

Curriculum Vitae

Burak KAY

Contact Information

Faculty of Science, Physics Department
Istanbul University, Vezneciler, Fatih, 34134 Istanbul, TURKEY
Phone: +90 212 455 57 00 [Ext. 15428]
Mobile Phone: +90 532 488 27 32



burak.kay@ogr.iu.edu.tr | burak17kay@gmail.com
<http://nano-optoelectronics.org>

Degrees

- 2016 - Master of Science Solid State Physics, Istanbul University, Turkey
- 2016 - BA. History, Istanbul University, Turkey
- 2011 - 2015 BSc. Astronomy and Space Science, Istanbul University, Istanbul, Turkey
- 2012 - 2013 Minor Program Physics, Istanbul University, Istanbul, Turkey
- 2012 - Associate of Arts Justice, Anadolu University, Eskisehir, Turkey

Employment

- 2016 – Present, Researcher, Advance Lithography Laboratory, Department of Physics, Istanbul University
- 2014 – Present, Researcher, High Magnetic Field and Low Temperatures Laboratory, Department of Physics, Istanbul University
- 2013 – Present, Researcher, Nano-optoelectronics Research Laboratory, Department of Physics, Istanbul University
- 2013 – 2016, Student Council Responsible for Education, Istanbul University, Istanbul, Turkey
- 2014 – 2016, Faculty Representative, Faculty of Science, Istanbul University, Istanbul, Turkey
- 2014 – 2016, Department Representative, Astronomy and Space Science, Istanbul University, Istanbul, Turkey
- 2013 – 2014, Vice-president, Amateur Astronomers Club, Department of Astronomy and Space Science, Istanbul University

Scholarly Activities

- National Astronomy Congress, UAK-20, September 2016
- 9th International Physics Conference of the Balkan Physical Union – BPU9, August 2015
- 31th Turkish Physics Society International Physics Congress, July 2014
- Meeting Organizer, Amateur Astronomers Club "Equinox Meeting", March 2014
- Local Organizing, COST Action MP0805 "Novel Gain Materials and Devices Based on III-V-N/Bi Compounds", September 2013
- Feza Gürsey Physics Summer School, "Hakkı Ögelman Astronomlar için Fizik Yaz Okulu", September 2013
- 30th Turkish Physics Society International Physics Congress, September 2013
- ISCBPU-10, 10th International Student Conference, September 2013
- Astronomy Workshop, "Küçük Teleskoplarla Bilim", May 2013
- Astronomy Symposium, "Türkiye'deki Teleskoplarla Bilim Sempozyumu", May 2012

Awards

- İnönü Foundation Scholarship, 2011 - 2015
- Vehbi Koc Foundation (VKV) Scholarship, 2002 – 2009

Membership of Student Societies

- Amateur Astronomers Club, Istanbul University
- Scientific and Social Research Club, Founding Member, Istanbul University
- Physics Club, Istanbul University

Experience

Use of cleanroom; Mask Aligner, Twin Chamber Thermal Evaporator, Profilometer, Wet Benches, Atomic Force Microscopy, Wire Bonder, Rapid Thermal Annealing System.

Computer Skills

MS Office programs, Matlab, Web design tools (HTML language, Dreamweaver), Origin, C, Q Basic, Pascal, MySQL

Presentation

Burak Kay, "Doğu Anadolu Gözleminde Kullanılacak Düşük Sıcaklıklı Algılayıcı - Optical and Near-IR Microwave Kinetic Inductance Detector", Istanbul University Faculty of Science Department of Astronomy, Istanbul, Turkey, June 2015

Burak Kay, “Semiconductor Technologies”, Istanbul University Faculty of Science
Department of Astronomy, Istanbul, Turkey, March 2014

Publications

Proceedings

Tolga Güver, Benjamin A. Mazin, Kieran O'Brien, **Burak Kay**, Sinan Aliş, F. Korhan Yelkenci, Cahit Yeşilyaprak, Sinan K. Yerli, Ayşe Erol, Onur Keskin, A microwave kinetic inductance detector for the DAG telescope, Proc. Of SPIE Vol. 9915, 99152P, 2016, doi: 10.1117/12.2234281

Poster Presentation

Burak Kay, Ergün Ege, Tolga Güver, Benjamin A. Mazin, Kieran O'Brien, Sinan Aliş, F. Korhan Yelkenci, Cahit Yeşilyaprak, Sinan K. Yerli, Ayşe Erol, Onur Keskin, Doğu Anadolu Gözlemevi'nde Kullanılacak MKID'e Genel Bir Bakış, National Astronomy Congress, UAK-20, P09 INST - 002, September 2016

Ergün Ege, **Burak Kay**, Tolga Güver, Benjamin A. Mazin, Kieran O'Brien, Sinan Aliş, F. Korhan Yelkenci, Cahit Yeşilyaprak, Sinan K. Yerli, Ayşe Erol, Onur Keskin, DAG Teleskobu MKID Detektörü için Bilgisayar Donanım ve Yazılım Altyapısı, National Astronomy Congress, UAK-20, P09 INST - 001, September 2016

Tolga Güver, Benjamin A. Mazin, Kieran O'Brien, **Burak Kay**, Sinan Aliş, F. Korhan Yelkenci, Cahit Yeşilyaprak, Sinan K. Yerli, Ayşe Erol, Onur Keskin, A microwave kinetic inductance detector for the DAG telescope (DAG-MKID), SPIE Astronomical Telescopes + Instrumentation, 9915-101, June 2016

Popular Journal of Science

Burak Kay, “Üniversite, Temel Bilimler; Neden varlar? Temel Bilimler İçin Uygun muyuz? “, Journal of Physics Istanbul, 1, 18, December 2013