

Assoc. Prof. NECATİ KAYA

Personal Information

Office Phone: [+90 286 218 0018](tel:+902862180018) Extension: 21041

Email: necatikaya@comu.edu.tr

Web: <https://avesis.comu.edu.tr/necatikaya>

Address: Çanakkale Onsekiz Mart Üniversitesi Mühendislik Fakültesi Terzioğlu Kampüsü 17020 Çanakkale - TÜRKİYE

Education Information

Post Doctorate, Texas A&M University, Science Program And Petroleum Engineering Program, Physics, Petroleum Engineering, United States Of America 2015 - 2017

Doctorate, Texas A&M University, College Of Science, Department Of Physics&Astronomy, United States Of America 2010 - 2014

Post Graduate, Karadeniz Technical University, Fen Bilimleri, Fizik, Turkey 2003 - 2006

Under Graduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Fizik, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, Velosi gas safety, Texas A&M University, 2011

Education Management and Planning, Energy workshop/field trip, Texas A&M University & State Energy Conservation Office, 2010

Education Management and Planning, Laser Safety Training, Texas A&M University, 2010

Foreign Language, IECP-Intensive English Communication Program, Penn State University, 2009

Dissertations

Doctorate, FILAMENTATION AND WHITE LIGHT GENERATION WITH SPATIALLY AND TEMPORALLY CONTROLLED FEMTOSECOND RADIATION, Texas A&M University, Science, Physics&Astronomy, 2014

Post Graduate, 69=Z=76 ATOM NUMARALI ELEMENTLERİN K TABAKASI SOĞURMA-SIÇRAMA FAKTÖRLERİNİN TAYİNİ, Karadeniz Technical University, Fen Bilimleri, Fizik, 2006

Research Areas

Electrical and Electronics Engineering, Energy, Renewable energy, Physics, Atomic and Molecular Physics, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Molecular Properties and Interactions with Photon, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Canakkale Onsekiz Mart University, Çanakkale Uygulamalı Bilimler Fakültesi, Enerji Yönetimi, 2018 - Continues
Associate Professor, Giresun University, Fen Edebiyat Fakültesi, Fizik, 2017 - 2018
Assistant Professor, Giresun University, Fen Edebiyat Fakültesi, Fizik, 2016 - 2017
Assistant Professor, Texas A&M University, College Of Science, Department Of Physics&Astronomy, 2015 - 2017
Research Assistant, Texas A&M University, College Of Science, Physics&Astronomy, 2010 - 2014
Research Assistant, Karadeniz Technical University, Fen Bilimleri Enst, Fizik, 2005 - 2008

Academic and Administrative Experience

Canakkale Onsekiz Mart University, Çanakkale Uygulamalı Bilimler Yo, Enerji Yönetimi, 2018 - Continues
Canakkale Onsekiz Mart University, Çanakkale Uygulamalı Bilimler Yo, Enerji Yönetimi, 2018 - Continues

Courses

İleri Optoelektronik ve Fotonik Teknolojileri, Doctorate, 2021 - 2022
Güneş Enerjisi: Fotovoltaik Enerji Dönüşümü, Teknolojiler ve Sistemler, Doctorate, 2020 - 2021
Optoelektronik ve Fotonik: İlkeler ve Uygulamalar, Post Graduate, 2019 - 2020
Güneş Enerjisi Temelleri, Post Graduate, 2019 - 2020
Enerji Kaynakları Fizigi, Post Graduate, 2018 - 2019
Enerjiye Giriş, Post Graduate, 2018 - 2019
Dogrusal Olmayan Optik, Doctorate, 2018 - 2019
İleri Optik ve Fotonik, Doctorate, 2018 - 2019
Fizik, Under Graduate, 2018 - 2019

Advising Theses

Kaya N., Monokristal ve Polikristal Fotovoltaik Güneş Panellerinin Dalga Boyuna Bağlı Performans Analizleri, Post Graduate, S.GÖKÇEN(Student), 2021
Kaya N., Atmosferik düzeyde metan ölçümleri için ultra-hassas optik sensör tasarımı, Post Graduate, A.KESKİN(Student), 2021

Jury Memberships

Doctoral Examination, Doktora yeterlilik sınavı, Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, June, 2018
Doctoral Examination, Doktora yeterlilik sınavı, Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, September, 2017
Post Graduate, Yüksek Lisans Tez Savunma sınavı Jüri üyeliği, Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, August, 2017
Appointment Academic Staff, Elektronik ve Otomasyon Bölümü, Deniz Teknolojileri MYO, öğretim elemanı atama sınavı, Çanakkale Onsekiz Mart Üniversitesi, Deniz Teknolojileri MYO, July, 2017
Doctorate, Doktora Tez Savunma Jürisi, Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, June, 2017
Doctorate, Doktora tez savunma jürisi, Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, June, 2017
Doctorate, Doktora Tez Savunma Jürisi, Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, June, 2017

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

- I. **Design of new ultra-sensitive methane sensor based on optical approaches**
Keskin A., Kaya N., Kaya G.
Lasers In Engineering, vol.51, no.1-3, pp.1-11, 2021 (Journal Indexed in SCI Expanded)
- II. **Diffraction multifocal lenses by computer-generated holograms**
KAYA N., KAYA G., Strohaber J., Zhou J., Kolomenski A., Schuessler H. A.
Optical Engineering, vol.60, no.5, 2021 (Journal Indexed in SCI)
- III. **In-situ measurement of aligning intensity and rotational temperature in field-free molecular alignment via white light generation**
Kaya N., Kaya G., Boran Y., Kolomenski A., Schuessler H. A.
Optik, vol.242, no.167360, pp.1-8, 2021 (Journal Indexed in SCI)
- IV. **Energy and angular distributions of electrons from sodium atoms photo-ionized with femtosecond laser pulses**
BORAN Y., Hart N., KAYA N., Zhou J., kolomenski A., Schuessler H. A.
Journal of Physics B: Atomic, Molecular and Optical Physics, 2021 (Journal Indexed in SCI)
- V. **Sensitive Spectroscopic Analysis of Biomarkers in Exhaled Breath**
Bicer A., Bounds J., Zhu F., Kolomenskii A. A. , KAYA N., Aluauee E., Amani M., Schuessler H. A.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.39, no.6, 2018 (Journal Indexed in SCI)
- VI. **Dissociative ionization of acetonitrile in intense femtosecond laser fields**
BORAN Y., Kolomenskii A. A. , SAYRAC M., KAYA N., Schuessler H. A. , STROHABER J.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.50, no.13, 2017 (Journal Indexed in SCI)
- VII. **Time slicing in 3D momentum imaging of the hydrogen molecular ion photo-fragmentation**
KAYA N., Kaya G., Pham F. V. , Strohaber J., Kolomenskii A. A. , Schuessler H. A.
REVIEW OF SCIENTIFIC INSTRUMENTS, vol.88, no.2, 2017 (Journal Indexed in SCI)
- VIII. **Nonadiabatic molecular alignment of linear molecules probed by strong-field ionization yields of photoelectrons**
Kaya G., KAYA N., STROHABER J., Hart N. A. , Kolomenskii A. A. , Schuessler H. A.
APPLIED PHYSICS B-LASERS AND OPTICS, vol.122, no.12, 2016 (Journal Indexed in SCI)
- IX. **Effect of circularly polarized femtosecond laser pulses on alignment dynamics of linear molecules observed by strong-field photoelectron yields**
KAYA N., Kaya G., STROHABER J., Kolomenskii A. A. , Schuessler H. A.
EUROPEAN PHYSICAL JOURNAL D, vol.70, no.10, 2016 (Journal Indexed in SCI)
- X. **Extension of filament propagation in water with Bessel-Gaussian beams**
Kaya G., KAYA N., Sayrac M., Boran Y., Strohaber J., Kolomenskii A. A. , Amani M., Schuessler H. A.
AIP ADVANCES, vol.6, no.3, 2016 (Journal Indexed in SCI)
- XI. **Probing nonadiabatic molecular alignment by spectral modulation**
KAYA N., Kaya G., SAYRAC M., Horan Y., ANUMULA S., STROHABER J., Kolomenskii A. A. , Schuessler H. A.
OPTICS EXPRESS, vol.24, no.3, pp.2562-2576, 2016 (Journal Indexed in SCI)
- XII. **White-light generation control with crossing beams of femtosecond laser pulses**
Kolomenskii A. A. , STROHABER J., KAYA N., Kaya G., Sokolov A. V. , Schuessler H. A.
OPTICS EXPRESS, vol.24, no.1, pp.282-293, 2016 (Journal Indexed in SCI)
- XIII. **Pressure optimization of high harmonic generation in a differentially pumped Ar or H-2 gas jet**
Sayrac M., Kolomenskii A. A. , Anumula S., Boran Y., Hart N. A. , KAYA N., Strohaber J., Schuessler H. A.
REVIEW OF SCIENTIFIC INSTRUMENTS, vol.86, no.4, 2015 (Journal Indexed in SCI)
- XIV. **Intensity-resolved above-threshold ionization of xenon with short laser pulses**
Hart N. A. , STROHABER J., Kaya G., KAYA N., Kolomenskii A. A. , Schuessler H. A.
PHYSICAL REVIEW A, vol.89, no.5, 2014 (Journal Indexed in SCI)
- XV. **White-light generation using spatially-structured beams of femtosecond radiation**
KAYA N., STROHABER J., Kolomenskii A. A. , Kaya G., SCHROEDER H., Schuessler H. A.
OPTICS EXPRESS, vol.20, no.12, pp.13337-13346, 2012 (Journal Indexed in SCI)

- XVI. **In situ tomography of femtosecond optical beams with a holographic knife-edge**
Strohaber J., Kaya G., KAYA N., HART N., Kolomenskii A. A. , Paulus G. G. , Schuessler H. A.
OPTICS EXPRESS, vol.19, no.15, pp.14321-14334, 2011 (Journal Indexed in SCI)
- XVII. **Measurement of K-shell jump ratios and jump factors for some elements in $76 \leq Z \leq 92$ using EDXRF spectrometer**
KAYA N., APAYDIN G., TIRAŞOĞLU E.
RADIATION PHYSICS AND CHEMISTRY, vol.80, no.6, pp.677-681, 2011 (Journal Indexed in SCI)
- XVIII. **An L-III (2P(3/2)) subshell absorption jump ratio and jump factor for bismuth**
KAYA N., Koby A. I. , TIRAŞOĞLU E., APAYDIN G.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.41, no.22, 2008 (Journal Indexed in SCI)
- XIX. **Chemical effects on K and L shell production cross sections and transfer probabilities in Nb compounds**
Cengiz E., Aylikci V., KAYA N., APAYDIN G., TIRAŞOĞLU E.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.278, no.1, pp.89-96, 2008 (Journal Indexed in SCI)
- XX. **Investigation of Coster-Kronig transition probabilities (L-1 → L-2, L-1 → L-3, and L-2 → L-3) for Hf and Hf compounds**
Cengiz E., APAYDIN G., Aylikci V., KAYA N., TIRAŞOĞLU E.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.77, no.5, 2008 (Journal Indexed in SCI)
- XXI. **Determination of K shell absorption jump factors and jump ratios in the elements between Tm(Z=69) and Os(Z=76) by measuring K shell fluorescence parameters**
KAYA N., TIRAŞOĞLU E., APAYDIN G.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.266, no.7, pp.1043-1048, 2008 (Journal Indexed in SCI)
- XXII. **K shell, L shell-subshell and M shell-subshell photoeffect cross-sections in elements between Tb (Z=65) and U (Z=92) at 123.6 keV**
KAYA N., APAYDIN G., Aylikci V., Cengiz E., TIRAŞOĞLU E.
RADIATION PHYSICS AND CHEMISTRY, vol.77, no.2, pp.101-106, 2008 (Journal Indexed in SCI)
- XXIII. **K-shell absorption jump factors and jump ratios in elements between Tm (Z=69) and Os (Z=76) derived from new mass attenuation coefficient measurements**
KAYA N., TIRAŞOĞLU E., Apaydin G., AYLIKCI V., CENGİZ E.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.262, no.1, pp.16-23, 2007 (Journal Indexed in SCI)
- XXIV. **Chemical effect on the K and L shell intensity ratios of Hf compounds**
AYLIKCI V., TIRAŞOĞLU E., APAYDIN G., Kaya N., CENGİZ E.
PHYSICA SCRIPTA, vol.76, no.1, pp.31-36, 2007 (Journal Indexed in SCI)
- XXV. **Chemical effect on the L X-ray cross-sections and average fluorescence yields of Hf compounds**
AYLIKCI V., APAYDIN G., TIRAŞOĞLU E., KAYA N., CENGİZ E.
CHEMICAL PHYSICS, vol.332, pp.348-352, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Direct Mass Spectroscopy Analysis and Comparison of Middle Eastern and Texas Crude Oils**
Kaya G., Kaya N., Amani M., Rahman A., Kolomenski A., Schuessler H.
International Journal of Organic Chemistry, vol.7, no.4, pp.312-318, 2017 (Journal Indexed in ESCI)
- II. **Field-free molecular alignment control of filamentation**
KAYA N.
TURKISH JOURNAL OF PHYSICS, vol.41, no.3, pp.196-202, 2017 (Journal Indexed in ESCI)

Books & Book Chapters

- I. **Nonadiabatic Molecular Alignment of Linear Molecules Probed by Strong-Field Ionization Yields of Photoelectrons**
KAYA N., KAYA G., Strohaber J., Hart N., Kolomenski A., Schuessler H.
in: Exploring the World with the Laser, Dieter Meschede, Thomas Udem, Tilman Esslinger, Editor, Springer, Cham, pp.577-595, 2018
- II. **Nonadiabatic Molecular Alignment of Linear Molecules Probed by Strong-Field Ionization Yields of Photoelectrons**
KAYA G., KAYA N., Strohaber J., Hart N., Kolomenskii A., Schuessler H.
in: Exploring the World with the Laser, Dieter Meschede, Thomas Udem, Tilman Esslinger, Editor, Springer, Cham, pp.577-595, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Study of wireless energy transmission by different laser modes**
KAYA N., KAYA G.
INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Turkey, 03 June 2021
- II. **Creating Airy beams as directed and concentrated energy**
KAYA G., AVCI S., KAYA N., KURT A., KURT M.
INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Turkey, 03 June 2021
- III. **Generation of Programmable Diffractive Multi-Focal Lenses**
KAYA N., KAYA G.
4th International Conference on Physical Chemistry and Functional Materials (PCFM'21), Elazığ, Turkey, 08 April 2021
- IV. **Comparison of Effect of Monocrystalline and Polycrystalline Solar Panels on Energy Outputs using Linear Regression Analysis**
Gökçen S., KAYA N.
3rd International Istanbul Scientific Research Congress, İstanbul, Turkey, 08 January 2021
- V. **The Future and Employment of Renewable Energy**
Gökçen S., KAYA N.
International Sustainability Living Conference on Rating Academy, Çanakkale, Turkey, 24 December 2020
- VI. **Efficiency analysis of photovoltaic solar panels with monocrystalline and polycrystalline**
Gökçen S., KAYA N.
36th International Physics Congress on Turkish Physical Society (TFD), Muğla, Turkey, 01 September 2020
- VII. **Design of an Ultra-Sensitive Optical Sensor for Atmospheric Level Methane Measurement**
KESKİN A., KAYA G., KAYA N.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), 4 - 08 September 2019, vol.1, pp.54-58
- VIII. **Generation of programmable diffractive lenses with multiple or multi-optical axes, multi-focus, dynamic distance control of focal lengths and energy intensities at foci.**
ÇELİK G., KAYA G., KURT M., KAYA N.
TFD35:Turkish Physical Society 35. International Physics Congress, Bodrum, Turkey, 4 - 08 September 2019
- IX. **Design of an ultra-sensitive optical sensor for atmospheric level methane measurement.**
KESKİN A., KAYA G., KAYA N.
TFD35:Turkish Physical Society 35. International Physics Congress, Bodrum, Turkey, 4 - 08 September 2019
- X. **Femtosecond Laser-Induced Filamentation Control in Liquids**
Keskin A., KAYA G., KAYA N.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), 4 - 08 September 2019, vol.1, pp.50-53

- XI. **Generation of Programmable Diffractive Lenses with Multiple or Multi-Optical Axes, Multi-Focus, Dynamic Distance Control of Focal Lengths and Energy Intensities at Foci**
 Çelik G., KAYA G., KURT M., KAYA N.
 TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), 4 - 08 September 2019, vol.1, pp.27-30
- XII. **Femtosecond laser-induced filamentation control in liquids.**
 KESKİN A., KAYA G., KAYA N.
 TFD35: Turkish Physical Society 35. International Physics Congress, Bodrum, Turkey, 4 - 08 September 2019
- XIII. **Laser induced molecular alignment of CO₂ measured with ATI yields**
 KURT M., KAYA G., KURT A., KAYA N.
 TFD35: Turkish Physical Society 35. International Physics Congress, Bodrum, Turkey, 4 - 08 September 2019
- XIV. **STUDY OF THREE-DIMENSIONAL MOMENTUM IMAGING DURING H₂ PHOTO-FRAGMENTATION**
 KAYA N., KAYA G., ALEXANDRE A. K., KURT M., SCHUESSLER H.
 TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, Bodrum, Turkey, 6 - 10 September 2017
- XV. **Pressure dependence on nonadiabatic molecular alignment**
 KAYA G., KAYA N.
 Turkish Physical Society 33rd International Physics Congress, Bodrum, Turkey, 6 - 10 September 2017
- XVI. **Laser induced field-free molecular alignment in dissipative media**
 KAYA G., KAYA N.
 TFD33: Turkish Physical Society 33rd International Physics Congress, Bodrum, Turkey, 6 - 09 September 2017
- XVII. **Analysis of the components of the crude oil samples with no sample pretreatment**
 KAYA G., KAYA N.
 TFD33: Turkish Physical Society 33rd International Physics Congress, Bodrum, Turkey, 6 - 09 September 2017
- XVIII. **Photo-fragmentation of H₂ with femtosecond laser pulses by employing a time-sliced 3D imaging technique**
 KAYA N., KAYA G., JAMES S., ALEXANDRE K., KURT M., HANS S.
 Turcmos 2017, Bodrum, Turkey, 26 June - 29 July 2017
- XIX. **Nonadiabatic molecular alignment of linear molecules using circularly polarized femtosecond laser pulses**
 KAYA N., KAYA G.
 TURCMOS 2017: The 3rd International Turkish Congress on Molecular Spectroscopy, Bodrum, Turkey, 26 - 29 August 2017
- XX. **Spatio-Temporal Control of Femtosecond Laser Filamentation and White-Light Generation**
 KAYA N., Kaya G., STROHABER J., Kolomenskii A., SCHUESSLER H.
 32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- XXI. **Manifestations of induced molecular alignment in the interaction of ultrafast laser pulses with gases**
 Kolomenskii A. A., KAYA N., Kaya G., Sayrac M., Boran Y., Strohaber J., Schuessler H. A.
 25th Annual International Laser Physics Workshop (LPHYS), Yerevan, Armenia, 11 - 15 July 2016, vol.826
- XXII. **Control of Femtosecond Filamentation by Revivals of Nonadiabatic Molecular Alignment**
 KAYA N., Kaya G., Boran Y., Kolomenskii A. A., Amani M., Schuessler H. A.
 Conference on Lasers and Electro-Optics Europe / European Quantum Electronics Conference (CLEO/Europe-EQEC), Munich, Germany, 25 - 29 June 2017
- XXIII. **Spatio temporal control of filamentation and white light generation**
 KOLOMENSKI A., KAYA N., KAYA G., STROHABER J., SCHUESSLER H.
 LPHYS'16: 25th Annual International Laser Physics Workshop, Yerevan, Armenia, 11 - 15 July 2016
- XXIV. **Manifestations of Induced Molecular Alignment in the Interaction of Ultrafast Laser Pulses with Gases**
 KOLOMENSKI A., KAYA N., KAYA G., SAYRAC M., BORAN Y., STROHABER J., SCHUESSLER H.
 LPHYS'16: 25th Annual International Laser Physics Workshop, Yerevan, Armenia, 11 - 15 July 2016
- XXV. **Impulsive molecular alignment control on filamentation**

- KAYA N., KAYA G., KOLOMENSKI A., SCHUESSLER H.
SWUFC-2016 Southwest Ultrafast Conference, AUSTIN, United States Of America, 16 - 17 June 2016
- XXVI. **Photo electron yields of linear molecules aligned by circularly polarized femtosecond laser pulses**
KAYA G., KAYA N., KOLOMENSKI A., SCHUESSLER H.
SWUFC-2016 Southwest Ultrafast Conference, AUSTIN, United States Of America, 16 - 17 June 2016
- XXVII. **Sensitive Molecular Spectroscopy of crude oil and well gas**
KAYA G., KAYA N., AMANI M., KOLOMENSKII A. A., SCHUESSLER H. A.
Forcing partnerships to meet challenges: The 5th annual Research-Industry Partnership Showcase, Doha, Qatar, 15 May 2016
- XXVIII. **Sensitive spectroscopic analysis of isotopes for characterization of crude oil and well gas samples**
KAYA N., RAHMAN J., STROHABER J., AMANI M., SCHUESSLER H.
ARC'16: The Qatar Foundation Annual Research Conference 2016, EDUCATION CITY, Qatar, 22 - 23 March 2016
- XXIX. **Mid Infrared Dual Frequency Comb Spectroscopy for Time Resolved Methane Detection**
KAYA N., RAHMAN J., KOLOMENSKI A., ZHU F., SCHUESSLER H.
ARC'16: The Qatar Foundation Annual Research Conference 2016, EDUCATION CITY, Qatar, 22 - 23 March 2016
- XXX. **Sensitive Molecular Spectroscopy of crude oil and well gas in sea water**
BORAN Y., RAHMAN J., KAYA N., STROHABER J., KOLOMENSKI A., AMANI M., KELESSIDIS V., SCHUESSLER H.
SIBOR 2015 - Workshop, Cook's Branch Conservancy, MONTGOMERY, TEXAS, United States Of America, 06 November 2015
- XXXI. **Time sliced 3D momentum imaging of Hydrogen ion photofragmentation**
KAYA N., KAYA G., STROHABER J., KOLOMENSKI A., SCHUESSLER H.
SIBOR 2015- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEXAS, United States Of America, 06 November 2015
- XXXII. **Molecular alignment control of filamentation**
KAYA N., KAYA G., SAYRAC M., ANUMULA S., BORAN Y., KOLOMENSKII A., AMANI M., SCHUESSLER H.
ATTO2015: 5th International conference on Attosecond Physics. July 6-10, 2015 in Saint-Sauveur, Québec, Canada, Saint-Sauveur, Canada, 6 - 10 July 2015
- XXXIII. **Sensitive molecular analysis of decomposed crude oil under vacuum condition**
RAHMAN J., BORAN Y., KAYA N., STROHABER J., KOLOMENSKI A., KELESSIDIS V., SCHUESSLER H.
4th TAMUQ Annual Research and Industry Partnership Showcase, 23 April 2015
- XXXIV. **HHG enhancement in a mixture of a noble gas Ne with H₂ molecules**
SAYRAC M., KOLOMENSKI A., STROHABER J., ANUMULA S., BORAN Y., KAYA N., SCHUESSLER H.
SIBOR 2014- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEXAS, United States Of America, 07 November 2014
- XXXV. **Filament propagation length of femtosecond pulses with Gaussian and Bessel Gaussian modes**
KAYA N., MUHAMMED S., KAYA G., BORAN Y., JAMES S., ALEXANDRE K., HANS S.
Bulletin of the American Physical Society: Fall 2014 Joint Meeting of the Texas Section of the APS, Texas Section of the AAPT, and Zone 13 of the Society of Physics Students, United States Of America, 17 - 19 October 2014, vol.59
- XXXVI. **Sensitive Molecular Spectroscopy of Crude Oil and Well Gas Samples**
BORAN Y., RAHMAN J., KAYA N., STROHABER J., KOLOMENSKI A., AMANI M., KELESSIDIS V., SCHUESSLER H.
Bulletin of the American Physical Society: Fall 2014 Joint Meeting of the Texas Section of the APS, Texas Section of the AAPT, and Zone 13 of the Society of Physics Students, United States Of America, 17 - 19 October 2014, vol.59
- XXXVII. **Time sliced 3D momentum imaging of H₂ photofragmentation**
KAYA N., KAYA G., STROHABER J., KOLOMENSKI A., SCHUESSLER H.
ICAP 2014: 24th International Conference on Atomic Physics, August 3-8, 2014, Washington D.C., Washington, Kiribati, 3 - 08 August 2014
- XXXVIII. **Improving conversion efficiency of high harmonic generation with gas mixtures**
SAYRAC M., KOLOMENSKI A., STROHABER J., BORAN Y., KAYA N., SCHUESSLER H.
ICAP 2014: 24th International Conference on Atomic Physics, August 3-8, 2014, Washington D.C., Washington, Kiribati, 3 - 08 August 2014
- XXXIX. **Effect of different transverse modes of femtosecond pulses on filament propagation**

KAYA N., KAYA G., SAYRAC M., STROHABER J., KOLOMENSKI A., SCHUESSLER H.

ICAP 2014: 24th International Conference on Atomic Physics, August 3-8, 2014, Washington D.C., Washington, Kiribati, 3 - 08 August 2014

- XL. **Enhancement or suppression of white light generation at the interaction of crossing femtosecond laser beams**
KAYA N., KOLOMENSKI A., KAYA G., SCHROEDER H., STROHABER J., SCHUESSLER H.
SIBOR 2013- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEKSAS, United States Of America, 01 November 2013
- XLI. **Time sliced 3D imaging of photodissociation of H₂ at 800nm**
KAYA N., PHAM F., KAYA G., STROHABER J., KOLOMENSKI A., PAULUS G., SCHUESSLER H.
SIBOR 2013- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEXAS, United States Of America, 01 November 2013
- XLII. **Molecular rotational constants of N₂, O₂, CO, and C₂H₂ measured with photoelectron ionization yield**
KAYA G., KAYA N., Hart N. A. , Sayraç M., Anumula S., Strohhaber J., Kolomenskii A. A. , Amani M., Schuessler H. A.
SIBOR 2014 - Workshop, Montgomery, Teksas, United States Of America, 07 November 2014 - 01 November 2013
- XLIII. **White light generation by intense femtosecond pulses with different transverse modes A detailed study on Bessel beam propagation**
KAYA N., SAYRAC M., KAYA G., STROHABER J., KOLOMENSKI A., SCHUESSLER H.
SIBOR 2013 - Workshop, Cook's Branch Conservancy, MONTGOMERY, TEKSAS, United States Of America, 01 November 2013
- XLIV. **White-light generation by intense femtosecond pulses with different transverse modes**
KAYA N., Sayraç M., KAYA G., Strohhaber J., Kolomenskii A. A. , Schuessler H. A.
SIBOR 2013 - Workshop, Montgomery, Teksas, United States Of America, 01 November 2012 - 01 November 2013
- XLV. **Pressure optimization of HHG for bio-chemical applications**
Sayraç M., Kolomenskii A. A. , Anumula S., Boran Y., KAYA G., KAYA N., Schuessler H.
SIBOR2014- Workshop, Montgomery, Teksas, United States Of America, 07 November 2014 - 01 November 2013
- XLVI. **Revival structures of N₂ Molecules in Field-Free Alignment by Above Threshold Ionization**
KAYA G., Strohhaber J., KAYA N., Hart N., Kolomenskii A. A. , Schuessler H. A.
SIBOR 2013 - Workshop, Montgomery, Teksas, United States Of America, 01 November 2013
- XLVII. **Revival structures of N Molecules in Field Free Alignment by Above Threshold Ionization**
KAYA G., STROHABER J., KAYA N., HART N., KOLOMENSKI A., SCHUESSLER H.
SIBOR 2013 - Workshop, Cook's Branch Conservancy, MONTGOMERY, United States Of America, 01 November 2013
- XLVIII. **White light generation using spatially structured beams of femtosecond radiation**
KAYA N., STROHABER J., SCHROEDER H., KOLOMENSKI A., KAYA G., PAULUS G., SCHUESSLER H.
ICAP 2012: The 23rd International Conference on Atomic Physics, 23-27 July 2012 Ecole polytechnique, Palaiseau-France, Palaiseau, France, 23 - 27 July 2012
- XLIX. **Determination of probabilities of radiative vacancy transfer from K to L shell using K shell intensity ratios for Co and Cu complexes**
CENGİZ E., BIYIKLIOĞLU Z., AYLIKCI V., APAYDIN G., KAYA N., TIRAŞOĞLU E.
Turkish Physic Society 24th International Physics Conference, 28 - 31 August 2007, Inonu University, Malatya, Turkey, Malatya, Turkey, 28 - 31 August 2007, pp.70-82
- L. **Effective atomic numbers and electron densities of CoCuAg alloy at 7 different energies from 6 403 to 27 472keV**
KAYA N.
Turkish Physic Society 24th International Physics Conference, 28 - 31 August 2007, Inonu University, Malatya, Turkey, Malatya, Turkey, 28 - 31 August 2007, pp.87-91
- LI. **Chemical effect on K shell cross sections of Cu compounds at 59 5 keV**
AYLIKCI V., TIRAŞOĞLU E., KANTEKİN H., CENGİZ E., APAYDIN G., KAYA N.
Turkish Physic Society 24th International Physics Conference, 28 - 31 August 2007, Inonu University, Malatya,

Turkey, Malatya, Turkey, 28 - 31 August 2007, pp.83-86

LII. Determination of K shell fluorescence yields of hf compounds at 123.6 keV

Aylikci V., Apaydin G., KAYA N., Cengiz E., Tirasolu E.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.163-164

LIII. Measurements of total atomic attenuation cross sections of Tm, Yb, Lu, Hf, Ta, W, Re and Os elements at 122keV and 136keV

KAYA N., TIRAŞOĞLU E., APAYDIN G., Kobya A. I.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.173-174

LIV. K-beta/K-alpha X-ray transition-probability ratios for 8 elements in the range $69 \leq Z \leq 76$

KAYA N., TIRAŞOĞLU E., Aylikci V., Cengiz E.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.565

Supported Projects

KAYA G., KAYA N., KURT M., KURT A., Project Supported by Higher Education Institutions, Faz temelli uzamsal ışık modülatörü kullanarak holografik Airy ışınlarının üretilmesi, 2021 - Continues

KAYA N., Sönmez F., Project Supported by Higher Education Institutions, Uzak Mesafe Kablosuz Enerji Aktarımı: Farklı Lazer TEM Modlarında Elektromanyetik Enerji İletimi, 2020 - Continues

KAYA N., EU Supported Other Project, Yenilenebilir Gençlik Enerjisi (REYOU), 2017 - Continues

KAYA N., Other Supported Projects, Absorption spectroscopy with frequency comb lasers for gas analysis, 2016 - Continues

KAYA N., Other Supported Projects, Optical Studies of Ultra Cold Molecular Ions Using Femtosecond and XUV Laser Radiation, 2014 - Continues

Kaya G., Kaya N., TUBITAK Project, Eş Eksenli Ya Da Çok Eksenli, Çok Odaklı Programlanabilir Holografik Difraktif Lenslerin Üretilmesi, 2020 - 2023

Kaya N., Gökçen S., Project Supported by Higher Education Institutions, Monokristal ve Polikristal Fotovoltaik Güneş Panellerinin Dalga Boyuna Bağlı Performans Analizleri, 2020 - 2021

KAYA N., Keskin A., Project Supported by Higher Education Institutions, Atmosferik düzeyde metan ölçümleri için ultrahassas optik sensör tasarımı, 2019 - 2021

KAYA N., Other Supported Projects, Remote Measurements of Hydrocarbon and Greenhouse Gases in Fluids Carrying Them, 2013 - 2017

KAYA N., Other Supported Projects, Gas tracers for interwell exploring petroleum reservoir structure, 2012 - 2016

KAYA N., Other Supported Projects, Development of a Phase-coherent Laser System for Attosecond Science and Precision Spectroscopy, 2007 - 2013

KAYA N., Other Supported Projects, Quantum Optics with Single Optical Cycles, 2006 - 2012

KAYA N., Other Supported Projects, Atomic and Molecular Ions in Ultra-intense and ultrashort laser fields, 2007 - 2011

Memberships / Tasks in Scientific Organizations

Hidrojen Teknolojileri , Member, 2021 - Continues, Turkey

APS, Member, 2014 - 2015

OSA, Member, 2011 - 2014

Scientific Refereeing

Journal of Quantitative Spectroscopy & Radiative Transfer, SCI Journal, January 2017

AIP Advances, SCI Journal, January 2017

Canadian Journal of Physics, SCI Journal, January 2017

Radiation Physics and Chemistry, SCI Journal, January 2016

Optical and Quantum Electronics , SCI Journal, January 2016

Scientific Research / Working Group Memberships

SIBOR, Texas A&M University, United States Of America, <http://sibor.physics.tamu.edu>, 2010 - 2017

Edit Congress and Symposium Activities

II. INTERNATIONAL CONFERENCE ON AWARENESS, Moderator, Çanakkale, Turkey, 2018

Citations

Total Citations (WOS):233

h-index (WOS):10