

Prof. HAKAN ALTAN

Personal Information

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Education Information

Doctorate, New Jersey Institute Of Technology, Uygulamalı Fizik, United States Of America 2000 - 2005

Undergraduate Double Major, State University Of New York State University At Stony Brook, Fizik Ve Astronomi, United States Of America 1994 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2011 - 2017

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2009 - 2011

Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, 2007 - 2009

Advising Theses

ALTAN H., Novel methods in modulation and detection of terahertz waves for imaging applications, Doctorate, T.TAKAN(Student), 2018

ALTAN H., Characterization of conductive properties of thin films in terahertz region, Post Graduate, M.AKKAYA(Student), 2017

ALTAN H., Characterization of conductive properties of thin films in terahertz region, Post Graduate, M.Akkaya(Student), 2017

ALTAN H., Terahertz time-domain spectroscopy and its application towards measurements in biology, Post Graduate, Z.ÖZER(Student), 2016

ALTAN H., Terahertz(>0.3THz) active imaging systems, Post Graduate, F.İDİKUT(Student), 2016

ALTAN H., Pulsed three dimensional THz imaging, Post Graduate, B.KARAGÖZ(Student), 2016

ALTAN H., Design and characterization of metamaterials for Terahertz region, Post Graduate, M.ALİ(Student), 2016

ALTAN H., Image reconstruction based on active scan techniques in the terahertz frequency range, Post Graduate, V.ALİ(Student), 2014

ALTAN H., Development of a picosecond pulsed mode-locked fiber laser, Post Graduate, M.EMRE(Student), 2013

ALTAN H., ESENTÜRK O., Dielectric properties of fuel oils and their ethanol mixtures investigated by terahertz time-domain spectroscopy, Post Graduate, E.ARIK(Student), 2013

ALTAN H., Fiber-integrated terahertz spectrometer driven by ultrafast ytterbium doped fiber laser, Post Graduate, H.KESKİN(Student), 2013

ALTAN H., Design and analysis of an open loop fiber-optic gyroscope, Post Graduate, M.ÖZDEMİR(Student), 2012

ALTAN H., OKUTUCU ÖZYURT H. T. , Experimental investigation of nanofluids using terahertz time domain spectroscopy (THz TDS), Post Graduate, C.KORAL(Student), 2012

ALTAN H., Development of a pulsed fiber laser for lidar system, Post Graduate, E.DÜLGERGİL(Student), 2012

ALTAN H., Imaging of metal surfaces using confocal laser scanning microscopy, Post Graduate, B.CAN(Student), 2011

ALTAN H., Imaging solar cells using terahertz waves, Post Graduate, S.KAYRA(Student), 2011

ALTAN H., Applications in broadband THz spectroscopy towards material studies, Post Graduate, Z.TÜRKŞEN(Student), 2011

ALTAN H., Material characterization with terahertz time-domain spectroscopy, Doctorate, D.KÖSEOĞLU(Student), 2010

ALTAN H., Investigation of DC generated plasmas using Terahertz time domain spectroscopy, Post Graduate, G.KARAOĞLAN(Student), 2010

ALTAN H., Development of a compact time-domain terahertz spectrometer using photoconductive antenna detection method, Post Graduate, Ü.ERÖZBEK(Student), 2009

ALTAN H., Fundamentals of a metal surface imaging system based on laser-optic principles, Post Graduate, M.BEKTAŞ(Student), 2009

ALTAN H., Development of compact terahertz time-domain terahertz spectrometer using electro-optic detection method, Post Graduate, M.MELİZ(Student), 2009

ALTAN H., Timing issues in a terawatt laser system, Post Graduate, R.PINAR(Student), 2008

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Time-Domain Characterization of the Radiation Pattern of the Terahertz Photoconductive Antennas**
Elmabruk K., Demir K., ALTAN H., Sahin A. B. , ÜNLÜ M.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.40, no.6, pp.595-605, 2019 (Journal Indexed in SCI)
- II. **Robust, Sensitive, and Inexpensive 2D Focal Plane Array Upconverting MMW Imaging Into the Visible**
Rozban D., Aharon A., Kahana L., Abramovich A., Yitzhaky Y., ALTAN H., Kopeika N. S.
IEEE PHOTONICS TECHNOLOGY LETTERS, vol.31, no.10, pp.747-750, 2019 (Journal Indexed in SCI)
- III. **An ex vivo comparative study of occlusal and proximal caries using terahertz and X-ray imaging**
Kamburoglu K., KARAGÖZ B., ALTAN H., Ozen D.
DENTOMAXILLOFACIAL RADIOLOGY, vol.48, no.2, 2019 (Journal Indexed in SCI)
- IV. **Cross-like terahertz metamaterial absorber for sensing applications**
SABAH C., MULLA B., ALTAN H., Ozyuzer L.
PRAMANA-JOURNAL OF PHYSICS, vol.91, no.2, 2018 (Journal Indexed in SCI)
- V. **Stand-Off Through-the-Wall W-Band Millimeter-Wave Imaging Using Compressive Sensing**
ALKUS U., Sahin A. B. , ALTAN H.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.15, no.7, pp.1025-1029, 2018 (Journal Indexed in SCI)
- VI. **Multilayer Graphene Broadband Terahertz Modulators with Flexible Substrate**
KAYA E., Kakenov N., ALTAN H., Kocabas C., ESENTÜRK O.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.39, no.5, pp.483-491, 2018 (Journal Indexed in SCI)
- VII. **Enhancing the image resolution in a single-pixel sub-THz imaging system based on compressed sensing**
ALKUS U., ERMEYDAN E. S. , Şahin A. B. , CANKAYA I., ALTAN H.
OPTICAL ENGINEERING, vol.57, no.4, 2018 (Journal Indexed in SCI)
- VIII. **Thermally and optically tunable sub-terahertz superconducting fishnet metamaterial**

SABAH C., MULLA B., ALTAN H., Ozyuzer L.

PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.544, pp.46-53, 2018 (Journal Indexed in SCI)

- IX. **Terahertz Bandpass Frequency Selective Surfaces on Glass Substrates Using a Wet Micromachining Process**
Ramzan M., Khan T. M. , Bolat S., NEBİOĞLU M. A. , ALTAN H., Okyay A. K. , Topalli K.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.38, no.8, pp.945-957, 2017 (Journal Indexed in SCI)
- X. **Fourcross shaped metamaterial filters fabricated from high temperature superconducting YBCO and Au thin films for terahertz waves**
Demirhan Y., Alaboz H., Nebioglu M. A. , Mulla B., AKKAYA M., ALTAN H., SABAH C., Ozyuzer L.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.30, no.7, 2017 (Journal Indexed in SCI)
- XI. **An indium tin oxide metasurface filter for terahertz applications: Design, fabrication, and characterization**
NEBİOĞLU M. A. , Takan T., ALTAN H., Demirhan Y., Alaboz H., Ozyuzer L., SABAH C.
MODERN PHYSICS LETTERS B, vol.31, no.8, 2017 (Journal Indexed in SCI)
- XII. **Single- and double-sided sensor applications of metamaterials based on square-ring and diamond resonators for terahertz region**
SHAWKY N., Taha S. A. A. , ALTAN H., SABAH C.
MODERN PHYSICS LETTERS B, vol.31, no.8, 2017 (Journal Indexed in SCI)
- XIII. **Terahertz Propagation in Tissues and Its Thickness Limitation**
KARAGÖZ B., ALTAN H.
DEEP IMAGING IN TISSUE AND BIOMEDICAL MATERIALS: USING LINEAR AND NONLINEAR OPTICAL METHODS, pp.377-411, 2017 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **Terahertz Time-Domain Study of Silver Nanoparticles Synthesized by Laser Ablation in Organic Liquid**
Koral C., ORTAÇ B., ALTAN H.
IEEE TRANSACTIONS ON TERAHERTZ SCIENCE AND TECHNOLOGY, vol.6, no.4, pp.525-531, 2016 (Journal Indexed in SCI)
- XVII. **Detection of far-infrared radiation using glow discharge detectors**
Takan T., ALASGARZADE N., Uzun-Kaymak I. U. , Sahin A. B. , ALTAN H.
OPTICAL AND QUANTUM ELECTRONICS, vol.48, no.5, 2016 (Journal Indexed in SCI)
- XVIII. **Metal mesh filters based on Ti, ITO and Cu thin films for terahertz waves**
Demirhan Y., Alaboz H., ÖZYÜZER L., Nebioglu M. A. , Takan T., ALTAN H., Sabah C.
OPTICAL AND QUANTUM ELECTRONICS, vol.48, no.2, 2016 (Journal Indexed in SCI)
- XIX. **Broadband terahertz modulators using self-gated graphene capacitors**
Kakenov N., Balci O., Polat E. O. , ALTAN H., KOCABAŞ C.
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, vol.32, no.9, pp.1861-1866, 2015 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **Low-cost bandpass filter for terahertz applications**
Takan T., Keskin H., ALTAN H.
OPTICAL AND QUANTUM ELECTRONICS, vol.47, no.4, pp.953-960, 2015 (Journal Indexed in SCI)

- XXII. **Dielectric Properties of Diesel and Gasoline by Terahertz Spectroscopy**
ARIK E., ALTAN H., ESENTÜRK O.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.35, no.9, pp.759-769, 2014 (Journal Indexed in SCI)
- XXIII. **Characterization of primary and permanent teeth using terahertz spectroscopy**
KAMBUROĞLU K., Yetimoglu N. O., ALTAN H.
DENTOMAXILLOFACIAL RADIOLOGY, vol.43, no.6, 2014 (Journal Indexed in SCI)
- XXIV. **Dielectric Properties of Ethanol and Gasoline Mixtures by Terahertz Spectroscopy and an Effective Method for Determination of Ethanol Content of Gasoline**
ARIK E., ALTAN H., ESENTÜRK O.
JOURNAL OF PHYSICAL CHEMISTRY A, vol.118, no.17, pp.3081-3089, 2014 (Journal Indexed in SCI)
- XXV. **A simple single-mode fiber loss measurement scheme in the C-band based on fiber loop-cavity ringdown spectroscopy**
Berberoglu H., ALTAN H.
OPTICS COMMUNICATIONS, vol.317, pp.29-33, 2014 (Journal Indexed in SCI)
- XXVI. **Development of a rapid-scan fiber-integrated terahertz spectrometer**
Keskin H., ALTAN H., Yavas S., İLDAY F. Ö., Eken K., ŞAHİN A. B.
OPTICAL AND QUANTUM ELECTRONICS, vol.46, no.4, pp.495-503, 2014 (Journal Indexed in SCI)
- XXVII. **Concentration-Based Measurement Studies of L-Tryptophan Using Terahertz Time-Domain Spectroscopy (THz-TDS)**
Ozer Z., Gok S., ALTAN H., Severcan F.
APPLIED SPECTROSCOPY, vol.68, no.1, pp.95-100, 2014 (Journal Indexed in SCI)
- XXVIII. **Characterization of polypropylene treated under dual-RF plasma using terahertz time-domain spectroscopy**
Akbar D., ALTAN H.
JOURNAL OF MATERIALS SCIENCE, vol.48, no.23, pp.8209-8214, 2013 (Journal Indexed in SCI)
- XXIX. **Characterization of a Glow Discharge Detector With Terahertz Time Domain Spectroscopy**
Cinar K., Bozaci H. M., ALTAN H.
IEEE SENSORS JOURNAL, vol.13, no.7, pp.2643-2647, 2013 (Journal Indexed in SCI)
- XXX. **Characteristics of HfO₂ and SiO₂ on p-type silicon wafers using terahertz spectroscopy**
Altan H., Sengupta A., Pham D., Grebel H., Federici J. F.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.22, no.5, pp.457-463, 2007 (Journal Indexed in SCI)
- XXXI. **Terahertz absorption spectrum of para and ortho water vapors at different humidities at room temperature**
Xin X., Altan H., Saint A., Matten D., Alfano R. R.
JOURNAL OF APPLIED PHYSICS, vol.100, no.9, 2006 (Journal Indexed in SCI)
- XXXII. **Terahertz (THz) spectroscopy of Freon-11 (CCl₃F, CFC-11) at room temperature**
Altan H., Yu B. L., Alfano S. A., Alfano R. R.
CHEMICAL PHYSICS LETTERS, vol.427, pp.241-245, 2006 (Journal Indexed in SCI)
- XXXIII. **Direct observation of the strength of plasmon-longitudinal optical phonon interaction in n-type GaAs**
Altan H., Xin X., Matten D., Alfano R. R.
APPLIED PHYSICS LETTERS, vol.89, no.5, 2006 (Journal Indexed in SCI)
- XXXIV. **Terahertz study of 1,3,5-trinitro-s-triazine by time-domain and Fourier transform infrared spectroscopy**
Huang F., Schulkin B., Altan H., Federici J., Gary D., Barat R., Zimdars D., Chen M., Tanner D.
APPLIED PHYSICS LETTERS, vol.85, no.23, pp.5535-5537, 2004 (Journal Indexed in SCI)
- XXXV. **Optical and electronic characteristics of single walled carbon nanotubes and silicon nanoclusters by terahertz spectroscopy**
Altan H., Huang F., Federici J., Lan A., Grebel H.
JOURNAL OF APPLIED PHYSICS, vol.96, no.11, pp.6685-6689, 2004 (Journal Indexed in SCI)
- XXXVI. **Terahertz imaging using an interferometric array**

Federici J., Gary D., Schulkin B., Huang F., Altan H., Barat R., Zimdars D.

APPLIED PHYSICS LETTERS, vol.83, no.12, pp.2477-2479, 2003 (Journal Indexed in SCI)

XXXVII. **Damped Ly alpha absorption associated with an early-type galaxy at redshift $z=0.16377$**

Lanzetta K., Wolfe A., Altan H., Barcons X., Chen H., FernandezSoto A., Meyer D., OrtizGil A., Savaglio S., Webb J., et al.

ASTRONOMICAL JOURNAL, vol.114, no.4, pp.1337-1344, 1997 (Journal Indexed in SCI)

Articles Published in Other Journals

I. **Elektriksel Ölçüm ve Terahertz Teknolojileri**

KAYRA GÜLLÜ S., Akbar D., ALTAN H.

ODTÜLÜDERGİSİ, pp.68-69, 2012 (National Non-Refereed Journal)

Books & Book Chapters

I. **Numerical Simulation of the Plasma Inside a Glow Discharge Millimeter Wave Detector**

Kuşoğlu Sarıkaya C., Akbar D., Altan H.

in: Optics, Photonics and Laser Technology 2018, Paulo RibeiroMaria Raposo, Editor, Springer-Verlag , Zürich, pp.221-238, 2019

II. **Investigating Glow Discharge Detectors as a Millimeter-Wave/Terahertz Radiation Detection Tool**

ALASGARZADE N., NEBİOĞLU M. A. , TAKAN T., UZUN KAYMAK İ. Ü. , ŞAHİN A. B. , ALTAN H.

in: THz for CBRN and Explosives Detection and Diagnosis, Mauro Pereira, Oleksiy Shulika, Editor, Springer Netherlands, Dordrecht, pp.179-187, 2017

III. **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

IV. **Terahertz Propagation in Tissues and Its Thickness Limitation**

KARAGÖZ B., ALTAN H.

in: Deep Imaging in Tissue and Biomedical Materials: Using Linear and Nonlinear Optical Methods, Lingyan Shi, Robert R. Alfano, Editor, Pan Stanford, pp.377-411, 2017

V. **Numerical Improvement of Terahertz Time-Domain Spectroscopic Measurements**

Köseoğlu D., BERBEROĞLU H., ALTAN H.

in: NATO Science for Peace and Security Series B Physics and Biophysics Terahertz and Mid Infrared Radiation, Mauro F. Pereira, Oleksiy Shulika , Editor, Springer Netherlands, pp.85-90, 2011

VI. **Plasma Sensing using THz Waves**

ALTAN H.

in: NATO Science for Peace and Security Series B Physics and Biophysics Terahertz and Mid Infrared Radiation, Mauro F. Pereira, Oleksiy Shulika , Editor, Springer Netherlands, pp.1-8, 2011

VII. **Influence of the Spot Size of the Probe Beam on the Detected THz Power Using Electro-Optic Detection Method**

Metbulut M., GÜLLÜ H. H. , ALTAN H.

in: NATO Science for Peace and Security Series B Physics and Biophysics Terahertz and Mid Infrared Radiation, Mauro F. Pereira, Oleksiy Shulika , Editor, Springer Netherlands, pp.107-111, 2011

VIII. **Characterization of Air-Nitrogen-Argon DC Glow Discharge Plasma with THz Time Domain Spectroscopy**

Karaoğlan G., TOSUN Z., Demiral A., ALTAN H.

in: NATO Science for Peace and Security Series B Physics and Biophysics Terahertz and Mid Infrared Radiation, Mauro F. Pereira, Oleksiy Shulika , Editor, Springer Netherlands, pp.73-77, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Analysis of the Interaction between THz Waves and Low Cost Plasma Detectors for the Development of Stand-Off Imaging Systems**
Pavia J. P. , Ribeiro M., Kuşoğlu Sarıkaya C., ALTAN H., AKBAR D., Souto N.
2019 IEEE MTT-S International Microwave and RF Conference (IMARC), Mumbai, India, 13 - 15 December 2019
- II. **The Effect of Phosphor Coating on THz/mm wave-Plasma Interaction in Glow Discharge Detector**
Kuşoğlu Sarıkaya C., AKBAR D., ALTAN H.
2019 44th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Paris, France, 1 - 06 September 2019
- III. **Modulation Behaviors, Conductivities, and Carrier Dynamics of Single and Multilayer Graphenes**
KAYA E., Kakenov N., KOCABAŞ C., ALTAN H., ESENTÜRK O.
2019 44th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Paris, France, 1 - 06 September 2019
- IV. **Applications of various sensors for detecting THz waves in adverse conditions**
Aytac B., Sahin A. B. , Altan H.
Millimetre Wave and Terahertz Sensors and Technology XII 2019, Strasbourg, France, 9 - 10 September 2019, vol.11164
- V. **Understanding the Effect of THz/mm wave - Plasma Interaction on the Brightness of Glow Discharge Detectors**
Kusoglu-Sarikaya C., Akbar D., ALTAN H.
Conference on Millimetre Wave and Terahertz Sensors and Technology XII, Strasbourg, France, 9 - 10 September 2019, vol.11164
- VI. **Design of a Novel THz Sensor for Structural Health Monitoring Applications**
Pavia J. P. , Ribeiro M. A. , Sarıkaya C. K. , Akbar D., Altan H., Souto N.
IEEE 20th Wireless and Microwave Technology Conference (WAMICON), Florida, United States Of America, 8 - 09 April 2019
- VII. **Development of Stand-off Imaging Systems Using Low Cost Plasma Detectors**
ALTAN H.
Advanced Research Workshop: THz MIR and NIR Technologies for Protection of Critical Infrastructures against Explosives and CBRN, 5 - 09 November 2018
- VIII. **Understanding the detection mechanism of mm-wave radiation in glow discharge detectors**
Sarıkaya C. K. , Akbar D., Ribeiro M. A. , ALTAN H.
Conference on Millimetre Wave and Terahertz Sensors and Technology XI, Berlin, Germany, 10 - 11 September 2018, vol.10800
- IX. **T-Ray: active THz imaging autonomous biometric secured access control and tracking gate system**
YILDIRIM İ. S. , Telli A., Colak T., Guray C., Demirsoy B., Osmanoglu T., Unal I., Beltekin G., ŞAHİN A. B. , ALTAN H.
Conference on Millimetre Wave and Terahertz Sensors and Technology XI, Berlin, Germany, 10 - 11 September 2018, vol.10800
- X. **Radiation Pattern Characterization of Terahertz Photoconductive Antennas Using Time-Domain Spectroscopy System**
Elmabruk K., Demir K., ŞAHİN A. B. , ALTAN H., ÜNLÜ M.
IEEE-Antennas-and-Propagation-Society International Symposium on Antennas and Propagation / USNC/URSI National Radio Science Meeting, Massachusetts, United States Of America, 8 - 13 July 2018, pp.813-814
- XI. **Sıkıştırılmış Algılama ile Milimetredalga Görüntüleme: Modülasyon Frekansı ve Veri Tipi Etkileri**
ŞENGÜN ERMEYDAN E., Mete M., ŞAHİN A. B. , ALTAN H., ÇANKAYA İ.
26. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İzmir, Turkey, 2 - 05 May 2018
- XII. **Understanding the Mechanisms Behind MM-Wave Detection using Gas Discharge Lamps**
ALTAN H.
8th International Workshop on Terahertz Technology and Applications, 20 - 21 March 2018
- XIII. **Electrically Tunable Devices For MM-Wave / TerahertzApplications: Design, Fabrication And**

Characterization

ALTAN H.

10TH ASIAN SYMPOSIUM ON INTENSE LASER SCIENCE, 10 - 13 March 2018

- XIV. **Parallel 1d3v Particle in Cell/Monte Carlo Collision (PIC/MCC) Simulation of a Glow Discharge Millimeter Wave Detector**
Kuşoğlu Sarıkaya C., Akbar D., ALTAN H.
Proceedings of the 6th International Conference on Photonics, Optics and Laser Technology, Funchal, Madeira, Portugal, 25 - 27 January 2018
- XV. **Modification of Tunable THz Filters Fabricated from Vanadium Dioxide Thin Films**
DEMİRHAN Y., yuce h., Akkaya M., ALTAN H., ÖZYÜZER L., AYGÜN ÖZYÜZER G.
2017 ICG Annual Meeting 32nd Şişecam Glass Symposium, 22 - 25 October 2017
- XVI. **A study on neon indicator lamps for the purpose of THz-mm wave detection**
Alasgarzade N., ALTAN H., MANSUROĞLU D., ŞAHİN A. B. , UZUN KAYMAK İ. Ü.
19. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 29 September 2017
- XVII. **Investigation of Radiant Millimeter Wave/Terahertz Radiation from Low Infrared Signature Targets**
Aytac B., Alkus U., Sivasligil M., Sahin A. B. , ALTAN H.
Conference on Millimetre Wave and Terahertz Sensors and Technology X, Warszawa, Poland, 11 September 2017, vol.10439
- XVIII. **Super-Resolution Image Reconstruction Applied to an Active Millimeter Wave Imaging System based on Compressive Sensing**
Alkus U., Ermeydan E. S. , ŞAHİN A. B. , ÇANKAYA İ., ALTAN H.
Conference on Millimetre Wave and Terahertz Sensors and Technology X, Warszawa, Poland, 11 September 2017, vol.10439
- XIX. **Terahertz pulsed imaging for the monitoring of dental caries: a comparison with X-ray imaging**
KARAGÖZ B., KAMBUROĞLU K., ALTAN H.
Conference on Medical Laser Applications and Laser-Tissue Interactions VIII, Munich, Germany, 25 - 29 June 2017, vol.10417
- XX. **Effects of THz Transmission on the Narrow Gap DC Glow Discharge Plasmas**
ALASGARZAGE N., ALTAN H., MANSUROĞLU D., ŞAHİN A. B. , UZUN KAYMAK İ. Ü.
44th International Conference on Plasma Science, ICOPS 2017, 21 - 25 May 2017
- XXI. **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
- XXII. **Terahertz Transmission Through Patterened Vanadium Oxide Thin Films on Dielectric Substrates**
AKKAYA M., Demirhan Y., Yuce H., Aygun G., Ozyuzer L., SABAH C., ALTAN H.
5th International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS), Porto, Portugal, 27 February - 01 March 2017, pp.334-339
- XXIII. **Tunable Metamaterial Filters Fabricated from High Temperature Superconductors**
DEMİRHAN Y., ALABOZ H., Nebioglu M. A. , Mulla B., ALTAN H., SABAH C., ÖZYÜZER L.
FRONTIERS IN THEORETICAL AND APPLIED PHYSICS, 22 - 25 February 2017
- XXIV. **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
- XXV. **Transmission and detection of terahertz radiation in a weakly ionized plasma (Conference Presentation)**
TAKAN T., Alasgarzade N., YILDIRIM İ. O. , UZUN KAYMAK İ. Ü. , ŞAHİN A. B. , ALTAN H.
SPIE Security Defence, Edinburgh, United Kingdom, 26 - 29 September 2016
- XXVI. **Interaction of a Narrow Gap Glow Discharge Plasma with Far Infrared Radiation**
Alasgarzade N., Takan T., Mansuroglu D., ŞAHİN A. B. , Uzun-Kaymak I. U. , ALTAN H.
41st International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Copenhagen,

Denmark, 25 - 30 September 2016

- XXVII. **Broadband THz Modulators Based on Multilayer Graphene on PVC**
KAYA E., Kakenov N., Kocabas C., ALTAN H., ESENTÜRK O.
41st International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Copenhagen, Denmark, 25 - 30 September 2016
- XXVIII. **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
- XXIX. **Metasurface Filters for Terahertz Applications Design Fabrication and Characterization**
ALTAN H., nebioğlu m. a. , akkaya m., DEMİRHAN Y., ALABOZ H., ÖZYÜZER L., SABAH C.
Science and Applications of Thin Films, 19 - 23 September 2016
- XXX. **Stand off MM Wave Imaging using Arrays Based on Glow Discharge Lamps**
ALTAN H., ŞAHİN A. B. , Kopeika N., Abramovich A., Ytzhaky Y.
11TH FUTURE SECURITY SECURITY RESEARCH CONFERENCE, 13 - 14 September 2016
- XXXI. **Exploiting Novel Media for Terahertz Wave Photonics**
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