

Curriculum vitae

Assistant Professor Kamuran KARA

Contact information

Faculty of Science, Physics Department
Istanbul University, Vezneciler, Fatih, 34134 Istanbul, TURKEY

Phone: +90 212 440 00 00 [Ext. 15429]

kamuran.kara@istanbul.edu.tr | karakamuran@gmail.com

<http://nano-optoelectronics.org>



Degrees

2009-2013 PhD. Physics, Cukurova University, Adana, Turkey

Thesis Entitled "*Comparison of the photoconductivity properties of n and p-type ZnO (Zinc Oxide) Which are Grown by Pulsed Filtered Cathodic Arc Deposition Method*"

[Supervised by Prof. R. Esen]

2005-2008 MSc. Physics, Cukurova University, Adana, Turkey

Thesis Entitled "*p-type ZnO (Zinc Oxide) Which Are Grown By Pulsed Filtered Cathodic Arc Deposition Method and Structural Properties*"

[Supervised by Prof. R. Esen]

1999-2005 BSc. Physics, Cukurova University, Adana, Turkey

Employment

2014 – Assistant Professor, Department of Physics, Istanbul University

Scholarly activities

2013 Local Organizing Committee Member of, COST Action MP0805 "Novel Gain Materials and Devices Based on III-V-N/Bi Compounds", September 2013

Research Areas

Production of n- and p-type ZnO semiconductor thin films, Supermolecules, GaAsBi epilayers, Pulsed Filtered Cathodic Vacuum Arc Deposition System, Organic Molecular Beam Epitaxy, Optical Characterization (Spectrophotometer), Structural Characterization (XRD, XPS, EDX, AFM, SEM, STM), Electrical Characterization (Hall Effect Measurement), Photoconductivity

Membership of Professional Societies

Turkish Physics Society

Awards

2011-2013 Institute of Naturel and Applied Sciences Scholarship

2010-2011 Erasmus Exchange Study Program and Scholarship

Computer skills

MS Office programs, X-POWDER, XPS-PEAK, IGOR, Origin, Excelinx, Grapher

Publications

SCI Papers

Takci K.D., Şenadim Tüzemen E. , Kara K., Yılmaz Ş., Esen R., Bağlayan Ö., "Influence Of Al Concentration On Structural And Optical Properties Of Al-Doped ZnO Thin Films", Journal of Materials Science, 25, 2078-2085, 2014

Sarcan F., Dönmez Ö., Kara K., Erol A., Akalin E., Arikan M.Ç., Makhloufi H., Arnoult A., Fontaine C., "Bismuth-Induced Effects On Optical, Lattice Vibrational, And Structural Properties Of Bulk GaAsBi Alloys", Nanoscale Research Letters, 9, 119-126, 2014

Şenadim Tüzemen E. , Kara K., Alagöz S., Takçi D.K., Altuntaş İ., Esen R., "Structural And Electrical Properties Of Nitrogen-Doped Zno Thin Films", Applied Surface Science, Article in Press, 2014

Erdoğan N.H., Kara K., Özdamar H., Esen R., Kavak H., "Effect Of The Oxidation Temperature On Microstructure And Conductivity Of Zn_xn_y ", Applied Surface Science, 271, 70-76, 2013

Muellegger S., Schoefberger W., Rashidi M., Lengauer T. , Klappenberger F., Katharina Diller D., Kara K., Barth J.V. , Rauls E., Schmidt W.G., Koch R., "Preserving Charge And Oxidation State Of Au(III) Ions In An Agent-Functionalized Nanocrystal Model System", ACS Nano, 5, 6480-6486, 2011

Erdoğan N.H. , Kara K., Özdamar H., Kavak H., Esen R., Karaağaç H., "Structural, Optical And Electrical Properties Of N- Doped Zno Thin Films Prepared By Thermal Oxidation Of Pulsed Filtered Cathodic Vacuum Arc Deposited Zn_xn_y Films", Journal of Alloys and Compounds, 509, 8922-8926, 2011

Kavak H. , Erdoğan N.H., Kara K., Yanış H., Baz Z., Esen R., "Characterization Of n and p-type ZnO Thin Films Depoisted By Cathodic Pulsed Filtered Vacuum Arc System", International Journal Of Modern Physics B, 23, 1719 -1724, 2009

Non SCI Papers

Şenadim Tüzemen E., Şahin H., Kara K., Alagöz S., Esen R. , "Xrd, Xps, And Optical Characterizations Of Al-Doped ZnO Film Grown On GaAs ", Turkish Journal of Physics, cilt.38, ss.111-117, 2014

Şenadim Tüzemen E., Alagöz S., Şahin H., Kara K., Esen R., Bulut A., "Effects Of Annealing On Reflectance Of ZnO Grown By PFCVAD", MARMARA ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ, cilt.25, ss.41-50, 2013

Kara K., Şenadim Tüzemen E., Esen R. , "Annealing Effects of ZnO Thin Films on p-Si(100) Substrate Deposited by PFCVAD", Turkish Journal of Physics, In Press, 2014.