

Curriculum Vitae

Dr. Sotiria F. Galata

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1 EDUCATION

Degree Title	BSc in Physics from the Faculty of Sciences
School-Institution	Department of Physics, Faculty of Sciences, Aristotle University of Thessaloniki (11/13/2000)

2 PHD THESIS

PhD Title	" Sulfur doped Silicon Light Emitting Diodes "
School-Institution	University of Surrey, School of Electronics and Physical Sciences, Advanced Technology Institute (ATI), Guildford, UK (14/3/2005)

3 PROFESSIONAL ACTIVITY

Apr. 2018 – today	Assistant Professor, Department of Electrical and Electronic Engineering, University of West Attica, Athens, Greece
2016	Assistant Professor, Department of Electronic Engineering T.E., Technological Educational Institution of Athens, Greece
Dec. 2013	Lecturer Department of Electronics, Technological Educational Institution of Athens, Greece
2010- Dec. 2013	Tenured Lecturer Department of Electronics, Technological Educational Institution of Athens, Greece
2005-2010	Research Assistant, Institute of Materials Science, National Centre of Scientific Research (NCSR) "Demokritos", Athens, Greece
2005-2007	Research Assistant, University of Ioannina, Greece

4 TEACHING

4.1 Undergraduate Programs

2020 – today	" Electronics I ", 2 nd semester, Department of Electrical and Electronics Engineering, University of West Attica
2019	" Introduction to Electronics ", 2 nd semester, Department of Electrical and Electronics Engineering, University of West Attica
2019 – present	" Semiconductor Devices ", 7 th semester, Department of Electrical and Electronic Engineering, University of West Attica

2019 – present	" Semiconductor Devices ", 7 th semester, laboratory course, Department of Electrical and Electronic Engineering, University of West Attica
2019-2020	" Electronics I ", 2 nd semester and " Electronics II " 3 rd semester, laboratory courses, Department of Electrical and Electronic Engineering, University of West Attica
2018	" Analog Electronics I ", 3 rd semester, laboratory course, Department of Electrical and Electronic Engineering, University of West Attica
2014	" Physics of Semiconductors & Devices ", 2 nd semester, Department of Electronic Engineering TE, Technological Educational Institution of Athens
2013	" Physics of Semiconductors & Devices ", 2 nd semester, co-teaching, Department of Electronic Engineering TE, Technological Educational Institution of Athens
2010	" Technology of Electronic Components ", 2 nd semester, Department of Electronic Engineering TE, Technological Educational Institution of Athens
2010-2018	" Analog Electronics ", 2 nd semester, " Electronic Design and Construction ", 4 th semester, " Physics of Semiconductors and Devices ", 2 nd semester, " Amplifier Devices ", 3 rd semester, " Electrical Circuits & Measurements ", 1 st semester, " Electronic Physics ", 1 st semester, " Electronic Components Technology ", 2 nd semester laboratory courses, Department of Electronic Engineering TE, Technological Educational Institution of Athens
2007-2010	" Electronic Circuit Design & Components Technology ", 2 nd semester, laboratory associate, Department of Electronic Engineering TE, Technological Educational Institution of Athens
2008 -2010	" Electronic Physics ", 1 st semester, laboratory associate, Department of Electronic Engineering TE, Technological Educational Institution of Athens
2007-2009	" General Electronics ", 1 st semester, laboratory associate, Department of Computer Systems, Technological Educational Institution of Piraeus
2001-2005	Scientific & Laboratory associate -2 nd year Electronics Labs (Operational Amplifiers I, II, Linear Systems I, II) -Engineering Design and Professional Studies

-Semiconductor Technology

-Word and Excel Packages

-1st and 2nd semester Mathematics Tutoring

-Leadership Skills

School of Electronics and Physical Sciences, University of Surrey , UK

4.2 Master's Degree Programs

2019	" Special measurement systems ", 2 nd semester, "MSc by Research by Electrical and Electronic Engineering", Department of Electrical and Electronic Engineering, University of West Attica
2018	" Materials, Packaging and Standardization " 2 nd semester, postgraduate study program entitled "Integrated Telecommunication Systems", Department of Electronic Engineering TE, Technological Educational Institution of Athens
2018	" Micro -Nano Electronics ", 1 st semester, postgraduate study program entitled "Integrated Telecommunication Systems", Department of Electronic Engineering TE, Technological Educational Institution of Athens
2014-2018	" Nanoelectronics and applications ", 3 rd semester, postgraduate study program entitled "Design and Development of Advanced Electronics Systems", Department of Electronic Engineering TE, Technological Educational Institution of Athens

5 FURTHER EDUCATIONAL WORK

5.1 Undergraduate theses supervision

- "Manufacturing a mechanical arm controlled by a microcontroller ", 2023, ongoing
- "App for finding and using electric car charging stations", Mar 2023 (co-reviewed)
- "Manufacturing a fuel tank gauge using ultrasound", Mar. 2022
- "MOSFET Electrical Characterization and Similarity Identification Techniques", Feb. 2019
- "Development of an application in an Android operating system to automate the declaration of laboratory hours, Dec 2014
- "Peltier effect study", Nov. 2014
- "Metal-Insulator-Semiconductor (MIS) Diode Study", Oct. 2014

5.2 Postgraduate theses supervision

- "Study of integrated ferroelectric memories from ferroelectric HfO₂", Dimitrios Leonardos, diploma thesis for the Master's program entitled "Design and Development of Advanced Electronics Systems", Department of Electrical and Electronic Engineering, University of West Attica, 2022.
- Co-supervision of diploma theses within the framework of the Erasmus program, for students of ENSAIT University (École Nationale Supérieure Des Arts et Industries Textiles) and Department of Electrical and Electronic Engineering, University of West Attica, 2019 – 2023.

5.3 Member of Doctoral Advisory Committees

2020 – today	Member of the 3-member advisory committee of the Doctoral Thesis on "Triboelectric phenomena in textile materials", Aristides Repoulas, Department of Electrical and Electronic Engineering, University of West Attica (in progress)
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5.4 Member of Doctoral Examination Committees

January 2023	Member of the 7-member examination committee for the Doctoral Thesis titled "Automatic monitoring of biodiversity using wireless networks and optical / audio-visual sensors", Iraklis Rigakis, Department of Electrical and Electronics Engineering, University of West Attica
February 2023	Member of the 7-member examination committee for the Doctoral Thesis titled "On topological properties of materials: "Topological insulators, Weyl and Dirac semimetals", Sotirios Fragos, Department of Mechanical Engineering, University of West Attica

5.5 Educational projects

2010 – present	Member of the 3-member examination committee for graduate and diploma theses, Department of Electrical and Electronic Engineering, University of West Attica.
2012 - present	Student internship supervision, Department of Electrical and Electronic Engineering, University of West Attica.

6 LECTURE NOTES

- **"Electronics I"**, Theory notes for the course "Electronics I", 2nd semester, of the undergraduate study program of the Department of Electrical and Electronic Engineering, University of West Attica, June 2020
- **"Introduction to Electronics"**, Theory notes for the course "Introduction to Electronics", 2nd semester, of the undergraduate study program of the Department of Electrical and Electronic Engineering, University of West Attica, June 2019.
- **"Semiconductor Devices"**, Theory notes for the course "Semiconductor Devices", 7th semester, of the undergraduate study program of the Department of Electrical and Electronic Engineering, University of West Attica, June 2019.
- **"Materials, Packaging and Standardization"**, Theory notes for the course "Materials, Packaging and Standardization" of the 2nd semester of the postgraduate study program entitled "Integrated Telecommunication Systems" of the Department of Electronic Engineering, TEI of Athens, June 2018.
- **"Micro -Nano Electronics"**, Theory notes for the course, 1st semester of the postgraduate study program entitled "Integrated Telecommunication Systems", Department of Electronic Engineering TE, TEI Athens, December 2017.
- **"Nanoelectronics and applications"**, Theory notes for the course "Nanoelectronics and applications" of the 3rd semester of the postgraduate study program "Design and Development of Advanced Electronic Systems", of the Department of Electronic Engineering TE, TEI of Athens, November 2014.
- **"Physics of Semiconductors & Devices"**, Theory notes for co-teaching the course "Physics of Semiconductors & Devices" 2nd semester of the undergraduate study program of the Department of Electronic Engineering TE, TEI of Athens, 2013.
- **"Technology of Electronic Components"**, Theory notes for the course "Technology of Electronic Components" 2nd semester of the undergraduate study program of the Department of Electronic Engineering TE, TEI Athens, 2010.

7 PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS AND BOOK CHAPTERS

- A1.** A. Repoulas, M. Ertekin, S.F. Galata, J. Pesez, C. Anicaux, S. Vassiliadis, and A. Marmarali, 'The Effect of Ambient Humidity on the Performance of a Wearable Textile Triboelectric Generator', **Energy Technology**, 11(7), pp. 2201433 (2023).
- A2.** S.F. Galata, S. Vassiliadis, A. Poujol, A. Repoulas, D. Matsouka and G. Priniotakis, 'Study on triboelectricity parameters', **Springer Proceedings in Materials** 17, pp. 55-61 (2022).
- A3.** A. Repoulas, S.F. Galata, A. Kallivretaki, A. Marmarali, S. Vassiliadis, 'Performance Investigation of Textile Triboelectric Generators', **Tekstil ve Konfeksiyon**, 32(3), pp. 252–257 (2022).

- A4. D. Matsouka, S. Vassiliadis, S. Galata, D. Gkoutzeli, A. Çay, 'Thermochromic properties of textile fabrics', **Materials Science Forum** 1063, pp. 157-162 (2022).
- A5. A. Repoulas, M. Ertekin, S.F. Galata, S. Vassiliadis, A. Marmarali, 'Investigation of triboelectricity on textile structures through a TEG which combines sliding and vertical point', **Tekstil ve Muhendis** 29 (128), pp 29-296 (2022).
- A6. K. Baskourellos, O. Tsilipakos, T. Stefański, S.F. Galata, E.N. Economou, M. Kafesaki, and K.L. Tsakmakidis, 'Topological extraordinary optical transmission', **Phys. Rev. Research** 4(3) L032011 (2022).
- A7. A. Repoulas, S. Vassiliadis, S.F. Galata, 'Triboelectricity and textile structures', **Journal of the Textile Institute**, 112(10), pp. 1580-1587 (2021).
- A8. F. Boscherini, F. D'Acapito, S.F. Galata, D. Tsoutsou, A. Dimoulas, 'Atomic scale mechanism for the Ge-induced stabilization of the tetragonal, very high- κ , phase of ZrO_2 ', **Applied Physics Letters** 99 (12), pp. 121909 (2011).
- A9. V. Ioannou-Sougleridis, S.F. Galata, E. Golias, T. Speliotis, A. Dimoulas, D. Giubertoni, S. Gennaro, M. Barozzi, 'High performance n+/p and p+/n germanium diodes at low-temperature activation annealing', **Microelectronic Engineering** 88 (3), pp. 254-261 (2011).
- A10. D. Tsoutsou, Y. Panayiotatos, A. Sotiropoulos, G. Mavrou, E. Golias, S.F. Galata, A. Dimoulas, 'Chemical stability of lanthanum germanate passivating layer on Ge upon high-k deposition: A photoemission study on the role of La in the interface chemistry', **Journal of Applied Physics** 108 (6), art. no. 064115 (2010).
- A11. A. Dimoulas, D. Tsoutsou, Y. Panayiotatos, A. Sotiropoulos, G. Mavrou, S.F. Galata, E. Golias, 'The role of surface chemistry in the passivation of Ge', **Applied Physics Letters** 96 (1), 012902, (2010).
- A12. S.F. Galata, G. Mavrou, P. Tsipas, A. Sotiropoulos, Y. Panayiotatos, and A. Dimoulas, 'Metal-oxide-semiconductor devices on p-type Ge with La_2O_3 and $\text{ZrO}_2/\text{La}_2\text{O}_3$ as gate dielectric and the effect of postmetallization anneal', **Journal of Vacuum Science and Technology B** 27, 246 (2009).
- A13. D. Tsoutsou, G. Apostolopoulos, S.F. Galata, P. Tsipas, A. Sotiropoulos, G. Mavrou, Y. Panayiotatos, A. Dimoulas, A. Lagoyannis, A.G. Karydas, V. Kantarelou and S. Harissopoulos, 'Stabilization of very high-k tetragonal phase in Ge-doped ZrO_2 films grown by atomic oxygen beam deposition', **Journal of Applied Physics** 106, 024107 (2009).
- A14. D. Tsoutsou, G. Apostolopoulos, S. Galata, P. Tsipas, A. Sotiropoulos, G. Mavrou, Y. Panayiotatos and A. Dimoulas, 'Stabilization of a very high- κ tetragonal ZrO_2 phase by direct doping with Germanium', **Microelectronic Engineering** 86, pp. 1626-1628 (2009).
- A15. G. Mavrou, P. Tsipas, A. Sotiropoulos, S. Galata, Y. Panayiotatos, A. Dimoulas, C. Marchiori, and J. Fompeyrine, 'Very high- κ ZrO_2 with La_2O_3 (LaGeOx) passivating interfacial layers on germanium substrates', **Journal of Applied Physics Letters**, 93, 212904 (2008).

- A16.** P. Tsipas, S.N. Volkos, A. Sotiropoulos, S.F. Galata, G. Mavrou, D. Tsoutsou, Y. Panayiotatos, A. Dimoulas, C. Marchiori, and J. Fompeyrine, 'Germanium - induced stabilization of a very high - k zirconia phase in $\text{ZrO}_2/\text{GeO}_2$ gate stacks ', **Journal of Applied Physics Letters**, 93, 082904 (2008).
- A17.** M.S. Rahman, E.K. Evangelou, A. Dimoulas, G. Mavrou, S. Galata, 'Anomalous charge trapping dynamics in cerium oxide grown on germanium substrate', **Journal of Applied Physics**, 103, 064514 (2008).
- A18.** G. Mavrou, S. Galata, P. Tsipas, A. Sotiropoulos, Y. Panayiotatos, A. Dimoulas, E.K. Evangelou, J.W. Seo, Ch. Dieker, 'Electrical properties of La_2O_3 and $\text{HfO}_2/\text{La}_2\text{O}_3$ gate dielectrics for Germanium MOS devices' **Journal of Applied Physics**, 103, 014506 (2008).
- A19.** G. Mavrou, S.F. Galata, A. Sotiropoulos, P. Tsipas, Y. Panayiotatos, A. Dimoulas, E.K. Evangelou, J.W. Seo, Ch. Dieker, 'Germanium metal - insulator - semiconductor capacitors with rare earth La_2O_3 gate dielectric', **Microelectronic Engineering** 84 (9-10), pp. 2324-2327 (2007).
- A20.** A. Dimoulas, D.P. Brunco, S. Spiga, J.W. Seo, Y. Panayiotatos, M. Houssa, M. Caymax, M. Fanciulli, Ch. Dieker, A. Sotiropoulos, S. Galata, EK Evangelou, T. Conard, M.M Heyns, S. Ferrari, C. Wiemer, 'Interface engineering for Ge metal - oxide - semiconductor devices' **Thin Solid Films** 515 (16 SPEC. ISS.), pp. 6337-6343 (007).
- A21.** S.F. Galata, E.K. Evangelou, Y. Panayiotatos, A. Sotiropoulos, A. Dimoulas, 'Post deposition annealing studies of lanthanum aluminate and ceria high-k dielectrics on germanium', **Microelectronics Reliability** 47 (4-5 SPEC. ISS.), pp. 532-535 (2007).
- A22.** J.R. Power, O. Pulci, A.I. Shkrebtii, S. Galata, A. Astropekakis, K. Hinrichs, N. Esser, R. Del Sole and W. Richter, 'Sb-induced (1x1) reconstruction on Si(001)' , **Physical Review B** 67, 115315 (2003).
- A23.** A. Astropekakis, J.R. Power, K. Fleischer, N. Esser, S. Galata, D. Papadimitriou, and W. Richter, 'Influence of Sn on the optical anisotropy of single-domain Si(001)', **Physical Review B** , 63, 085317 (2001).

8 PUBLICATIONS IN INTERNATIONAL AND NATIONAL REFERRED CONFERENCES

- B1.** S.F. Galata, A. Repoulas, M. Ertekin, J. Pesez, C. Anicaux, S. Vassiliadis, and A. Marmarali, 'Study of Absolute Humidity on a Textile Triboelectric Generator', **10th International Conference of Applied Research on Textile and Materials (10-CIRATM)**, Monastir, Tunisia, 9-11 November 2023.
- B2.** G. Alan, S.F. Galata, S. Vassiliadis, 'Viscoelastic Behavior of the Warp Knitted Spacer Fabrics', In book: The **18th Romanian Textiles and Leather Conference**, CORTEP 2022.

- B3.** A. Repoulas, S.F. Galata, A. Kallivretaki, A. Marmarili, S. Vassiliadis, 'Performance investigation of Textile Triboelectric Generators', XVth **International Izmir Textile and Apparel Symposium** (IITAS), Turkey, 26-27 October (2021).
- B4.** D. Tsoutsou, Y. Panayiotatos , S. Galata, A. Sotiropoulos, G. Mavrou , E. Golias, A. Dimoulas, 'The effect of Se and Se/Al passivation on the oxidation of Ge', **Microelectronic Engineering** 88 (4), pp. 407-410 (2011).
- B5.** M.S. Rahman, E.K. Evangelou, A. Dimoulas, G. Mavrou, S. Galata, 'Current instabilities in rare-earth oxides- HfO₂ gate stacks grown on germanium based metal-oxide-semiconductor devices due to Maxwell-Wagner instabilities and dielectrics relaxation', **Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures** 29 (1), pp. 01AB061-01AB067 (2011).
- B6.** A. Dimoulas, D. Tsoutsou, S.F. Galata, Y. Panayiotatos, G. Mavrou, E. Golias, 'Ge surfaces and its passivation by rare earth lanthanum germanate dielectric', **ECS Transactions** 33 (6), pp. 433-446 (2010).
- B7.** M.S. Rahman, E.K. Evangelou, I.I. Androulidakis, A. Dimoulas, G. Mavrou, S. Galata, 'SILC decay in La₂O₃ gate dielectrics grown on Ge substrates subjected to constant voltage stress' **Solid - State Electronics** 54 (9) pp 979-984 (2010).
- B8.** E.K. Evangelou, M.S. Rahman, A. Dimoulas, S. Galata, 'Defects generation under constant voltage stress in La₂O₃/HfO₂ gate stacks grown on Ge substrates', **ECS Transactions** 25 (6), pp. 105-111 (2009).
- B9.** E.K. Evangelou, M.S. Rahman, I.I. Androulidakis, A. Dimoulas, G. Mavrou, S. Galata, 'SILC decay in Ge-based MOS devices with La₂O₃ gate dielectrics subjected to constant voltage stress', ESSDERC 2009 - **Proceedings of the 39th European Solid-State Device Research Conference** , 5331319, pp. 253-256 (2009).
- B10.** P. Tsiapas , G. Mavrou , S.N. Volkos, A. Sotiropoulos, S. Galata, Y. Panayiotatos, A. Dimoulas, 'Very high - k tetragonal ZrO₂ on Ge with GeO₂ passivating interfacial layer', **Journal of ECS Transactions** 16 (10) 767 (2008).
- B11.** A. Dimoulas, Y. Panayiotatos, P. Tsiapas, S. Galata, G. Mavrou, A. Sotiropoulos, C. Marchiori, C. Rossell, D. Webb, C. Andersson, M. Sousa, M. Richter, J. Fompeyrine, 'Gate Dielectrics for High Mobility Semiconductors', **Journal of ECS Transactions** 16 (5) 295 (2008).
- B12.** S.F. Galata, M.A. Lourenco, R.M. Gwilliam and K.P. Homewood, 'Sulfur doped Silicon light emitting diodes', **Materials Science and Engineering B** 124-125 (SUPPL.), pp. 435-439 (2005).
- B13.** M.A. Lourenco, M. Milosavljevic, S. Galata, M.S.A. Siddiqui, G. Shao, R.M. Gwilliam and K.P. Homewood, 'Silicon based light emitting devices', **Journal of Vacuum** 78, 551 (2005).

- B14.** R. Gwilliam, M.A. Lourenco, S. Galata, K.P. Homewood, G. Shao, 'Efficient optical sources in silicon using dislocation engineering', Photonics for Space Environments VIII, **Proceedings of the Society of Photo-optical Instrumentation engineers (SPIE)** 4823 155-161 (2002).

9 PUBLICATIONS IN INTERNATIONAL AND NATIONAL CONFERENCES

- C1.** S.F. Galata, G.T. Malliaros, I. Stavrakas, K. Moutzouris, D. Triantis, 'Electrical Characterization on PVDF-Graphene samples', **30th Panhellenic Conference on Solid-State Physics & Materials Science**, Athens, Greece, 21-24 September (2014).
- C2.** A. Olziersky , V. Constantoudis , N. Tsikrikas , E. Gogolides , S. Galata, G.P. Patsis, 'Feature proximity effects on the roughness and size variability of electron beam contact patterns', **58th International Conference on Electron, Ion and Photon Beam Technology & Nanofabrication (EIPBN)** , Washington, USA, 27-30 May (2014) (invited).
- C3.** I. Barmaxizoglou, I. Stavrakas, D. Triantis and S.F. Galata, 'Thickness effect on the electrical properties of $\text{Si}_3\text{N}_4/\text{n-Si}$ Metal-Insulator-Semiconductor capacitors', **XXIX Panhellenic Conference on Solid-State Physics & Materials Science**, Athens, Greece, 22-25 September (2013).
- C4.** D. Tsoutsou, Y. Panayiotatos, A Sotiropoulos, G. Mavrou, S.F. Galata, E. Golias and A. Dimoulas, 'Chemical stability of Lanthanum germanate passivating layer on Ge upon metal on high-k deposition', **MRS Spring Meeting**, San Francisco, USA, 7-9 April (2010).
- C5.** A. Dimoulas, G. Mavrou, D. Tsoutsou, Y. Panayiotatos, A. Sotiropoulos, S.F. Galata, E. Golias, C. Merckling and M. Caymax, 'Photoelectron Spectroscopy of the Initial Oxidation Stages of Al-covered GaAs Surfaces Under Atomic Oxygen Exposure Conditions', **MRS Spring Meeting**, San Francisco, USA, 7-9 April (2010).
- C6.** S.F. Galata, D. Tsoutsou, G. Apostolopoulos, P. Tsipas, A. Sotiropoulos, G. Mavrou, Y. Panayiotatos and A. Dimoulas, 'Stabilization of a very high-k tetragonal phase in Ge-doped ZrO_2 films grown by direct doping with Germanium', **XXV Greek Conference of Solid State Physics & Materials Science** , Thessaloniki, Greece, 20-23 September (2009).
- C7.** A. Dimoulas , D. Tsoutsou , S. Galata , G. Mavrou , Y. Panayiotatos , G. Apostolopoulos, 'Stabilization of a very high-k tetragonal ZrO_2 phase by direct doping with Germanium', **Electronic Materials Conference** 2009, Pennsylvania State University , Pennsylvania, USA, June 24-26 (2009).
- C8.** S.F. Galata, G. Mavrou , P. Tsipas , A. Sotiropoulos , Y. Panayiotatos , and A. Dimoulas , 'Metal-oxide-semiconductor devices on p-type Ge with La_2O_3 and $\text{ZrO}_2/\text{La}_2\text{O}_3$ as gate dielectric and the effect of post -metallization anneal', **15th Workshop on Dielectrics in Microelectronics (WoDIM)**, Berlin, Germany, DE, June 23-25 (2008).

- C9.** P. Tsipas, A. Sotiropoulos, S. Galata, G. Mavrou, Y. Panayiotatos, A. Dimoulas, E.K. Evangelou, 'GeO₂/ZrO₂ gate dielectrics stacks for Ge MOS devices', **European Materials Research Society (EMRS) Spring Meeting**, Strasbourg, FR, 26-30 May (2008).
- C10.** A. Dimoulas, G. Mavrou, S. Galata, Y. Panayiotatos, J. Fompeyrine, C. Marchiori, C. Rossel, 'Germanium MOS Physics and Technology', **European Materials Research Society (EMRS) Spring Meeting**, Strasbourg, FR, 26 -30 May (2008).
- C11.** S.F. Galata, G. Mavrou, P. Tsipas, A. Sotiropoulos, Y. Panayiotatos, E.K. Evangelou, and A. Dimoulas, 'HfO₂/La₂O₃ high-k dielectrics on Germanium', **International Conference on Silicon Epitaxy and Heterostructures (ISCI-5)**, Marseille, FR, 20-25 May (2007).
- C12.** G. Mavrou, S.F. Galata, P. Tsipas, A. Sotiropoulos, Y. Panayiotatos, A. Dimoulas, E.K. Evangelou, J.W. Seo, Ch. Dieker, 'Germanium MIS capacitors with rare earth gate La₂O₃ dielectric', **International Conference on Silicon Epitaxy and Heterostructures (ISCI-5)**, Marseille, FR, 20-25 May (2007).
- C13.** M.S. Rahman, E.K. Evangelou, I.I. Androulidakis, S. Galata, G. Mavrou, A. Dimoulas and D.F. Anagnostopoulos, "Reliability characteristics of rare earth oxides and their gate stacks on germanium substrate", **XXIII Greek Conference of Solid State Physics & Materials Science**, Athens, Greece, September 23-26 (2007).
- C14.** S.F. Galata, Y. Panayiotatos, A. Sotiropoulos, E.K. Evangelou and A. Dimoulas, 'Post-annealing treatment of La and Ce-based high-k dielectrics on Ge', **XI International Conference on the Physics of non Crystalline Solids**, Rhodes, GR, 29 October- 2 November (2006).
- C15.** Y. Panayiotatos, A. Sotiropoulos, S. Galata, A. Dimoulas, "Passivation of Ge surface using Ceria", **Electronic Materials Conference 2006**, Pennsylvania State University, Pennsylvania, USA, June 28-30 (2006).
- C16.** S.F. Galata, E.K. Evangelou, Y. Panayiotatos, A. Sotiropoulos, A. Dimoulas, 'Effects of post-annealing treatment on rare earth high-k dielectrics on Germanium', **14th Workshop on Dielectrics in Microelectronics (WoDIM)**, Catania, IT, June 26-28 (2006).
- C17.** S.F. Galata, M.A. Lourenço, R.M. Gwilliam and K.P. Homewood, 'Electroluminescence from Si:S LEDs', **European Materials Research Society (EMRS) Spring Meeting**, Strasbourg, FR, 31 May – 3 June (2005).

10 CITATIONS FROM OTHER AUTHORS

On Google Scholar (11/28/2023), there are a total of **713** citations in the above published work with **h-index = 14**. <https://scholar.google.com/citations?hl=el&user=ncwhzz0AAAAJ>

In Scopus (11/28/2023), there are a total of **660** citations in the above published work with **h-index = 13**. https://www.scopus.com/cto2/main.uri?origin=resultslist&stateKey=CTOF_1718881061

11 INVITED TALKS

- S.F. Galata, S. Vassiliadis, A. Poujol, A. Repoulas , D. Matsouka and G. Priniotakis , 'A review on Triboelectricity and textile structures', Polytechnic University of Tirana, Department of Textile Engineering, Tirana, Albania, 15th November (2021).

12 PARTICIPATION IN RESEARCH & DEVELOPMENT PROGRAMS

- *European program TECHTEX (Development of technical textiles' skills for the Moroccan textile industry)*

Time period: Dec. 2023-Nov. 2026

Subject: Development of textile technical skills for the Moroccan textile industry. (Implementation of co-creation workshops in Morocco in order to align the needs between skills demanded from industries with vocational education and training centers).

- *European program DUALLOGIC (Dual-channel CMOS for (sub)-22 nm high performance logic, 7th Framework Program, IST - Strategic objective 3.1: " Next Generation Nanoelectronics Components & Electronics Integration."*

Time period: 2008-2010

Subject: Research within the framework of the DUALLOGIC project, (Development of oxides on semiconductors and their electrical characterization with the aim of manufacturing two-channel CMOS for use in high-performance logic integrated circuits.

- *European program ET 4 US (Epitaxial Technologies for Ultimate Scaling), 6th Framework Program, IST - Strategic objective 2.3.1.1: "Pushing the limits of CMOS, preparing for post CMOS."*

Time period: 2005-2007

Subject: Research within the framework of the ET 4 US project, (Development of a new technology for manufacturing logic microelectronic devices of high performance of mass consumption based on high-speed semiconductors and semiconductor-on-insulator type substrates).

- *European High dielectrics on Silicon' program, IST*

Time period: 2007

Subject: Research within the framework of the High project dielectrics on Silicon, (development of high dielectric constant dielectrics with the aim of incorporating them into Si- based CMOS technology so as to increase the density and functionality of integrated circuits.

- *National program. "Study of high-speed CMOS nano -devices (NANOCMOS) based on Germanium technology", PYTHAGORAS II YP. 27.*

Time period: 2005-2007

Object: Development of ultrathin of film oxides on Germanium substrates by the MBE method and electrical characterization of MOS devices.

13 ORGANIZATION OF CONFERENCES

- *Member of the Organizing Committee for the international conferences:*
 - **MOCAST 2023**
International Conference on Modern Circuits and Systems Technologies
28-30 June 2023, Athens, Greece
<http://mocaust.physics.auth.gr/>
 - **ESSDERC 2009**
39th European Solid-State Device Research Conference
14-18 September 2009, Athens, Greece
<http://www.essderc2009.org/?pid=15>
 - **INFOS 2007**
15th – Biannual Conference Insulating Films on Semiconductors
20-23 June 2007, Glyfada, Athens, Greece
<http://www.infos2007.gr/?page=committees>
- *Organizing Committee Assistant for the international conference:*
 - **ECAART 7**
Conference on Accelerators in Applied Research and Technology
University of Surrey, 21-25 August 2001, Guildford, UK.

14 MEMBER OF TECHNICAL CONFERENCE COMMITTEES

- MOCAST (International Conference on Modern Circuits and Systems Technologies)
- PACET (Panhellenic Conference on Electronics and Telecommunications)

15 REVIEWER FOR INTERNATIONAL SCIENTIFIC JOURNALS AND CONFERENCES

- *Reviewer for **international journals**:*

- JOURNAL OF NON-CRYSTALLINE SOLIDS
- MICROELECTRONICS ENGINEERING
- JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY B
- JOURNAL OF APPLIED PHYSICS
- *Reviewer for **international conferences**:*
 - MOCAST (International Conference on Modern Circuits and Systems Technologies)

16 FURTHER RESEARCH WORK

- Submission of a proposal within the framework of the Erasmus + ERASMUS - EDU -2022- CB - VET 'TechTex ' project (2023).
- Submission proposal at frames of project Erasmus+ KA220-HED-1D67A1A9, 'Strategic Partnerships to Raise Awareness of Fast Fashion and Sustainability in Textile (Wasteless)', (2022).
- Participation in Submission proposal with title "Gate Length Variability Modeling in Devices and Circuits for Future Technology Nodes Stochastic Lithography Simulator for VLSI" Excellence 2012.
- Participation in Submission proposal with title "Gate Length Variability Modeling in Devices and Circuits for Future Technology Nodes", Excellence 2011.
- Writing, submission of proposal and final implementation a research project with object the elaboration experiments in the Research Centre'Fondazione Bruno Kessler'-IRST of Italy, under the frame of European European Integrated Activity of Excellence and Networking for Nano and Micro-Electronics Analysis (ANNA) network of the 6th framework support the European Union (2008-2009).
- Development of Sb on (vicinal) Si (001) films, in the context of the diploma thesis for the degree in Physics of the School of Applied Sciences prepared at the Technical University of Berlin, Germany (Technische Universitaet Berlin (TUB)). The technical methods applied are the following: Reflectance Anisotropy Spectroscopy (RAS), Low Energy Electron Diffraction (LEED) and Raman Spectroscopy (1999-2000).
- Participation in X - ray absorption experiments of opto-electronic materials at the BESSY II international laboratory (Sycrontron Radiation facility) of Berlin, Germany (1999).

17 MEMBER OF ELECTORAL COMMITTEES

2020	Member of the electoral committee for an Assistant Professor faculty member in the area of "Nonlinear optical arrangements of nanostructures
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for optical communication systems", Department of Informatics and Telecommunications of the University of Ioannina, Greece.

18 MEMBER OF SCIENTIFIC ASSOCIATIONS

- Member of Balkan Society of Textile Engineers (BASTE).
- Member of the Hellenic Society of Condensed Matter Science (EEETSY).
- Member of the Union of Greek Physicists.
- Member of Institute of Physics (MInstP) from in 2001-2005.

19 RESEARCH INTERESTS

- Smart textiles.
- Triboelectricity in textile structures.
- Dielectric spectroscopy of polymers doped with graphene and carbon nanotubes.
- Fabrication of germanium-based metal-oxide-semiconductor electronic devices using molecular beam epitaxy.
- X-ray diffraction (XRD, XRR) and transmission electron microscopy (TEM) techniques.
- Electrical characterization of the above electronic devices and in particular, electrical measurements of capacitance-voltage and current-voltage at room temperature. Also, electrical measurements at lower temperatures up to 80 K in a special device (cryostat).
- Theoretical treatment of the above experiments. Calculation of the oxide dielectric constant of MOS electronic devices.
- Qualitative analysis of dielectric surfaces using X-ray electron spectroscopy (XPS) and ultraviolet electron spectroscopy (XPS) techniques.