPLEXES: Development of Synthetic Strategies, Reactivity and Applications in Magnetic and Catalytic Materials (POLYMAGCAT)** Duration: 3 and ½ years (42 months), Coordinator Spyros P. Perlepes. Starting Date 1/1/11 Ending date 31/12/15. M. Pissas is responsible for the dc and ac magnetic measurements.
- **Combining innovative portable VISUAL, ACOUSTIC, MAGNETIC, and NMR methods, with in-situ CHEMICAL diagnostic tools for effective failure assessment and maintenance strategy of RAIL and subway systems**, Source of funding EU, Budget 1000 kEuro, Coordinator NDTech, Starting Date 1/1/11-End Date 31/12/12. M. Pissas is responsible for the design and construction of a crack detection system which measures the stray magnetic field produced above a crack in a magnetized rail steel track.
- **Fusion Materials Technology** I participate in materials research and development for fusion applications within the framework of the European Fusion Development Agreement (EFDA) collaborating with the Institute of Nuclear Technology of NCSR Demokritos. Budget 40 kEuro, Starting Date 1/1/10-End Date 31/12/12. M. Pissas is responsible for magnetic, magnetoresistance and specific heat measurements in Fe-Cr alloys.
- **Development of HTc and low Tc hybrid superconductors for DEMO**, Fusion emerging Technologies, Source of funding EU, Budget 40 kEuro, Coordinator M. Pissas, Starting date 1/6/08 End Date 31/12/10. M. Pissas supervised the effort to fabricate hybrid superconductors consisting from cuprate and MgB_2 superconductors.
- **Novel Metamaterials for Patch Antennas Applications**, Source of funding ESA, Budget 100 kEuro, , Starting Date 1/1/08 Ending date-31/6/09. M. Pissas supervised the effort to prepare and characterise novel ferrimagnetic materials, that produce novel patch antenna.
- **Magnetic refrigerator based on manganese perovskites JOINT RESEARCH AND TECHNOLOGY PROGRAMMES 2005 – 2007**, Budget 10 kEuro, M. Pissas Starting Date 10/11/07 Ending date 31/3/08. M. Pissas supervised the effort to produce manganites appropriate for magnetic cooling.

- **Single crystal growth of high T_c superconductors, optical properties and vortex matter properties** (PENED 99, Budget € 49.000.000 GDR, Duration 18 months (1-1-00-31-6-01), coordinator M. Pissas.
- **Filter fabrication for wireless communications from high T_c superconductor and photonic crystals** (EPET II, Budget 50.000.000 GDR, Duration 18 μήνες, (1-9-99), coordinator M. Pissas
- **Couches minces supraconductrices YBa₂Cu₃O₇ de grande surface pour application microondes e&t.** Greek-France bilateral program PLATON-97038, 1997-1998. Budget 10.000.000 GDR, Coordinator M. Pissas.
- **Single crystal growth and vortex matter diagram of HgBa₂CuO_{4+δ} superconductor.** (DIMOEREVNA 99, Budget 4.000.000 GDR., Duration 24 months, (1-1-99-31-12-2000), Coordinator M. Pissas.
- **Preparation and application of high T_c superconductors** (EPET '95 Budget 150.k ECU, Coordinator D. Niarchos.
- **Vortex dynamics and critical currents in detwinned YBa₂Cu₃O₇ single crystals. Collaborative NATO Research Grant 217000BF (HTECH.CRG961402).** Coordinator M. Pissas.
- **The film high T_c superconductor growth and characterization at microwave frequencies.** (B/E-CT91-472 Coordinator D. Niarchos.
- **Preparation and study of high T_c-superconductors,** (89EK19), Budget Coordinator D. Niarchos
- **The influence of the local structure on the superconducting properties for samples in the YBa₂Cu₃O₇ and related systems.** CHRX-CT93-0116 DG DSCD, Coordinator D. Niarchos
- **Ag-sheathed Bi-Pb-Sr-Ca-Cu-O superconducting tapes with high critical current density,** NATO LINKAGE GRANT HTECH.LG 961393, USD \$ 25.000. Coordinator G. Kallias
- **Study of the doping mechanism of Bi₂Sr₂Ca₂Cu₃O_{10+δ} (2233) superconductor and wires fabrication,** Budget 8.000.000 MGR. PENED 96-97 , Coordinator D. Niarchos.

Conference / Workshop Organisation

- Pissas M. Organizing Committee of 29th Panhellenic Conferences on Solid State Physics and Materials Science, 22-25 September 2013
- Pissas M. and Stamopoulos D., Symposia Chairman's of Joint European Magnetic Symposia, 20-25 August (2013), Rhodes, Greece

List of publications

- 1 **Preparation of the 110K high Tc superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ by Pb and Sb substitution.** M. Pissas, D. Niarchos, PHYSICA C, **159** (1989) 643.
- 2 **The optimum percentage of Pb and the appropriate thermal procedure for the preparation of the 110K $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_y$ superconductor.** M. Pissas, D. Niarchos, C. Christides, M. Anagnostou, Supercond. Sci. Technol., **3** (1990) 128.
- 3 **Mossbauer studies of $\text{Bi}_2\text{Sr}_4\text{Fe}_3\text{O}_{12+x}$ isostructural with the $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$ 110K superconductor.** M. Pissas, V. Papaefthymiou, A. Simopoulos, A. Kostikas and D. Niarchos Sol. State Com. **73** (1990) 767.
- 4 **Mossbauer studies of the system $\text{Bi}_2\text{Sr}_{1+n}\text{Fe}_n\text{O}_x$ (n=2,3) isostructural with the high Tc superconductors $\text{Bi}_2\text{Sr}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_x$ (n=2,3).** M. Pissas, A. Kostikas, D. Niarchos, A. Simopoulos, J. of the Less-Com. Met., **164** (1990) 581.
- 5 **Mossbauer studies of the series $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{Bi}_{n-1}\text{Fe}_n\text{O}_y$ for $x=0.5, 1$ and $n=2,3$.** M. Pissas, A. Simopoulos, A. Kostikas and D. Niarchos PHYSICA C **176** (1991) 227.
- 6 **Structural and Mossbauer studies in REBaCuFeO_{5+x} compounds.** M. Pissas, C. Mitros, G. Kallias, V. Psycharis, D. Niarchos, A. Simopoulos, A. Kostikas, C. Christides and K. Prassides, PHYSICA C, **185** (1991) 553.
- 7 **Synthesis, thermogravimetric and ^{57}Fe Mossbauer studies of the oxygen deficient perovskite REBaCuFeO_{5+x} series (RE=Y, Nd, Sm, Gd, Dy, Tm, Lu).** M. Pissas, C. Mitros, G. Kallias, V. Psycharis, A. Simopoulos, A. Kostikas, D. Niarchos. PHYSICA C **192** (1992) 35.
- 8 **Mossbauer and X-ray powder diffraction study of the compound LuBaCuFeO_{5+x} .** M. Pissas, V. Psycharis, C. Mitros, G. Kallias, D. Niarchos, A. Simopoulos, A. Kostikas. Journal of Magnetism and Magnetic Materials **104** (1992) 571.
- 9 **Quantitative analysis and studies of the evolution of the transformation from $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ to $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ with Rietveld method.** M. Pissas, V. Psycharis, D. Niarchos. PHYSICA C **185** (1991) 485.
- 10 **Crystallographic, thermogravimetric and magnetization study of the $\text{YBa}_2\text{Cu}_{3-x}\text{Fe}_x\text{O}_y$ superconductor ($0 < x < 0.2, 6 < y < 7$).** G. Kallias, V. Psycharis, D. Niarchos M. Pissas. PHYSICA C **174** (1991) 316.
- 11 **Preparation and characterization of the $\text{NdFe}_{10}\text{T}_2\text{N}_x$ (T=Mo, V) compounds with the ThMn_{12} tetragonal type structure.** M. Anagnostou, C. Christides, M. Pissas, D. Niarchos. J. Appl. Phys. **70** (1991) 6012.
- 12 **Quantitative analysis and studies of the transformation from $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ to $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ using Rietveld analysis and ac susceptibility.** M. Pissas, G. K. Nicolaidis, V. Psycharis and D. Niarchos. PHYSICA C **196** (1992) 157.
- 13 **Mossbauer, TGA, X-ray powder diffraction of the compounds $\text{RE(1)RE(2)BaCuFeO}_{5+x}$ RE(1), RE(2) = (Nd,Sm),(Nd,Y),(Lu,Y).** M. Pissas, V. Psycharis, C. Mitros, G. Kallias, D. Niarchos, A. Koufoudakis, A. Simopoulos. Proceedings of the ICMAS-91 (Paris) "Superconductivity Materials Physics and Applications." p 263-268 (1991).
- 14 **Mossbauer and crystal structure study of $\text{YSr}_2\text{Cu}_2\text{FeO}_y$ isomorphous with $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)_3\text{O}_y$.** M. Pissas, G. Kallias, A. Simopoulos, D. Niarchos, A. Kostikas. Phys. Rev. B. **46** (1992) 14119.
- 15 **Raman scattering and TEM studies of commensurate modulated $\text{Bi}_{2+x}\text{Sr}_{3-x}\text{Fe}_2\text{O}_{9.2}$ isostructural to $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8.21}$.** V.N. Hadjimitov, M.N. Iliev, V. Dimov, M. Pissas and C. Mitros. J. Phys. Cond. Matter **5** (1993) 907.
- 16 **Raman and infrared active phonons in YBaCuFeO_5 : experiment and lattice dynamics.** Y.K. Atanassova, V.N. Popov, G.G. Bogachev, M.N. Iliev, C. Mitros, V. Psycharis and M. Pissas. Phys. Rev. B **47** (1993) 15201.
- 17 **Magnetic structure of the oxygen -deficient perovskite $\text{YBaCuFeO}_{5+\delta}$.** A. W. Mombru, C. Christides, A. Lappas, K. Prassides M. Pissas, C. Mitros, D. Niarchos. Inorg. Chem. **33** (1994) 1255.
- 18 **Temperature dependence of the hyperfine field distribution in the $\text{Fe}_{93.5-x}\text{Nd}_x\text{Zr}_{6.5}$ (x=0,2) amorphous alloys.** G. Nicolaidis, M. Pissas, D. Niarchos, R. D. Taylor, K.V. Rao. J. Appl. Phys. **75** (1994) 5853.
- 19 **Raman scattering from $\text{BiPbSr}_2\text{FeO}_{6+\delta}$ single crystals isostructural with the $\text{Bi}_2\text{Sr}_2\text{CuO}_{6+\delta}$ superconductor.** V. Hadjimitov, M. Pissas, and M. Iliev, Balkan Physics Letters, **2** (1994) 356.

- 20 **Raman Scattering from $\text{Bi}_{2.4}\text{Sr}_{2.6}\text{Fe}_2\text{O}_{9+\delta}$** , V.N.Hadjimitov, M.N.Iliev, M.Pissas, and C.Mitros, " Bulg.J.Phys. 19,35 (1992).
- 21 **Site occupancy of Fe in the oxygen saturated $\text{YSr}_2\text{Cu}_{3-x}\text{Fe}_x\text{O}_y$ compound for $x=0.25$ up to 1.** M. Pissas, G. Kallias, E. Moraitakis, D. Niarchos, A. Simopoulos. PHYSICA C **234** (1994) 127.
- 22 **Mossbauer, crystal structure, magnetic and Raman study of $(\text{Y,Ce})_2\text{Sr}_2\text{CuFeO}_8$ isomorphic with T^* structure superconductors.** M. Pissas, C. Mitros, D. Niarchos, A. Kostikas, A. Simopoulos, M. Abrashev, V. Hadjimitov, M. Iliev. Phys. Rev. B **50** (1994) 10157.
- 23 **Structure analysis of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films from X-ray diffraction data using Rietveld method.** M. Pissas, E. Moraitakis, V. Psycharis, D. Niarchos. PHYSICA C **235-240** (1994) 633.
- 24 **Modelling of AC- Susceptibility data of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films.** E. Moraitakis, M. Pissas, D. Niarchos. PHYSICA C **235-240** (1994) 3211.
- 25 **Modelling of the hysteresis loop for $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films.** E. Moraitakis, M. Pissas, D. Niarchos. PHYSICA C **241** (1995) 63.
- 26 **Structural, Mossbauer, and Raman studies of the $(\text{Y,Ce})_2\text{Sr}_2\text{Cu}_2\text{FeO}_{8+y}$ compound.** M. Pissas, G. Kallias, N. Poulakis, D. Niarchos, A. Simopoulos, and E. Liarokapis. Phys. Rev. B **52** (1995) 10610.
- 27 **High field behaviour of the magnetic response of a hard superconducting thin disk and application to hysteresis loops of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films.** E. Moraitakis, M. Pissas and D. Niarchos. Superconductor Science and Technology **8** (1995) 647.
- 28 **Relaxation of magnetization in YBaCuO single crystals.** M. A. Obolenskii, A. V. Bondarenko, V. I. Beletskii, R. V. Vovk, A.A. Prodam, M.El Saadawy, D. Niarchos, M.Pissas, G. Kallias, A. G. Sivakov. Functional materials **2** (1995) 409.
- 29 **Magnetic measurements of the critical current and pinning potential in $\text{Y}_{1-x}\text{Pr}_x\text{Ba}_2\text{Cu}_3\text{O}_7$ single crystals.** M. A. Obolenskii, A. V. Bondarenko, V. I. Beletskii, R. V. Vovk, A.A. Prodam, M.El Saadawy, D. Niarchos, M.Pissas, G. Kallias, Functional materials **2** (1995) 403.
- 30 **Superconducting parameters and vortex dynamics in aluminum-doped YBaCuO single crystals containing unidirectional twins.** M. A. Obolenskii, A. V. Bondarenko, V. A. Shklovskii, M.El Saadawy, R. V. Vovk, A. V. Samoilov, D. Niarchos, M.Pissas, G. Kallias, A. G. Sivakov. Low Temp. Phys **21** (1995) 917.
- 31 **Structural, Magnetic and Mossbauer Studies of PrBaCuFeO_{5+y} compound.** M. Pissas, G. Kallias, V. Psycharis, H. Gamari-Seale, D. Niarchos, A. Simopoulos, and R. Sonntag. Phys. Rev. B **55** (1997) 397.
- 32 **Structure and Mossbauer study of the double perovskite $\text{Ba}_2\text{InCu}_{1-x}\text{Fe}_x\text{O}_{4+y}$** G. Kallias, M. Pissas, D. Niarchos, and A. Simopoulos Mat. Res. Bul., **32** (1997) 791.
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