

## Curriculum vitae

Specialist Furkan KURUOGLU

## Contact information

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## Degrees

2012- PhD. Physics, Yildiz Technical University, Istanbul, Turkey

2009 - 2012 MSc. Physics, Yildiz Technical University, Istanbul, Turkey;

Thesis Entitled "Electrical, Optical and Structural Investigation of Metal/Polyarylate/CdS/ITO Hybrid Thin Film Junctions"

[Supervised by Assoc. Prof. Dr. Merih Serin ]

2005 - 2009 BSc. Physics, Trakya University, Edirne, Turkey

## Employment

2014- Specialist, Department of Physics, Istanbul University

2013- 2014 Instructor, Turkish Air Force Academy

## Research Areas

Solid-state Electronics, Electron Beam Lithography, Ion Beam Lithography, SEM, Semiconductor Device Fabrication and Characterization, MIS diodes. Organic Materials

## Computer skills

Fortran, Matlab, PHP, Mathematica, SolidWorks, OriginPro, T<sub>E</sub>X (L<sup>A</sup>T<sub>E</sub>X, BibT<sub>E</sub>X), MS Office and most common productivity packages (for Windows & Mac OS)

## Publications

### SCI Papers

Sesigür F., Şakar D., Kuruoğlu F., Çakar F., Çalışkan M., Cankurtaran Ö., Serin M., "Electrical And Thermodynamical Characterization Of Thermotropic Liquid Crystal", Optoelectronics and Advanced Materials: Rapid Communications, no.5, ss.572-576, 2011

Nutku F., Dönmez Ö., Çokduygulular E., Sarcan F., Kuruoğlu F., Mutlu S., et al., "Effect of thermal annealing and nitrogen composition on quantum transport in GaInNAs alloy based modulation doped quantum well structures", JOURNAL OF ALLOYS AND COMPOUNDS,

vol.695, no.25, pp.404-409, 2017

Sarcan F., Nordin M.S., Kuruoğlu F., Erol A., Vickers A.J., "Characterization of temperature dependent operation of a GaInNAs-based RCEPD designed for 1.3  $\mu\text{m}$ ", SUPERLATTICES AND MICROSTRUCTURES, vol.102, pp.27-34, 2017

Misirlioglu B.S., Serin M., Kuruoğlu F., Dasdan D.S., "Optical Properties of Polyaniline Synthesized by Oxidative Polymerization and Electrical Characterization of Ag/PANI/PEDOT:PSS/Ag Structures", JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, pp.219-224, 2016

Sarcan F., Nutku F., Dönmez Ö., Kuruoğlu F., Mutlu S., Erol A., et al., "Quantum oscillations and interference effects in strained n- and p-type modulation doped GaInNAs/GaAs quantum wells ", JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, pp.305108-305116, 2015

Serin M., Kuruoğlu F., Mogulkoc M., Caliskan M., Yalcin-Gurkan Y., Yasa-Sahin O., Sakar D., Bilgin-Eran B., "Electrical, Optical And Theoretical Characterization Of Doped And Undoped Calamitic Liquid Crystal: (S)-5-Octyloxy-2-[[[4-(2-Methyl Butoxy) Phenyl] Imino] Methyl] Phenol", OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.8, pp.483-487, 2014

Caliskan M., Kuruoğlu F., Serin M., "Au/Par/N-Cds/Ito Polymer Insulated Mis Structure", JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.16, pp.705-711, 2014

Caliskan M., Kuruoğlu F., Serin M., "Characterization Of Cu/Par/Cds Mis Structure For Sensor Applications", OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.8, pp.603-607, 2014