PERSONAL INFORMATION

Evangelos V. Hristoforou

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Sex Male | Date of birth 07/01/1961 | Nationality Hellenic

POSITION

Professor of Electronic Materials, Director, Laboratory of Electronic Sensors
School of Electrical and Computer Engineering, National TU of Athens, Greece

WORK EXPERIENCE

– today
Professor
Director, Laboratory of Electronic Sensors, School of Electrical and Computer Engineering, National Technical University of Athens, Zografou Campus, Athens 15780, Greece

7/2012 – 6/2016
Professor
Department of Metallurgy and Technology of Materials, School of Mining and Metallurgy Engineering, National Technical University of Athens, Zografou Campus, Athens 15780, Greece, www.metal.ntua.gr

2/2007 – 7/2012
Associate Professor
Department of Metallurgy and Technology of Materials, School of Mining and Metallurgy Engineering, National Technical University of Athens, Zografou Campus, Athens 15780, Greece, www.metal.ntua.gr

3/2000 – 2/2007
Assistant Professor
Department of Metallurgy and Technology of Materials, School of Mining and Metallurgy Engineering, National Technical University of Athens, Zografou Campus, Athens 15780, Greece, www.metal.ntua.gr

11/1998 – 3/2000
Professor
Department of Electrical Engineering, Technological & Educational Institute of Chalkis, Psahna, Euboea, 34400, Greece

4/1994– 11/1998
Assistant Professor
Department of Electrical Engineering, Technological & Educational Institute of Chalkis, Psahna, Euboea, 34400, Greece

1/1991 – 12/1993
Research Fellow
National Centre for Scientific research "Demokritos", Aghia Paraskevi, Greece

10/1988 – 11/1990
Research Assistant
Electronic & Electrical Engineering Department, King's College, University of London, UK

10/1986 – 10/1988
Research Engineer
Peaudouce SA, Avlon Attika, Greece

1/1985 – 9/1986
Electrical Engineer
202 State Factory of Airplanes, Greece

EDUCATION AND TRAINING

10/1987-11/1991
PhD
Electronic & Electrical Engineering Department, King's College, University of London, UK
Thesis on "Array Sensors Based on Amorphous Alloys"

10/1978-4/1984
Diploma in Electrical Engineering
Electrical Engineering Department, School of Engineering, University of Patras, Greece
Final Year Thesis on "Development of a Galvanometric Sensor"

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user - Common European Framework of Reference for Languages

Organisational / managerial skills

- Dean, School of Engineering, TEI of Chalkis, 1996-1998
- Chair, Electrical Engineering Department, TEI of Chalkis, 1998-1999
- Director, Laboratory of Metrology, TEI of Chalkis, 1994-1999
- Leader, Group of Electronic and Magnetic Materials, National TU of Athens, 2000 – 2016
- Director, Laboratory of Electronic Sensors, National TU of Athens, 2016 – today

Job-related skills

- Material development: rapidly quenched ribbons-wires, thin films, thick films, powders
- Material characterization: structure (electron microscopy, x-rays, other), properties (electric, magnetic, optical, other) and their simulation-correlation
- Sensor development & testing: magnetometers, mechanical sensors, steel heath monitoring

Other skills

- 1500 meter runner (best personal record 3:53:45 in 1986)

Driving licence

- B (car)

ADDITIONAL INFORMATION

Distinctions

Among the 2% of **highly cited researchers** in the field of sensors & electronic materials
Member of the Mediterranean Academy of Sciences & Arts

Publications
Presentations
Conferences

He has published more than **175 3papers in international journals**, more than 50 papers in international conferences and more than 300 presentations in conferences. His papers have been cited more than 3000 times in journal publications and patents of well-known companies in the field of sensors (**h-index=29 in Scopus & 33 in Google Scholar**). He has given more than **50 invited talks** in international conferences and workshops. He has also published **2 review articles**. He is reviewer in more than 21 international journals and 11 international conferences.

Editorial Boards

Memberships to Editorials Boards of International Journals

1. Editorial Board in several Journals of MDPI (Sensors, Materials, Metals, Magnetochemistry)
2. Regional Editor, "Recent Patents in Material Science"
3. Editorial Board in "Journal of Electrical Engineering", "Journal of Automation Mobile Robotics and Intelligent Systems" and "Measurement Automation Robotics"
4. Guest Editor in "Sensors & Actuators: A", IEEE T Magnetics

Conference committees

1. President, Internati3onal Advisory Committee, European Magnetic Sensor and Actuator Conference
2. X-President, International Conference on Materials and Applications for Sensors and Transducers
3. Member, International Steering Committee, Soft Magnetic Materials Conference

Organization of Conferences

Organisation of International Conferences:

- Chair, 4th European Magnetic Sensor and Actuator Conference, 2002, publishing in Sensors and Actuators
- Chair, 1st International Conference on Materials and Applications for Sensors and Transducers, 2011, publishing in Key Engineering Materials, Sensor Letters and Journal of Optoelectronics and Advanced Materials
- Chair, 20th Soft Magnetic Materials Conference, 2011, publishing in IEEE Transactions on Magnetics
- Chair, 2nd International Conference on Materials and Applications for Sensors and Transducers, 2012, publishing in Key Engineering Materials, Sensor Letters
- Chair, 3rd International Conference on Materials and Applications for Sensors and Transducers, 2013, publishing in Key Engineering Materials and Sensor Letters
- Chair, 4th International Conference on Materials and Applications for Sensors and Transducers, 2014, publishing in Key Engineering Materials and Sensor Letters
- Chair, 5th International Conference on Materials and Applications for Sensors and Transducers, 2015, publishing in the Institute of Physics, Conference Series
- Chair, 6th International Conference on Materials and Applications for Sensors and Transducers, 2016, publishing in the Institute of Physics, Conference Series
- Chair, 12th European Magnetic Sensor and Actuator Conference, 2018, publishing in IEEE Transactions on Magnetics
- Chair, 7th International Conference on Materials and Applications for Sensors and Transducers, 2018, publishing in the Institute of Physics, Conference Series
  (Also chair-person in numerous sessions of international conferences)

Projects

Current research projects:

1. Valuable products from micro-Algae (VALUEMAG). H2020 project, coordinated by E Hristoforou; Budget: 4,750,000 Euros. Targeting an innovative method for magnetic cultivation of micro-algae. Recently, extending towards bio-degradable polymers.
2. SUMBIO. Interreg project; Busget: 1,300,000 Euros. Targeting production of bio-fuel from green, domestic and industrial wastes.
3. Steel health monitoring (STEHEMON). Budget: open program (up to this moment >1,500,000 Euros). This project is related to the correlation of magnetic and mechanical properties with residual stresses, thus offering the possibility of predicting the crack generation.

More than 10 million Euros from projects as project coordinator or principal investigator

RESEARCH PLAN

Prof E Hristoforou is the Director of the Laboratory of Electronic Sensors of the National Technical University of Athens. His group targets include scientific research, technology development and technology products and knowledge transfer in the following scientific fields:

Materials and Applications for Sensors and Transducers

Steel Health Monitoring (SteHeMon): The offered innovation refers to a method for monitoring the residual stress tensor distribution in steels, which consequently provides the prediction of crack due to high gradient, including localized induction heating for localized stress rehabilitation. TRL 6-7.
Magnetic Effects for Sensing Applications (MESA): Development of magnetic field sensors using magnetic techniques with sensitivity ~1 $pTHz^{-1}$ and moderate cost; mechanical sensors based on the magnetostriction effect (position, force digitizers, coagulation sensors). Applications of magnetometers in magnetic anomaly detection. TRL 5.
Innovative materials (Materials): Development of thin and thick (hybrid) films for sensing elements, powders for several applications and rapidly quenched alloys for sensors, using magnetic, optical, conducting and semiconducting properties.

Hybrid Electric Energy & Environment Integrated Cluster (HELENIC)

Marine & Maritime Technologies (MARITECH): Innovative products, including sensors, microplastics monitoring, etc. TRL stands for 1-2 for basic research (micoplastics), 4-7 for sensors & processes under development (hydrogen production, pyrolysis) and 8 for ready products (antifouling & pipeline cleaning).
Advances for Smart Cities (Smart Cities): Development of harvesting techniques with new renewable fuels (mainly hydrogen production & pyrolysis), insulating technologies, storage technologies (batteries and supercapacitors, thermal storage); IoT for smart city monitoring in electricity-water-gas metering, road traffic-parking-charging & resilience fire-flooding-earthquake sensors and reaction systems. TRL 2-5.
Advances Environmental Engineering (Environment): Development of innovative methods for desalination, sewage and other cleaning processes, based on our selective magnetic separation technology, used for mining and waste of agricultural products, extraction of valuable products. TRL 5-6.

Health & Life Explorers (HELIX)

Biosensors: Development Lab-on-Chip (LoC) sensors to detect viruses, enzymes, proteins and other compounds for use either out-off-body, or implantables or wearables; software applications for electro & magneto cardiographs, scoliosis, and other applications. TRL 3-4.
Valuable products from Agriculture (Agri): Development of a Digital Innovation Hub on Agri-Food and Bio-economy. Precision agriculture (IoT); development of pharmaceutical & therapeutic products. TRL 4-5.
Therapeutics & Diagnostics (THERAGNOSTICS): Development of innovative techniques for: preventing tumor multiplication; curing neurological diseases; curing organs. TRL 3.
Electromagnetic Stimulation (EMS): Basic research on the effect of electromagnetic fields on the properties of proteins, organs and tissues, aiming at new therapy technologies. TRL 1-2.

STATEMENT OF TEACHING INTERESTS

- Solid state physics, structure & properties correlation
- Sensors, microsystems, calibration
- Microelectronics technology & packaging
- Magnetism and magnetic materials

PUBLICATIONS WITH CHRONOLOGICAL ORDER

A. Monographies, Reviews

A1. Monographies

1) E. Hristoforou, Array Sensors Based on Amorphous Alloys, PhD Thesis, University of London, 1991
2) E. Hristoforou, Basic Circuit Theory & Electronic Technology, Kallipos, Hellenic Ministry of Education, 2015
3) E. Hristoforou, Electronic materials, Kallipos, Hellenic Ministry of Education, 2015

A2. Reviews

1) E. Hristoforou, "Magnetostrictive Delay Lines: Engineering Theory and Sensing Applications", Review Article, Meas. Sci. & Technol., 14, p. R15-R47, 2003.
2) A. Ktena and E. Hristoforou, "Magnetic Effects in Sensing Applications", Encyclopedia of Sensors, Amerikan Publishers (Ed. C. Grimes), 2005

B. Journal Publications

1) Angelopoulos, S., Misiaris, D., Banis, G., (...), Ktena, A., Hristoforou, E., Steel health monitoring device based on Hall sensors, Journal of Magnetism and Magnetic Materials 515,167304, 2020
2) Liang, K., Tsarabaris, P., Ktena, A., Bi, X., Hristoforou, E., Smart stress annihilation in steels using residual stress distribution monitoring and localized induction heating Open Access, Metals 10(6),838, pp. 1-11, 2020
3) Kouli, M.-E., Banis, G., Savvidou, M.G., Ferraro, A., Hristoforou, E., A study on magnetic removal of hexavalent chromium from aqueous solutions using magnetite/zeolite-x composite particles as adsorbing material Open Access, International Journal of Molecular Sciences 21(8),2707, 2020
4) Banis, G., Tyrovolas, K., Angelopoulos, S., Ferraro, A., Hristoforou, E., Pushing of magnetic microdroplet using electromagnetic actuation system Open Access, Nanomaterials 10(2),371,2020
5) Marino, T., Casella, P., Sangiorgio, P., (...), Molino, A., Musmarra, D., Natural beta-carotene: A microalgae derivate for nutraceutical applications, Chemical Engineering Transactions 79, pp. 103-108, 2020
6) Zaky, A.A., Ibrahim, M.N., Rezk, H., (...), Sergeant, P., Falaras, P., Energy efficiency improvement of water pumping system using synchronous reluctance motor fed by perovskite solar cells, International Journal of Energy Research, Article in Press, 2020
7) Liang, K., Angelopoulos, S., Lepipas, G., (...), Bi, X., Hristoforou, E., Sensor to monitor localized stresses on steel surfaces using the magnetostrictive delay line technique Open Access, Sensors (Switzerland) 19(21),4797,2019
8) Hristoforou, E., Ktena, A., Gong, S., Magnetic Sensors: Taxonomy, Applications, and New Trends, IEEE Transactions on Magnetics 55(7),8606122, 2019
9) Berkesi, K., Živković, P.M., Elezović, N., (...), Hristoforou, E., Nikolić, N.D., Mechanism of formation of the honeycomb-like structures by the regime of the reversing current (RC) in the second range, Journal of Electroanalytical Chemistry 833, pp. 401-410, 2019
10) Angelopoulos, S., Vourna, P., Ktena, A., Tsarabaris, P., Hristoforou, E., Design and development of a new magnetometer calibration device, IEEE Transactions on Magnetics 55(1),8493562, 2019
11) Savvidou, M.G., Banis, G., Ferraro, A., (...), Kolisis, F., Hristoforou, E., Production of magnetic modified microalgae using iron oxide nanoparticles and electroporation technique, Chemical Engineering Transactions 73, pp. 13-18, 2019
12) Kouli, M.-E., Banis, G., Tsarabaris, P., Ferraro, A., Hristoforou, E., A study on magnetic removal of sodium, calcium and potassium ions from seawater using magnetite/clinoptilolite–Na composite nanoparticles, Journal of Magnetism and Magnetic Materials 465, pp. 692-699, 2018
13) Molino, A., Rimauro, J., Casella, P., (...), Hristoforou, E., Musmarra, D., Extraction of astaxanthin from microalga Haematococcus pluvialis in red phase by using generally recognized as safe solvents and accelerated extraction Open Access, Journal of Biotechnology 283, pp. 51-61, 2018
14) Vourna, P., Ktena, A., Tsarabaris, P., Hristoforou, E., Magnetic residual stress monitoring technique for ferromagnetic steels Open Access, Metals 8(8),592, 2018
15) Giouroudi, I., Hristoforou, E., Perspective: Magnetoresistive sensors for biomedicine Open Access, Journal of Applied Physics 124(3),030902, 2018
16) Aivazoglou, E., Metaxa, E., Hristoforou, E., Microwave-assisted synthesis of iron oxide nanoparticles in biocompatible organic environment Open Access, AIP Advances 8(4),048201, 2018
17) Hristoforou, E., Ktena, A., Vourna, P., Argiris, K., Dependence of magnetic permeability on residual stresses in alloyed steels Open Access, AIP Advances 8(4),047201, 2018
18) Markova, I.N., Piskin, M.B., Zahariev, I.Z., (...), Ivanova, D.I., Fachikov, L.B., Influence of the support on the morphology of Co-Sn, Ni-Sn, Co-Ni nanoparticles synthesized through a borohydride reduction method applying a template technique Open Access, Reviews on Advanced Materials Science 55(1-2), pp. 82-91, 2018
19) Molino, A., Rimauro, J., Casella, P., (...), Chianese, S., Musmarra, D., Microalgae valorisation via accelerated solvent extraction: Optimization of the operative conditions, Chemical Engineering Transactions 65, pp. 835-840, 2018
20) Vourna, P., Hristoforou, E., Ktena, A., Svec, P., Mangiorou, E., Dependence of Magnetic Permeability on Residual Stresses in Welded Steels, IEEE Transactions on Magnetics 53(4),7742409, 2017
21) Zahariev, I.Z., Hristoforou, E., Markova, I.N., Template synthesis and study of Co-Ni core/carbon shell nanoparticles, Journal of Chemical Technology and Metallurgy 52(2), pp. 400-414, 2017
22) Markova, I.N., Zahariev, I.Z., Milanova, V.L., (...), Fachikov, L.B., Hristoforou, E., Nanomaterials based on intermetallic (Co-Sn, Ni-Sn, Co-Ni) nanoparticles studied by ftir spectroscopy, Reviews on Advanced Materials Science 52(1-2), pp. 70-81, 2017

23) Banis, G., Kouli, M.E., Ferraro, A., (...), Musmarra, D., Hristoforou, E., An innovative application of super-paramagnetic iron oxide nanoparticles for magnetic separation, Chemical Engineering Transactions 60, pp. 85-90, 2017
24) Banis, G., Kouli, M.E., Ferraro, A., (...), Musmarra, D., Hristoforou, E., An innovative application of super-paramagnetic iron oxide nanoparticles for magnetic separation, Chemical Engineering Transactions 60, pp. 85-90, 2017
25) Kossyvakis, D.N., Voutsinas, G.D., Hristoforou, E.V., Experimental analysis and performance evaluation of a tandem photovoltaic-thermoelectric hybrid system, Energy Conversion and Management 117, pp. 490-500, 2016
26) Kossyvakis, D.N., Vassiliadis, S.G., Vossou, C.G., (...), Potirakis, S.M., Hristoforou, E.V., Computational Analysis of a Thermoelectric Generator for Waste-Heat Harvesting in Wearable Systems, Journal of Electronic Materials 45(6), pp. 2957-2966, 2016
27) Hristoforou, E., Vourna, P., Ktena, A., Svec, P., On the Universality of the Dependence of Magnetic Parameters on Residual Stresses in Steels, IEEE Transactions on Magnetics 52(5),7362189, 2016
28) Adamaki, B., Karatza, D., Chianese, S., (...), Metaxa, E., Hristoforou, E., Super-paramagnetic nanoparticles: Manufacturing, structure, properties, simulation, applications, Chemical Engineering Transactions 47, pp. 79-84, 2016
29) Kossyvakis, D.N., Vossou, C.G., Provatidis, C.G., Hristoforou, E.V., Computational analysis and performance optimization of a solar thermoelectric generator, Renewable Energy 81, pp. 150-161, 2015
30) Vourna, P., Ktena, A., Tsakiridis, P.E., Hristoforou, E. An accurate evaluation of the residual stress of welded electrical steels with magnetic Barkhausen noise, Measurement: Journal of the International Measurement Confederation 71, pp. 31-45, 2015
31) Antipas, G.S.E., Mangiorou, E., Hristoforou, E., The effect of indium content on the atomic environment and cluster stability of GeSe4Inx=10,15 glasses Open Access, Metals 5(1), pp. 102-118, 2015
32) Vourna, P., Ktena, A., Tsakiridis, P.E., Hristoforou, E., A novel approach of accurately evaluating residual stress and microstructure of welded electrical steels, NDT and E International 71, pp. 33-42, 2015
33) Kossyvakis, D.N., Vossou, C.G., Provatidis, C.G., Hristoforou, E.V., Computational and experimental analysis of a commercially available Seebeck module, Renewable Energy 74, pp. 1-10, 2015
34) Vourna, P., Hervoches, C., Vrana, M., Ktena, A., Hristoforou, E., Correlation of magnetic properties and residual stress distribution monitored by X-ray and neutron diffraction in welded AISI 1008 steel sheets, IEEE Transactions on Magnetics 51(1),7029219, 2015
35) Koumoulos, E.P., Markakis, V., Tsikourkitoudi, V.P., (...), Papadopoulos, N., Hristoforou, E., Tribological characterization of chemical vapor deposited Co and Co3O4 thin films for sensing reliability in engineering applications, Tribology International 82(PA), pp. 89-94, 2015
36) Koumoulos, E.P., Tsikourkitoudi, V.P., Kartsonakis, I.A., (...), Hristoforou, E., Charitidis, C.A., Synthesis, structural and nanomechanical properties of cobalt based thin films, International Journal of Structural Integrity 6(2), pp. 225-242, 2015
37) Christopoulos, A., Hristoforou, E., Koulalis, I., Tsamasphyros, G., Inductive strain sensing using magnetostrictive wires embedded in carbon fibre laminates, Smart Materials and Structures 23(8),085035, 2014
38) Ktena, A., Manasis, C., Hristoforou, E., On the measurement of permeability and magnetostriction in ribbons and wires, IEEE Transactions on Magnetics 50(4),6798058, 2014
39) Vourna, P., Ktena, A., Hristoforou, E., Residual stress analysis in nonoriented electrical steel sheets by barkhausen noise measurements, IEEE Transactions on Magnetics 50(4),6798041
40) Antipas, G.S.E., Mangiorou, E., Hristoforou, E., Solute-solvent interactions and atomic cohesion in GeSe4 and GeSe4In5 metallic glasses, Materials Research Express 1(1),015202, 2014
41) Ktena, A., Davino, D., Visone, C., Hristoforou, E., Stress dependent vector magnetic properties in electrical steel, Physica B: Condensed Matter 435, pp. 25-27, 2014
42) Ktena, A., Hristoforou, E., Gerhardt, G.J.L., (...), Rodrigues Jr., D.L., Alberteris-Campos, M., Barkhausen noise as a microstructure characterization tool, Physica B: Condensed Matter 435, pp. 109-112, 2014
43) Karagiovanaki, S., Christopoulos, A., Zoumpoulakis, L., Hristoforou, E., Inductive method of monitoring plastic deformation on boat shafting systems based on magnetic composites, Sensor Letters 12(9), pp. 1368-1371, 2014
44) Konstantopoulos, S., Christopoulos, A., Schledjewski, R., Hristoforou, E., Using glass covered magnetic micro-wire composites in fiber reinforced polymeric composites for aeronautical applications, Sensor Letters 12(9), pp. 1408-1413, 2014
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46) Ioakeimidis, E.K., Kytopoulos, V.N., Hristoforou, E., Investigation of magnetic, mechanical and microfailure behavior of ARMCO-type low carbon steel corroded in 3.5% NaCl-aqueous solution, Materials Science and Engineering A 583, pp. 254-260, 2013
47) Antipas, G.S.E., Statharas, E., Tserotas, P., Papadopoulos, N., Hristoforou, E., Experimental and first-principles characterization of functionalized magnetic nanoparticles, ChemPhysChem 14(9), pp. 1934-1942, 2013
48) Petrou, J., Skafidas, P., Hristoforou, E., Electronic toll and road traffic monitoring system using 3-D field AMR sensors, Sensor Letters 11(1), pp. 91-95, 2013
49) Ktena, A., Hristoforou, E., Stress dependent magnetization and vector preisach modeling in low carbon steels, IEEE Transactions on Magnetics 48(4),6172345, pp. 1433-1436, 2012
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53) Papadopoulos, N., Karayianni, C.-S., Tsakiridis, P., Sarantopoulou, E., Hristoforou, E., Effects of MOCVD thin cobalt films' structure and surface characteristics on their magnetic behavior, Chemical Vapor Deposition 17(7-9), pp. 211-220, 2011
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60) Petridis, C., Dimitropoulos, P.D., Hristoforou, E., New magnetic field sensor based on combined flux-gate/Hall-effect arrangement, IEEE Sensors Journal 9(2),4749399, pp. 128-134, 2009
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62) Mamalis, A., Hristoforou, E., Magnetostrictive behaviour of ribbons and wires: Analytical modelling and experimental validation, Journal of Optoelectronics and Advanced Materials 11(1), pp. 45-55, 2009
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65) Krimpalis, S., Papadopoulos, N., Efthimiadis, K.G., Karagianni, C.S., Hristoforou, E., Magnetic properties in red mud after thermal treatment, Journal of Optoelectronics and Advanced Materials 10(5), pp. 1085-1088, 2008
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69) Hristoforou, E., Kosmas, K., Kollár, M., Surface magnetic nondestructive evaluation using a permeability sensor based on the MDL technique, Journal of Electrical Engineering 59(7 SUPPL), pp. 90-93, 2008
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C. International Patents

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