

# Prof. OKAN ESENTÜRK

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: A-7037-2018

ScopusID: 6602511151

Yoksis Researcher ID: 167649

## Education Information

Doctorate, University of Maryland, College Park, Fen Bilimleri, Kimya, United States Of America 1999 - 2004

Postgraduate, Middle East Technical University, Fen Bilimleri, Kimya, Turkey 1996 - 1998

Undergraduate, Middle East Technical University, Fen Edebiyat, Kimya, Turkey 1992 - 1996

## Dissertations

Doctorate, Molecular structure and surface organization: a study of liquid/vapor interfaces using newly developed sum frequency methods, University Of Maryland, College Park, Fen Bilimleri, Kimya, 2004

Postgraduate, 2- and 3-D Monte Carlo polymerization of five-membered rings, H. Önder Pamuk ve Ersin Yurtsever, Middle East Technical University, Fen Bilimleri, Kimya, 1998

## Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Physical Chemistry, Chemistry, Analytical Chemistry, Infrared Spectroscopy, Raman Spectroscopy, Spectroscopical Methods, Physical Chemistry, Spectroscopy, Natural Sciences

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2018 - Continues  
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2015 - 2018

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2009 - 2015

Other, University of Maryland, College Park, Fen Edebiyat, Kimya, 2005 - 2009

Research Assistant, University of Maryland, College Park, Fen Edebiyat, Kimya, 1999 - 2004

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1996 - 1999

## Academic and Administrative Experience

Rectorate Commissioner, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2015 - 2022

Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2015 - 2018

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2017 - 2017

## Courses

PHYSICAL CHEMISTRY II, Associate Degree, 2019 - 2020, 2018 - 2019, 2014 - 2015, 2013 - 2014, 2011 - 2012

MOLECULAR SPECTROSCOPY, Postgraduate, 2018 - 2019, 2016 - 2017

PHYSICAL CHEMISTRY I, Undergraduate, 2017 - 2018, 2016 - 2017, 2012 - 2013, 2011 - 2012, 2010 - 2011

MATHEMATICS FOR CHEMISTS, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

## Advising Theses

Esentürk O., Construction of Z-Scan setup and investigation of nonlinear optical properties of organic adducts, Postgraduate, T.ORÇUN(Student), 2023

Esentürk O., INVESTIGATION OF EFFECTIVE MEDIUM ABSORBERS FOR POSSIBLE SENSING APPLICATIONS IN THE SUB-1 THZ REGION, Postgraduate, O.Demirörs(Student), 2022

Esentürk O., INVESTIGATION OF TiAIV AS ABSORBER AND WO3-VXOY AS ACTIVE MATERIAL FOR TERAHERTZ MICROBOLOMETERS, Postgraduate, B.Atik(Student), 2022

Esentürk O., Yılmaz A., Synthesis and investigation of optical properties of Ce<sup>3+</sup>, Dy<sup>3+</sup>, Eu<sup>3+</sup> single doped, Ce<sup>3+</sup>/Dy<sup>3+</sup> codoped, Ce<sup>3+</sup>/Dy<sup>3+</sup>/Eu<sup>3+</sup> triple doped and Yb<sup>3+</sup> single doped, Ce<sup>3+</sup>/Tb<sup>3+</sup>/Yb<sup>3+</sup> triple doped GdBO<sub>3</sub>, Postgraduate, O.TANEROĞLU(Student), 2020

ESENTÜRK O., Wine quality testing by using terahertz spectroscopy, Postgraduate, G.YİYEN(Student), 2018

Esentürk O., Hacivelioglu F., Flexible polyurethane rebond foam prepolymer sythesis with low polymeric diisocyanate content, Postgraduate, C.EFE(Student), 2018

ESENTÜRK O., Construction of terahertz spectrometers and their use in characterization of conductivities and modulation behaviors of graphene layers /, Doctorate, E.KAYA(Student), 2017

ESENTÜRK O., Investigation of properties of diesel water mixtures with and without emulsifier by terahertz spectroscopy, Postgraduate, Z.ÇINAR(Student), 2017

ESENTÜRK O., YILMAZ A., Tunable optical properties of Dy<sup>3+</sup>; Eu<sup>3+</sup> DOPED, Dy<sup>3+</sup>/Bi<sup>3+</sup>; Dy<sup>3+</sup>/Ce<sup>3+</sup>; Dy<sup>3+</sup>/Eu<sup>3+</sup>; Tb<sup>3+</sup>/Ce<sup>3+</sup> codoped LaBO<sub>3</sub>, Postgraduate, Ö.CEREN(Student), 2017

ESENTÜRK O., Time domain terahertz spectroscopy: construction of the setup and application in analysis of active pharmaceutical ingredients, Postgraduate, Y.SAMET(Student), 2016

ESENTÜRK O., YILMAZ A., Microwave assisted solid state synthesis of rare earth ions doped LaBO<sub>3</sub>, YBO<sub>3</sub> and GdBO<sub>3</sub>, their characterizations and investigations of luminescence properties, Postgraduate, M.SEVEROĞLU(Student), 2016

YILMAZ A., ESENTÜRK O., Microwave assisted solid state synthesis of rare earth ions doped LaBO<sub>3</sub>, YBO<sub>3</sub> and GdBO<sub>3</sub>, their characterizations and investigations of luminescence properties, Postgraduate, M.Severoğlu(Student), 2016

ESENTÜRK O., Fiber halka döngü sönümlenme spektroskopisi ile gaz tayini, Postgraduate, F.HANIFEHPOURSARDROUD(Student), 2016

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

ESENTÜRK O., DANIŞMAN M. F., FIBER LOOP RING DOWN SPECTROSCOPY FOR TRACE CHEMICAL DETECTION, Postgraduate, B.CENGİZ(Student), 2013

ESENTÜRK O., YILMAZ A., Microwave assisted synthesis of rare earth ions doped lanthanum orthoborate, their

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Design and synthesis of heterocycle-based push-pull NLOphores: A comprehensive study of their linear and non-linear optical properties**  
Karagöllü B., Şengöz T. O., Kayaş H., ERDEN K., ŞAHİN E., ESENTÜRK O., DENGİZ Ç.  
Dyes and Pigments, vol.232, 2025 (SCI-Expanded)
- II. **Coating effects of a strain sensor on durability and sensitivity using the fiber loop ringdown spectroscopy technique**  
KAYA B. M., ESENTÜRK O., AŞICI C., Sarac U., DINDİŞ G., BAYKUL M. C.  
Physica Scripta, vol.99, no.5, 2024 (SCI-Expanded)
- III. **Facile application of terahertz spectroscopy in UV-coated and phase change material loaded MPS**  
Aytan E., AYTEKİN Y. S., Akbal Aytan T., ESENTÜRK O., KAHRAMAN M. V.  
POLYMER BULLETIN, vol.81, no.3, pp.2447-2464, 2024 (SCI-Expanded)
- IV. **UV-curable Schiff base-containing polymeric adsorbent for selective and efficient removal of Au(III) from aqueous solutions**  
Aydın Urucu O., Beyler Çiğil A., Zülfikaroğlu A., Esentürk O.  
Materials Today Communications, vol.37, 2023 (SCI-Expanded)
- V. **Ground-based Hyperspectral Image Surveillance System for Explosive Detection: Methods, Experiments, and Comparisons**  
Kütük M., Geneci I., Özdemir O. B., Koz A., Esentürk O., Cetin Y. Y., Alatan A. A.  
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol.16, pp.8747-8763, 2023 (SCI-Expanded)
- VI. **Tuning structural, electrical, and THz optical properties of VxOy films with W-doping**  
Atik B., Dirican E., Demirors O., Altan H., Esenturk O., Yildirim M., Akin T.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.903, 2022 (SCI-Expanded)
- VII. **Study of strain measurement by fiber optic sensors with a sensitive fiber loop ringdown spectrometer**  
Kaya M., Esentürk O.  
OPTICAL FIBER TECHNOLOGY, vol.54, 2020 (SCI-Expanded)
- VIII. **Highly sensitive fiber optic pressure sensors for wind turbine applications**  
KAYA M., ESENTÜRK O.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.5, pp.2789-2796, 2020 (SCI-Expanded)
- IX. **Tunable optical properties and DFT calculations of RE3+ codoped LaBO3 phosphors**  
Hızal Abacı Ö. C., Mete E., Esentürk O., Yılmaz A.  
OPTICAL MATERIALS, vol.98, 2019 (SCI-Expanded)
- X. **Fabrication and characterization of photocrosslinked phase change materials by using conventional and terahertz spectroscopy techniques**  
Aytan E., AYTEKİN Y. S., ESENTÜRK O., KAHRAMAN M. V.  
Journal of Energy Storage, vol.26, 2019 (SCI-Expanded)
- XI. **Discrimination of chemicals via refractive index by EF-FLRD**  
Yolalmaz A., Danışman M. F., Esentürk O.  
APPLIED PHYSICS B-LASERS AND OPTICS, vol.125, 2019 (SCI-Expanded)
- XII. **Optical and vibrational properties of nickel integrated germanium Zintl ion clusters**  
Ogun E., Esentürk O., Nalbant Esentürk E.  
INORGANICA CHIMICA ACTA, vol.490, pp.16-23, 2019 (SCI-Expanded)
- XIII. **Low dose dimethyl sulfoxide driven gross molecular changes have the potential to interfere with various cellular processes**

- Tuncer S., Gurbanov R., Sheraj I., Solel E., Esentürk O., Banerjee S.  
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- XIV. **Optical properties of Meloxicam in the far-infrared spectral region**  
AYTEKİN Y. S., Kokturk M., Zaczek A., Korter T. M., Heilweil E. J., ESENTÜRK O.  
CHEMICAL PHYSICS, vol.512, pp.36-43, 2018 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **Intracavity gas detection with fiber loop ring down spectroscopy**  
Yolalmaz A., Sadroud F. H., Danişman M. F., Esentürk O.  
OPTICS COMMUNICATIONS, vol.396, pp.141-145, 2017 (SCI-Expanded)
- XVII. **Optical and Vibrational Properties of [Pt@Pb-12](2-), [Ni@Pb-12](2-), and [Ni@Pb-10](2-) Zintl Ion Clusters**  
Çetin A., Esentürk O., Esenturk E.  
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, pp.2413-2421, 2017 (SCI-Expanded)
- XVIII. **Hot photocarrier dynamics in organic solar cells**  
Lane P. A., Cunningham P. D., Melinger J. S., Esenturk O., Heilweil E. J.  
NATURE COMMUNICATIONS, vol.6, 2015 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **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 (SCI-Expanded)
- XXI. **Microwave-assisted synthesis of Eu<sup>3+</sup> doped lanthanum orthoborates, their characterizations and luminescent properties**  
BADAN C., ESENTÜRK O., YILMAZ A.  
SOLID STATE SCIENCES, vol.14, pp.1710-1716, 2012 (SCI-Expanded)
- XXII. **Photoexcitation Dynamics in Films of C-60 and Zn Phthalocyanine with a Layered Nanostructure**  
Lane P. A., Cunningham P. D., Melinger J. S., Kushto G. P., Esenturk O., Heilweil E. J.  
PHYSICAL REVIEW LETTERS, vol.108, no.7, 2012 (SCI-Expanded)
- XXIII. **Ultrafast photoinduced carrier dynamics of organic semiconductors measured by Time-Resolved Terahertz Spectroscopy**  
Esenturk O., Melinger J. S., Lane P. A., Heilweil E. J.  
ACS Symposium Series, vol.1039, pp.241-254, 2010 (SCI-Expanded)
- XXIV. **Relative Photon-to-Carrier Efficiencies of Alternating Nanolayers of Zinc Phthalocyanine and C-60 Films Assessed by Time-Resolved Terahertz Spectroscopy**  
Esenturk O., Melinger J. S., Lane P. A., Heilweil E. J.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.113, no.43, pp.18842-18850, 2009 (SCI-Expanded)
- XXV. **Conjugation effects on carrier mobilities of polythiophenes probed by time-resolved terahertz spectroscopy**  
Esenturk O., Kline R. J., Deongchamp D. M., Heilweil E. J.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.112, no.29, pp.10587-10590, 2008 (SCI-Expanded)
- XXVI. **Terahertz mobility measurements on poly-3-hexylthiophene films: Device comparison, molecular weight, and film processing effects**  
Esenturk O., Melinger J. S., Heilweil E. J.  
JOURNAL OF APPLIED PHYSICS, vol.103, no.2, 2008 (SCI-Expanded)
- XXVII. **Applications of terahertz spectroscopy in biosystems**  
Plusquellic D. F., SİEGRİST K., Heilweil E. J., Esenturk O.  
CHEMPHYSICHEM, vol.8, no.17, pp.2412-2431, 2007 (SCI-Expanded)

- XXVIII. **Terahertz spectroscopy of dicyanobenzenes: Anomalous absorption intensities and spectral calculations**  
Esenturk O., EVANS A., Heilweil E. J.  
CHEMICAL PHYSICS LETTERS, vol.442, pp.71-77, 2007 (SCI-Expanded)
- XXIX. **Balancing hydrophobic and hydrophilic forces at the Water/Vapor interface: Surface structure of soluble alcohol monolayers**  
Can S. Z., Mago D. D., Esenturk O., Walker R. A.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.111, no.25, pp.8739-8748, 2007 (SCI-Expanded)
- XXX. **Surface vibrational structure at alkane liquid/vapor interfaces**  
Esenturk O., Walker R. A.  
JOURNAL OF CHEMICAL PHYSICS, vol.125, no.17, 2006 (SCI-Expanded)
- XXXI. **Surface structure at hexadecane and halo-hexadecane liquid/vapor interfaces**  
Esenturk O., WALKER R. A.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.108, no.30, pp.10631-10635, 2004 (SCI-Expanded)
- XXXII. **Indoline: a versatile probe of specific and non-specific solvation forces**  
Esenturk O., WALKER R.  
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.5, no.10, pp.2020-2026, 2003 (SCI-Expanded)
- XXXIII. **Reduced polarity in protic solvents near hydrophobic solid surfaces**  
ZHANG X., Esenturk O., WALKER R.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.123, no.43, pp.10768-10769, 2001 (SCI-Expanded)
- XXXIV. **Structural studies of polypyrroles - II. A Monte Carlo growth approach to the branch formation**  
YURTSEVER E., Esenturk O., PAMUK H., YURTSEVER M.  
SYNTHETIC METALS, vol.98, no.3, pp.229-236, 1999 (SCI-Expanded)
- XXXV. **Magnetic properties of multiband  $U=\infty$  Hubbard model on anisotropic triangular and rectangular lattice strips**  
CHERANOVSKII V., Esenturk O., PAMUK H.  
PHYSICAL REVIEW B, vol.58, no.18, pp.12260-12266, 1998 (SCI-Expanded)
- XXXVI. **A two-dimensional Monte Carlo polymerization of 5-membered rings**  
Esenturk O., PAMUK H., YURTSEVER E.  
TURKISH JOURNAL OF CHEMISTRY, vol.21, no.4, pp.327-331, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Application of fiber loop ringdown spectroscopy technique for a new approach to beta-amyloid monitoring for Alzheimer Disease's early detection**  
KAYA B. M., ÖZ S., ESENTÜRK O.  
Biomedical Physics and Engineering Express, vol.10, no.3, 2024 (ESCI)
- II. **Analysis of active pharmaceutical ingredients by terahertz spectroscopy**  
AYTEKİN Y. S., KÖKTÜRK M., ESENTÜRK O.  
NATO Science for Peace and Security Series B: Physics and Biophysics, pp.69-73, 2017 (Scopus)

## Books & Book Chapters

- I. **Ultrafast Photoinduced Carrier Dynamics of Organic Semiconductors Measured by Time-Resolved Terahertz Spectroscopy**  
ESENTÜRK O., Melinger J. S., Lane P. A., Heilweil E. J.  
in: Organic Thin Films for Photonic Applications, Warren N. Herman, Steven R. Flom, Stephen H. Foulger, Editor, ACS, pp.241-254, 2010

## Refereed Congress / Symposium Publications in Proceedings

- I. **Broadband THz Absorber Layers for Microbolometer Applications**  
Atik B., Demirörs O., Yıldırım M., ALTAN H., ESENTÜRK O.  
International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz, 28 August 2022
- II. **PREPARATION OF CONDUCTIVE AND FLAME-RETARDANT PU/GO/DOPO PRINTED FILMS**  
Çiğil A. B., BİRTANE H., ESENTÜRK O.  
11th International symposium on Graphic Engineering and Design, GRID 2022, Novi-Sad, Serbia, 3 - 05 November 2022, pp.131-140
- III. **Optimization of a microbolometer pixel for operation in the sub-1 THz region**  
Demirörs O., Atik B., Dirican E., ALTAN H., ESENTÜRK O., Yıldırım M., AKIN T.  
Terahertz Emitters, Receivers, and Applications XII 2021, California, United States Of America, 1 - 05 August 2021, vol.11827
- IV. **Investigation of doped and undoped VOx films for terahertz microbolometer applications**  
Atik B., Dirican E., Demirörs O., ALTAN H., ESENTÜRK O., Yıldırım M., AKIN T.  
Terahertz Emitters, Receivers, and Applications XII 2021, California, United States Of America, 1 - 05 August 2021, vol.11827
- V. **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
- VI. **Optical Properties of Active Pharmaceutical Ingredients in Terahertz Region**  
AYTEKİN Y. S., KOKTURK M., ADAM Z., KORTER T., HEILWEIL E., ESENTÜRK O.  
2019 44th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Paris, France, 1 - 06 September 2019
- VII. **RÜZGAR TÜRBİNLERİ İÇİN FİBER HALKA BASINÇ SENSÖRÜ UYGULAMALARI**  
KAYA M., ESENTÜRK O.  
21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 06 September 2019
- VIII. **Fiber Loop Ringdown Pressure Sensors for Wind Turbines**  
Kaya M., Esentürk O.  
21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019
- IX. **LaB03: Ce3+ /Tb3+ Fosforlarının Optik Özelliklerinin İncelenmesi**  
Abacı Ö. C., Esentürk O., Yılmaz A.  
Anorganik Kimya Kongresi, Çorum, Turkey, 19 - 22 June 2019, pp.33
- X. **Organik yarı iletkenlerde yük dinamiğinin zaman alanlı Terahertz spektroskopisi ile incelenmesi**  
Esentürk O.  
20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018
- XI. **Tekstil Sektörüne Yönelik H12MDI ve IPDI Bazlı Solventsiz Poliüretan Dispersiyonu Sentezi ve Karakterizasyonu**  
Kılıç C., Esentürk O., Haciveliöğlü F.  
VII. Ulusal Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018, pp.1
- XII. **Flexible polyurethane prepolymer synthesis with lower isocyanate content for recycle foams**  
Kılıç C. E., ESENTÜRK O., HACİVELİÖĞLU F.  
Wood adhesives, Atlanta, United States Of America, 25 - 27 October 2017
- XIII. **Geri Dönüşüm Süngerleri İçin Poliöl ve Poliüretan Bazlı Polimerik Bağlayıcı Sentezi**  
Kılıç C. E., ESENTÜRK O., HACİVELİÖĞLU F.  
29. Ukusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017, pp.76
- XIV. **CHEMICAL DETECTION WITH FIBER LOOP RING DOWN SPECTROSCOPY**  
Yolalmaz A., Hanifehpour F., ESENTÜRK O., DANIŞMAN M. F.  
European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability Sixth Scientific Meeting, 5 - 07 October 2016

- XV. **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
- XVI. **Ce3 Dy3 and Eu3 Dy3 co doped Lanthanum Orthoborate Synthesis Characterizations and Luminescence Enhancements**  
YILMAZ A., ESENTÜRK O., Hızal Ö. C.  
Lumidoz 10, 5 - 07 September 2016
- XVII. **Probing Charge Transfer and Hot Carrier Dynamics in Organic Solar Cells with Terahertz Spectroscopy**  
CUNNINGHAM P. D., LANE P. A., MELINGER J. S., ESENTÜRK O., HEILWEIL E. J.  
Conference on Terahertz Physics, Devices, and Systems X - Advanced Applications in Industry and Defense, Maryland, United States Of America, 17 - 19 April 2016, vol.9856
- XVIII. **Fiber loop ring down spectrometer optical based sensor for trace chemical detection**  
Yolalmaz A., ESENTÜRK O., DANIŞMAN M. F., Hanifehpour F.  
14th IUVSTA School, 11 - 15 April 2016
- XIX. **Microwave Assisted Synthesis of Dy3 Sm3 and Tb3 Ion Doped Lanthanum Orthoborate Their Characterizations and Investigations of Luminescence Properties**  
YILMAZ A., ESENTÜRK O., Metehan s.  
14th International Union of Materials Research Societies-International Conference on Advanced Materials (IUMRS-ICAM 2015), Jeju, South Korea, 25 - 29 October 2015
- XX. **Self Assembly Synthesis of Terbium Tb3 Doped Lanthanum Orthoborate Nano Phosphors and Their Photoluminescence Properties**  
YILMAZ A., ESENTÜRK O., Saeed Q., Uner D.  
11th Nano science and nano technology conference (NanoTr), Turkiye, Ankara, 22-25 June 2015., 22 - 25 June 2015
- XXI. **A new method for alcohol content determination of fuel oils by terahertz spectroscopy**  
Arik E., KORAL C., ALTAN H., ESENTÜRK O.  
2013 38th International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2013, Mainz, Germany, 1 - 06 September 2013
- XXII. **Carrier dynamics of films of zinc phthalocyanine and C60 measured by terahertz time domain spectroscopy**  
LANE P., ESENTÜRK O., MELİNGER J. S., HEİLWEİL E. J.  
2010Laser Science, LS 2010; Rochester, NY; United States; 24 October 2010 through 28 October 2010; Code 103089, 24 - 28 October 2010
- XXIII. **PHOTO-CARRIER DYNAMICS OF BLENDED AND MULTI-LAYERED FILMS OF ZINC PHTHALOCYANINE AND C-60 MEASURED BY TIME-RESOLVED TERAHERTZ SPECTROSCOPY**  
Melinger J. S., Lane P., Esenturk O., Heilweil E.  
35th IEEE Photovoltaic Specialists Conference, Hawaii, United States Of America, 20 - 25 June 2010, pp.1616-1620
- XXIV. **Ultrafast Terahertz Spectroscopy for Measuring Carrier Dynamics in Nanoscale Photovoltaic Materials**  
Esenturk O., LANE P. A., MELİNGER J. S., HEİLWEİL E. J.  
Conference on Ultrafast Phenomena in Semiconductors and Nanostructure Materials XIV, San-Francisco, Costa Rica, 24 - 27 January 2010, vol.7600
- XXV. **Ultrafast Photoinduced Carrier Dynamics of Organic Semiconductors Measured by Time-resolved Terahertz Spectroscopy**  
Esenturk O., Melinger J. S., Lane P. A., Heilweil E. J.  
236th National Meeting of the American-Chemical-Society, Pennsylvania, United States Of America, 17 - 21 August 2008, vol.1039, pp.241-254
- XXVI. **Carrier dynamics of films of zinc phthalocyanine and C60 measured by terahertz time domain spectroscopy**

- Lane P. A., ESENTÜRK O., Melinger J. S., Heilweil E. J.  
Laser Science, LS 2010, Rochester, NY, United States Of America, 24 - 28 October 2010
- XXVII. **Carrier dynamics of composite and nanolayered films of zinc phthalocyanine and C-60 measured by time-resolved terahertz spectroscopy**  
Lane P. A., Melinger J. S., Esenturk O., Heilweil E. J.  
Conference on Organic Photovoltaics X, California, United States Of America, 3 - 06 August 2009, vol.7416
- XXVIII. **Terahertz spectroscopy of explosives and simulants - RDX, PETN, sugar and L-tartaric acid**  
Konek C., WILKINSON J., Esenturk O., HEILWEIL E., KEMP M.  
Terahertz Physics, Devices, and Systems III: Advanced Applications in Industry and Defense, Orlando, FL, United States Of America, 14 - 15 April 2009, vol.7311
- XXIX. **POLY 637-Ultrafast carrier dynamics of blended and layered zinc-phthalocyanine/C60 films measured by time-resolved terahertz spectroscopy**  
Esenturk O., Heilweil E. J., Melinger J. S., Lane P. A.  
236th National Meeting of the American-Chemical-Society, Pennsylvania, United States Of America, 17 - 21 August 2008, vol.236
- XXX. **Photon-to-carrier efficiencies of nanostructured zinc-phthalocyanine/fullerene thin films assessed by time-resolved terahertz spectroscopy**  
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## Scientific Consultations

ODTÜ MEMS Merkezi, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey, 2018 - Continues

## Scientific Research / Working Group Memberships

## **Metrics**

Publication: 82

Citation (WoS): 901

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## **Congress and Symposium Activities**

44. International Conference on Infrared, Millimeter and Terahertz Waves, Working Group, Paris, France, 2019

Fotonik 2018, Working Group, Ankara, Turkey, 2018

## **Non Academic Experience**

NIST

Business Organization (private), Kt Consulting Inc.

KT Consulting Inc