

## Education

- M.Sc. Physics, Izmir Institute of Technology, 2004
- B.Sc. Physics, Ege University, 2000

## Experience

- Izmir Institute of Technology - Instructor [2018- ]
- Izmir Institute of Technology – IT Specialist [2005-2018]
- Izmir Institute of Technology – Teaching Assistant [2001-2005]

## Research Projects

- *ASELSAN SAN-TEZ Project (Researcher)* *Izmir-TURKEY* [2012-2015]  
Terahertz Wave Sensitive Bolometric Detector
- *TAEK Research Project (Researcher)* *Izmir-TURKEY* [2012-2014]  
Search for Supersymmetric Models Allowing for Light Scalar TOP Quark at the CMS Detector in Single Lepton + b-JET and Missing Transverse Energy Data
- *TAEK Research Project (Researcher)* *Izmir-TURKEY* [2009-2011]  
Search for New Force Laws at The CERN CMS Experiment
- *TUBITAK Research Project (Researcher)* *Izmir-TURKEY* [2007-2010]  
Design of Robust Photonic Crystal Optical Fibers and Line Defect Waveguides
- *İYTE BAP Project (Researcher)* *Izmir-TURKEY* [2006-2007]  
Parallelization of Student Computer Lab
- *İYTE BAP Project (Researcher)* *Izmir-TURKEY* [2003-2004]  
Design of Photonic Crystal Optical Fiber

## Research Activities

- CERN  
*Visiting Scientist* Geneva-SWITZERLAND [June 2014]
- CERN  
*Visiting Scientist* Geneva-SWITZERLAND [February 2013]
- ISSCSMB 12 Summer School Antalya-TURKEY [September 2012]
- HEP Winter School Bursa-TURKEY [February 2012]
- CERN  
*Visiting Scientist* Geneva-SWITZERLAND [July-August 2010]
- CERN  
*Visiting Scientist* Geneva-SWITZERLAND [July 2009]
- İstanbul Technical University  
High Performance Computing Summer School İstanbul-TURKEY [July 2007]
- ICFO  
Visiting Scientist (HPC-Europa programme) Barcelona-SPAIN [January-March 2007]
- İstanbul Kultur University  
Linux and Academic Applications Summer School İstanbul-TURKEY [August 2006]
- 22th TPS Congress  
Oral Presentation, "1-D Photonic Crystal Waveguide" Bodrum-TURKEY [September 2004]
- 22th TPS Congress  
Oral Presentation, "Randomness in 1-D Photonic Crystal" Bodrum-TURKEY [September 2004]

## Publications

- "Tuning thermal transport in graphene via combinations of molecular antiresonances", K. Sevim, H. Sevincli, Carbon 140, 603 (2018).
- "Structural, vibrational, and electronic properties of single-layer hexagonal crystals of group IV and V elements", B. Ozdamar, G. Ozbilal, M. N. Cinar, K. Sevim, G. Kurt, B. Kaya, and H. Sevincli, Phys. Rev. B 98, 045431 (2018).
- "Robustness of one-dimensional photonic band gaps under random variations of geometrical parameters", H. S. Sozuer, K. Sevim, Phys. Rev. B 72, 195101 (2005).

## Teaching Experience

- Introduction to Programming for Physicist [2018]
- Programming for Physicist [2014-2018]
- Computational Physics [2014-2017]

## Programming Languages & Tools

- Fortran
- C
- C++
- Bash-Shell Programming
- Matlab
- Python
- VASP
- DTFB+

## Conference Organizations

- **Science&Applications of Thin Films Conference(SATF2018) 2018**  
Local Organizing Committee & IT Responsible
- **25th Statistical Physics Days (IFG25) 2018**  
Local Organizing Committee & IT Responsible
- **Recent Progress in the Physics of Thermal Transport 2017**  
IT Responsible
- **24th Statistical Physics Days (IFG24) 2017**  
Local Organizing Committee & IT Responsible
- **Science&Applications of Thin Films Conference(SATF2016) 2016**  
Local Organizing Committee & IT Responsible
- **Physical, Biological & Chemical Foundations of Bioelectronics, Biophotonics, Biosensors 2016**  
IT Responsible
- **Workshop on Photonics: Fundamentals & Applications 2015**  
IT Responsible
- **First Joint METU-IPM Conference on LHC Physics 2015**  
Local Organizing Committee & IT Responsible
- **Science&Applications of Thin Films Conference(SATF2014) 2014**  
Organizing Committee & IT Responsible
- **Advanced Workshop on Landau-Zener Interferometry & Quantum Control in Condensed Matter 2014**  
IT Responsible
- **Izmir High Energy Physics Workshop 2013**  
Organizing Committee & IT Responsible

- **Izmir Condensed Matter Physics Meeting 2013**  
IT Responsible
- **Izmir High Energy Physics Workshop 2012**  
Organizing Committee & IT Responsible
- **The 8th International Symposium on Intrinsic Josephson Effects and Plasma Oscillations in High-Tc Superconductors 2012**  
Local Organizing Committee & IT Responsible
- **Izmir Condensed Matter Physics Meeting 2012**  
IT Responsible
- **National Superconductivity Symposium 2011**  
Local Organizing Committee & IT Responsible
- **6th Nanotechnology and Nanoscience Conference 2010**  
Local Organizing Committee & IT Responsible