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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fizik (Dr), Turkey 2014 - Continues

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fizik (YI) (Tezli), Turkey 2012 - 2014

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey 2008 - 2012

Undergraduate Double Major, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 2008 - 2012

Dissertations

Postgraduate, Image reconstruction based on active scan techniques in the terahertz frequency range, Middle East Technical University, Graduate School of Natural and Applied Sciences, Fizik (YI) (Tezli), 2014

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Observation of Gate-Tunable Coherent Perfect Absorption of Terahertz Radiation in Graphene**
Kakenov N., Balci O., Takan T., ÖZKAN V. A., Akan H., KOCABAŞ C.
ACS PHOTONICS, vol.3, no.9, pp.1531-1535, 2016 (SCI-Expanded)
- II. **Characterization of a terahertz wave scanned imaging system for threat detection at standoff distances**
YILDIRIM İ. S., ÖZKAN V. A., Idikut F., Takan T., ŞAHİN A. B., ALTAN H.
OPTICAL AND QUANTUM ELECTRONICS, vol.48, no.7, 2016 (SCI-Expanded)
- III. **Graphene-enabled electrically controlled terahertz spatial light modulators**
Kakenov N., Takan T., ÖZKAN V. A., Balci O., Polat E. O., ALTAN H., KOCABAŞ C.
OPTICS LETTERS, vol.40, no.9, pp.1984-1987, 2015 (SCI-Expanded)

Books & Book Chapters

- I. **Compressive Sensing Imaging at Sub-THz Frequency in Transmission Mode**

ÖZKAN V. A., Menteşe Y., TAKAN T., ŞAHİN A. B., ALTAN H.

in: THz for CBRN and Explosives Detection and Diagnosis, Mauro Pereira, Oleksiy Shulika, Editor, Springer Netherlands, Dordrecht, pp.49-55, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Modeling deep brain stimulation effects on amplitude and coupling behavior of beta and high-frequency oscillations**
ÖZKAN V. A., ÖZKURT T. E.
Coupling and Causality in Complex Systems, 25 - 27 September 2017
- II. **Observation of Gate-Tunable Coherent Perfect Absorption of Terahertz Waves in Graphene**
KOCABAŞ C., Kakenov N., Balcı O., TAKAN T., ÖZKAN V. A., ALTAN H.
APS March Meeting 2017, 13 - 17 March 2017
- III. **340 GHz imaging system for detection of concealed threat objects at 5 meters stand-off distance (Conference Presentation)**
YILDIRIM İ. O., ÖZKAN V. A., TAKAN T., ŞAHİN A. B., ALTAN H.
SPIE Security Defence, Edinburgh, United Kingdom, 26 - 29 September 2016
- IV. **Compressive Sensing Imaging with a Graphene Modulator at THz Frequency in Transmission Mode**
ÖZKAN V. A., Takan T., Kakenov N., KOCABAŞ C., ALTAN H.
41st International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Copenhagen, Denmark, 25 - 30 September 2016
- V. **Electrically controlled terahertz spatial light modulators with graphene arrays**
Kakenov N., Takan T., ÖZKAN V. A., Balcı O., Polat E. O., ALTAN H., KOCABAŞ C.
IEEE MTT-S International Microwave Symposium (IMS), San-Francisco, Costa Rica, 22 - 27 May 2016
- VI. **Compressive Sensing Imaging and Image Fusion at sub THz frequency in Transmission Mode**
Menteşe Y., ÖZKAN V. A., TAKAN T., ŞAHİN A. B., ALTAN H.
NATO Advanced Research Workshop on THz Diagnostics of CBRN effects and Detection of Explosives & CBRN, 3 - 06 November 2015
- VII. **Compressive Sensing Imaging at Sub-THz Frequency in Transmission Mode**
ÖZKAN V. A., Menteşe Y., Takan T., ŞAHİN A. B., ALTAN H.
NATO Advanced Research Workshop on THz for CBRN and Explosives' Detection and Diagnostics, Cesme, Turkey, 3 - 05 November 2015, pp.49-55
- VIII. **Terahertz wave scanned imaging system for threat detection at standoff distances**
YILDIRIM İ. O., ÖZKAN V. A., İdikut F., TAKAN T., ŞAHİN A. B., ALTAN H.
PHOTONICA 2015, 24 - 28 August 2015
- IX. **Graphene enabled Electrically Controlled Terahertz Light Modulators**
Kakenov N., TAKAN T., ÖZKAN V. A., Balcı O., Polat E., ALTAN H., KOCABAŞ C.
6 International Conference on Semiconductor Mid-IR Materials and Optics SMMO2015, 8 - 11 April 2015
- X. **Compressive sensing imaging through a drywall barrier at sub-THz and THz frequencies in transmission and reflection modes**
Takan T., ÖZKAN V. A., İdikut F., Yildirim I. O., ŞAHİN A. B., ALTAN H.
Conference on Image and Signal Processing for Remote Sensing XX, Amsterdam, Netherlands, 22 - 24 September 2014, vol.9244
- XI. **Image Reconstruction and Optimization Using a Terahertz Scanned Imaging System**
Yildirim I. O., ÖZKAN V. A., İdikut F., Takan T., ŞAHİN A. B., ALTAN H.
Conference on Electro-Optical Remote Sensing, Photonic Technologies, and Applications VIII and Military Applications in Hyperspectral Imaging and High Spatial Resolution Sensing II, Amsterdam, Netherlands, 22 - 23 September 2014, vol.9250

Metrics

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Citation (WoS): 101

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