

Short Curriculum Vitae

Name	Georgios Dimitrakopoulos
<i>Position</i>	Professor, Physics Department, AUTH
<i>Studies</i>	<ul style="list-style-type: none"> • Ph.D. in Physics, Physics Departments, AUTH (1999) • M.Sc. (Eng.) with distinction in Advanced Engineering Materials, Department of Materials Science & Engineering, University of Liverpool, UK (1990) • B.Sc. in Physics, Physics Department, AUTH (1989)
<i>Scientific Experience</i>	<ul style="list-style-type: none"> • Professor, Physics Department, AUTH (2014 - to date) • Associate Professor, Physics Department, AUTH (2014-2019) • Assistant Professor, Physics Department, AUTH (2007-2014) • Postgraduate Fellow, Physics Department, AUTH (1999–2007) • Member of the Institute of Physics (MInstPhys) - Chartered Physicist (CPhys) – Member of the IoP Electron Microscopy and Analysis Group • Member of the European Microscopy Society (EMS) • Secretary of the Hellenic Electron Microscopy Society • Member of the European Materials Research Society (EMRS) • Member of the Hellenic Society for the Science and Technology of Condensed Matter (HSSTCM)
<i>Research Work</i>	<ul style="list-style-type: none"> • >110 papers in international peer-reviewed journals • >220 announcements and papers in proceedings of international conferences and schools • 4 book chapters • Scientist in charge of 8 research projects. Participating scientist in 27 research projects. • Member of 12 conference organization committees • Reviewer in 25 international scientific journals • Supervisor of 14 M.Sc. theses • Supervisor of 4 PhD theses and member of 3 PhD advisory committees. • 17 invited talks <p>Research topics: Physics of Materials. Electron Microscopy and Structural Properties of Materials. Interfaces, Defects in Solids, Nanoelasticity, Heterostructures, Nanostructures.</p>
<i>Recent papers</i>	<ol style="list-style-type: none"> 1. Structural anisotropic properties of <i>a</i>-plane GaN epilayers grown on <i>r</i>-plane sapphire / <i>J. Appl. Physics</i> 115, 213506 (2014). / A. Lotsari, Th. Kehagias, G. Tsiakatouras, K. Tsagaraki, M. Katsikini, J. Arvanitidis, D. Christofilos, S. Ves, Ph. Komninou, A. Georgakilas, and <u>G. P. Dimitrakopoulos</u> 2. Observation of Surface Dirac Cone in High-Quality Ultrathin Epitaxial Bi₂Se₃ Topological Insulator on AlN(0001) Dielectric / <i>ACS Nano</i> 8, 6614 (2014). / P. Tsipas, E. Xenogiannopoulou, S. Kassavetis, D. Tsoutsou, E. Golias, C. Bazioti, <u>G. P. Dimitrakopoulos</u>, et al.

3. **High quality large area MoSe₂ and MoSe₂/Bi₂Se₃ heterostructures on AlN(0001)/Si(111) substrates by molecular beam epitaxy** / *Nanoscale* **7**, 7896 (2015). / E. Xenogiannopoulou, P. Tsipas, K. E. Aretouli, D. Tsoutsou, S. A. Giamini, C. Bazioti, G. Dimitrakopoulos, et al.
4. **Sub-surface laser nanostructuring in stratified metal/dielectric media: a versatile platform towards flexible, durable and large-scale plasmonic writing** / *Nanotechnology* **26**, 155301 (2015). / A. Siozios, N. Kalfagiannis, D. V. Bellas, C. Bazioti, G. P. Dimitrakopoulos, et al.
5. **Defects, strain relaxation, and compositional grading in high indium content InGaN epilayers grown by molecular beam epitaxy** / *J. Appl. Phys.* **118**, 155301 (2015). / C. Bazioti, E. Papadomanolaki, Th. Kehagias, T. Walther, J. Smalc-Koziorowska, E. Pavlidou, Ph. Komninou, Th. Karakostas, E. Iliopoulos, and G. P. Dimitrakopoulos
6. **Structure, strain, and composition profiling of InAs/GaAs(211)B quantum dot superlattices** / *J. Appl. Phys.* **119**, 034304 (2016). / N. Florini, G. P. Dimitrakopoulos, et al.
7. **Stacking fault domains as sources of a-type threading dislocations in III-nitride heterostructures (Highlight paper)** / *Appl. Phys. Lett.* **108**, 051901 (2016). / J. Smalc-Koziorowska, C. Bazioti, M. Albrecht, and G.P. Dimitrakopoulos*
8. **Study of fully epitaxial Fe/Pt bilayers for spin pumping by ferromagnetic resonance spectroscopy** / *Phys. Rev. B – Cond. Matter and Mater. Phys.* **93**, 134405 (2016). / A. Conca, S. Keller, L. Mihalceanu, Th. Kehagias, G.P. Dimitrakopoulos, et al.
9. **Enhanced Stark Tuning of Single InAs (211)B Quantum Dots due to Nonlinear Piezoelectric Effect in Zincblende Nanostructures** / *Phys. Rev. Applied* **6**, 014004 (2016). / S. Germanis, C. Katsidis, S. Tsintzos, A. Stavriniadis, G. Konstantinidis, N. Florini, J. Kioseoglou, G.P. Dimitrakopoulos, et al.
10. **Photoluminescence enhancement of ZnO via coupling with surface plasmons on Al thin films** / *J. Appl. Phys.* **121**, 103104 (2017). / S. Dellis, N. Kalfagiannis, S. Kassavetis, C. Bazioti, G.P. Dimitrakopoulos et al.
11. **Exploring the Leidenfrost Effect for the Deposition of High-Quality In₂O₃ Layers via Spray Pyrolysis at Low Temperatures and Their Application in High Electron Mobility Transistors** / *Adv. Functional Materials* 1606407 (2017). / I. Isakov, H. Faber, M. Grell, G. Wyatt-Moon, N. Pliatsikas, Th. Kehagias, G. P. Dimitrakopoulos, et al.
12. **Heterojunction oxide thin-film transistors with unprecedented electron mobility grown from solution** / *Science Advances* **3**, e1602640 (2017). / H. Faber, S. Das, Y.-H. Lin, N. Pliatsikas, K. Zhao, Th. Kehagias, G. Dimitrakopoulos, et al.
13. **Investigation of magnetic coupling in FePt/spacer/FePt trilayers** / *J. Phys. D: Appl. Phys.* **50**, 445002 (2017). / A. Kaidatzis, G. Giannopoulos, G. Varvaro, G. Dimitrakopoulos, et al.

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| | <p>14. 3-D Strain Fields in Low-Dimensional III-V Semiconductors: A Combined Finite Elements and HRTEM Approach / <i>Phys. Status Solidi (a)</i> 215, 1700409 (2018). / N. Florini, <u>G. P. Dimitrakopoulos</u>, et al.</p> <p>15. Compositional and strain analysis of In(Ga)N/GaN short period superlattices (<i>Highlight paper</i>) / <i>J. Appl. Phys.</i> 123, 024304 (2018). / <u>G. P. Dimitrakopoulos</u>, et al.</p> <p>16. Stabilization of Cr-rich tannery waste in fly ash matrices / <i>Waste Management & Research</i> 36, 818-826 (2018). / A. Daniil, <u>G.P. Dimitrakopoulos</u>, et al.</p> <p>17. Evolution of stratification in high-alloy content InGaN epilayers grown on (0001)AlN / <i>Mater. Sci. & Tech.</i> 34, 1565-1574 (2018). / <u>G.P. Dimitrakopoulos</u>, et al.</p> |
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