

# **Prof. ZİKRİ ALTUN**

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## **Education Information**

Doctorate, The University of Virginia, Fizik, United States Of America 1976 - 1982  
Postgraduate, Bogazici University, Institute Of Science, Fizik (Dr), Turkey 1975 - 1976  
Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1970 - 1974

## **Academic Titles / Tasks**

Professor, Marmara University, Faculty of Arts and Sciences, Physics, 1991 - Continues  
Associate Professor, Marmara University, Faculty of Arts and Sciences, Physics, 1987 - 1991  
Assistant Professor, Marmara University, Faculty of Arts and Sciences, Physics, 1982 - 1986

## **Academic and Administrative Experience**

Marmara University, Faculty of Arts and Sciences, Physics, 2017 - Continues  
Marmara University, Faculty of Arts and Sciences, Physics, 2017 - Continues  
Marmara University, Faculty of Arts and Sciences, Physics, 1984 - Continues  
Marmara University, Faculty of Arts and Sciences, Physics, 1984 - 1987

## **Advising Theses**

ALTUN Z., M010+ - M014+ iyonlarının elektron çarpmalı iyonlaşma tesir kesit ve oranları, Postgraduate, S.Çiplak(Student), 2015  
ALTUN Z., Metalik nano yapılar civarında tek elektronlu iyonlardan oluşan gaz hedeflerden üretilen yüksek mertebeli harmonik spektrumda çift mertebeli harmoniklerin bastırılması, Postgraduate, S.DEMİRÇİ(Student), 2015  
ALTUN Z., Mo10+ - Mo14+ iyonlarının elektron çarpmalı iyonlaşma tesir kesit ve oranları, Postgraduate, S.ÇIPLAK(Student), 2015  
ALTUN Z., Geçiş metal bileşiklerinde manyetizma ve spin geçişleri, Postgraduate, M.ALİ(Student), 2013  
ALTUN Z., Atomik hedeflerden yüksek-mertebeli harmonik üretimde verim artırılması: iki renk sürümü, gürültü ve uyarılma etkileri, karboksil asit dimerlerinin ayrışma reaksiyon dinamikleri, Doctorate, İ.YAVUZ(Student), 2012  
ALTUN Z., Atom numarası  $4 \leq Z \leq 18$  aralığında olan ve lityum konfigürasyonuna sahip elementlerin düşük sıcaklık ışimalı ve dielektronik birleşme oran katsayılarının hesabı, Postgraduate, V.KARAKAŞ(Student), 2012  
ALTUN Z., Atom numarası  $4 \leq Z \leq 18$  aralığında olan ve lityum konfigürasyonuna sahip elementlerin düşük sıcaklık ışimalı ve dielektronik birleşme oran katsayılarının hesabı, Postgraduate, V.KarakAŞ(Student), 2012  
ALTUN Z., Ar(+1) - Ar(+5) iyonlarının elektron çarpmalı ve Ar(+5) iyonunun çarpışmalı dielektronik birleşme tesir

kesit ve oran katsayılarının çok konfigürasyonlu breit-pauli yaklaşımında hesabı, Postgraduate, E.ARSLAN(Student), 2010

ALTUN Z., Elektron-iyon bireleşmesi ve elektron-iyon çarpışmalı iyonlaşma, gaz fazında otoiyonlaşmaya karşı kararlı dianyonlar, dikatyonlar ve coulomb patlaması, Doctorate, A.YUMAK(Student), 2008

ALTUN Z., Sodyum konfigürasyonuna sahip kalay ve tungsten iyonlarının konfügürasyon ortalamalı çarpılmış dalga yaklaşımında elektron-çarpma iyonlaşma tesir kesitlerinin hesabı, Postgraduate, U.Gölçek(Student), 2008

ALTUN Z., Sodyum konfigürasyonuna sahip kalay ve tungsten iyonlarının konfigürasyon ortalamalı çarpılmış dalga yaklaşımında elektron-çarpma iyonlaşma tesir kesitlerinin hesabı, Postgraduate, U.GÖLÇEK(Student), 2007

ALTUN Z., (n1l1)q1 (n2l2)q2 ve (n1l1)q1 (n2l2)q2 (n3l3)q3 şeklinde uyarılmış elektron konfigürasyonlarına sahip atomların oto-iyonlaşma oranlarının açısal integrallerinin açısal momentum grafikleri yardımıyla hesaplanması ve radyal denklemelerin elde edilmesi, Postgraduate, İ.Yavuz(Student), 2006

ALTUN Z., (n1l1)q1 (n2l2)q2 ve (n1l1)q1 (n2l2)q2 (n3l3)q3 şeklinde uyarılmış elektron konfigürasyonlarına sahip atomların oto-iyonlaşma oranlarının açısal integrallerinin açısal momentum grafikleri yardımıyla hesaplanması ve radyal denklemelerin elde edilmesi, Postgraduate, İ.YAVUZ(Student), 2006

ALTUN Z., Boron konfigürasyonuna sahip F4+, Na6+, Mg7+, Al8+, P10+, Ar13+ gibi iyonlar için dielektronik ve radiative rekombinasyon oran sabitlerinin hesabı, Postgraduate, A.AYKAÇ(Student), 2004

ALTUN Z., Birinci mertebeden taban ve son hal korelasyonlarının titanyum atomunun photo iyonlaşma geçiş genliklerine etkileri, Postgraduate, A.Yumak(Student), 2002

ALTUN Z., Titanyum atomunun 3p, 3d ve 4s alt kabukları için foto elektron açısal dağılımları, Postgraduate, M.FATİH(Student), 2002

ALTUN Z., Birinci mertebeden taban ve son hal korelasyonlarının titanyum atomunun geçiş genliklerine etkileri, Postgraduate, A.YUMAK(Student), 2002

ALTUN Z., Titanyum atomunun toplam ve kısmi fotoiyonlaşma tesir kesiti hesapları, Postgraduate, M.ALEVİLİ(Student), 2001

ALTUN Z., Skandium atomunun valans ve valans altı kısmı fotoiyonlaşma tesir kesitleri ve çok elektron korolasyonları, Postgraduate, S.TOKDEMİR(Student), 1995

ALTUN Z., Açık kabuklu atomların fotoiyonlaşma tesir kesitlerinin hesabında tek-elektron etkin potansiyel kullanımı ve scandium atomuna tatbiki, Postgraduate, O.NALBANT(Student), 1992

ALTUN Z., Kükürt atomunun Hartree- fock tesir kesitleri, Postgraduate, A.Topyürek(Student), 1991

ALTUN Z., Kükürt atomunun hartree-fock tesir kesitleri, Postgraduate, A.TOPYÜREK(Student), 1991

ALTUN Z., Alüminyum atomunun fotoiyonlaşma tesir kesitinin bulunması, Postgraduate, E.ÜNAL(Student), 1989

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

- I. Atoms in Highly Symmetric Environments: H in Rhodium and Cobalt Cages, H in an Octahedral Hole in MgO, and Metal Atoms Ca-Zn in C-20 Fullerenes  
ALTUN Z., BLEDA E. A., Trindle C.  
SYMMETRY-BASEL, vol.13, no.7, 2021 (SCI-Expanded)
- II. Focal Point Evaluation of Energies for Tautomers and Isomers for 3-hydroxy-2-butenamide: Evaluation of Competing Internal Hydrogen Bonds of Types -OH horizontal ellipsis O=, -OH horizontal ellipsis N, -NH horizontal ellipsis O=, and CH horizontal ellipsis X (X=O and N)  
Altun Z., Bleda E. A., Trindle C.  
MOLECULES, vol.26, no.9, 2021 (SCI-Expanded)
- III. Bonding Analysis of Compounds with Unusual Coordination of Carbon: Proposed Symmetric Systems with Six-Coordinate Carbon  
Trindle C., ALTUN Z., BLEDA E. A.  
MOLECULES, vol.25, no.17, 2020 (SCI-Expanded)
- IV. Drastically enhanced high-order harmonic generation from endofullerenes  
Topcu T., Bleda E. A., Altun Z.  
PHYSICAL REVIEW A, vol.100, no.6, 2019 (SCI-Expanded)

- V. **Picosecond to Nanosecond Manipulation of Excited-State Lifetimes in Complexes with an Fe-II to Ti(IV) Metal-to-Metal Charge Transfer: The Role of Ferrocene Centered Excited States**  
Livshits M. Y., Burlington M. D., Trindle C. O., Wang L., ALTUN Z., Wagenknecht P. S., Rack J. J.  
INORGANIC CHEMISTRY, vol.58, no.22, pp.15320-15329, 2019 (SCI-Expanded)
- VI. **Production of Carbamic Acid Dimer from Ammonia-Carbon Dioxide Ices: Matching Observed and Computed IR Spectra**  
ALTUN Z., BLEDA E. A., TRINDLE C.  
LIFE-BASEL, vol.9, no.2, 2019 (SCI-Expanded)
- VII. **A case study of antiaromaticity: carbomethoxy cyclopropenyl anion**  
ALTUN Z., BLEDA E. A., Trindle C.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.2, pp.594-613, 2019 (SCI-Expanded)
- VIII. **Control of molecular dissociation by spatially inhomogeneous near fields**  
Yavuz I., Schoetz J., Ciappina M. F., Rosenberger P., Altun Z., Lewenstein M., Kling M. F.  
PHYSICAL REVIEW A, vol.98, no.4, 2018 (SCI-Expanded)
- IX. **Phosphorescence Tuning through Heavy Atom Placement in Unsymmetrical Difluoroboron beta-Diketonate Materials**  
Liu T., Zhang G., Evans R. E., Trindle C. O., ALTUN Z., DeRosa C. A., Wang F., Zhuang M., Fraser C. L.  
CHEMISTRY-A EUROPEAN JOURNAL, vol.24, no.8, pp.1859-1869, 2018 (SCI-Expanded)
- X. **Single metal catalysis: DFT and CAS modelling of species involved in the Fe cation assisted transformation of acetylene to benzene**  
ALTUN Z., Bleda E. A., Trindle C.  
MOLECULAR PHYSICS, vol.115, pp.2185-2200, 2017 (SCI-Expanded)
- XI. **Titanocene as a New Acceptor (A) for Arylamine Donors (D) in D-pi-A Chromophores**  
Pienkos J. A., Agakidou A. D., Trindle C. O., Herwald D. W., ALTUN Z., Wagenknecht P. S.  
ORGANOMETALLICS, vol.35, no.16, pp.2575-2578, 2016 (SCI-Expanded)
- XII. **Computational characterization of isomeric C<sub>4</sub>H<sub>2</sub>O systems: Thermochemistry, vibrational frequencies, and optical spectra for butatrienone, ethynyl ketene, butadiynol, and triafulvenone**  
Sahin S., BLEDA E. A., ALTUN Z., Trindle C.  
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.116, no.6, pp.444-451, 2016 (SCI-Expanded)
- XIII. **Complexes with Tunable Intramolecular Ferrocene to Ti-IV Electronic Transitions: Models for Solid State Fe-II to Ti-IV Charge Transfer**  
Burlington M. D., Pienkos J. A., Carlton E. S., Wroblewski K. N., Myers A. R., Trindle C. O., ALTUN Z., Rack J. J., Wagenknecht P. S.  
INORGANIC CHEMISTRY, vol.55, no.5, pp.2200-2211, 2016 (SCI-Expanded)
- XIV. **Controlling electron localization in H-2(+) by intense plasmon-enhanced laser fields**  
Yavuz I., Ciappina M. F., Chacon A., Altun Z., Kling M. F., Lewenstein M.  
PHYSICAL REVIEW A, vol.93, no.3, 2016 (SCI-Expanded)
- XV. **High-order-harmonic generation from Rydberg atoms driven by plasmon-enhanced laser fields**  
Tikman Y., Yavuz I., Ciappina M. F., Chacon A., Altun Z., Lewenstein M.  
PHYSICAL REVIEW A, vol.93, no.2, 2016 (SCI-Expanded)
- XVI. **Studies on spin state preferences in Fe(II) complexes**  
BLEDA E. A., Trindle C., ALTUN Z.  
COMPUTATIONAL AND THEORETICAL CHEMISTRY, vol.1073, pp.139-148, 2015 (SCI-Expanded)
- XVII. **High-order-harmonic generation from H-2(+) molecular ions near plasmon-enhanced laser fields**  
YAVUZ İ., Tikman Y., ALTUN Z.  
PHYSICAL REVIEW A, vol.92, no.2, 2015 (SCI-Expanded)
- XVIII. **Thermochemistry of N-Heterocyclic Carbenes with 5-, 4-, 3-, and 2-Membered Rings**  
ALTUN Z., Bleda E. A., Trindle C., Wang J.  
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.114, no.10, pp.675-687, 2014 (SCI-Expanded)
- XIX. **Phase dependent interference fringes in the wavelength scaling of harmonic efficiency**  
ALTUN Z., BLEDA E. A., YAVUZ İ., TOPCU T.

- Physical Review X, vol.89, pp.55801, 2014 (SCI-Expanded)
- XX. **High-order-harmonic generation from Rydberg states at fixed Keldysh parameter**  
ALTUN Z., BLEDA E. A., YAVUZ İ., TURKER T.  
PHYSICAL REVIEW A, vol.88, no.4, 2013 (SCI-Expanded)
- XXI. **Experimental recombination rate coefficients of B-like carbon and B-like neon**  
Ali S., Mahmood S., Orban I., ALTUN Z., Schuch R.  
PHYSICA SCRIPTA, 2013 (SCI-Expanded)
- XXII. **RECOMBINATION RATE COEFFICIENTS OF BORON-LIKE Ne**  
Saftar M., IstvanM O., S A., GLANS P., BLEDA E. A., ALTUN Z., SCHUCH R.  
ASTROPHYSICAL JOURNAL, vol.771, no.2, 2013 (SCI-Expanded)
- XXIII. **Computational thermochemistry of glycolaldehyde**  
BLEDA E. A., YAVUZ İ., ALTUN Z., Trindle C.  
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.113, no.8, pp.1147-1154, 2013 (SCI-Expanded)
- XXIV. **Structure and energetics of cyclopropane carboxaldehyde**  
Trindle C., BLEDA E. A., ALTUN Z.  
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.113, no.8, pp.1155-1161, 2013 (SCI-Expanded)
- XXV. **Wavelength scaling of high-order-harmonic-generation efficiency by few-cycle laser pulses: Influence of carrier-envelope phase**  
Yavuz I., Altun Z., Topcu T.  
PHYSICAL REVIEW A, vol.86, no.4, 2012 (SCI-Expanded)
- XXVI. **Electron Ion Recombination Rate Coefficients For C II Forming CI**  
ALTUN Z., Istvan O., Sultan M., Schuch R., Ali S., Glains P.  
Astrophysical Journal, vol.753, pp.132, 2012 (SCI-Expanded)
- XXVII. **Generation of a broadband xuv continuum in high-order-harmonic generation by spatially inhomogeneous fields**  
YAVUZ İ., BLEDA E. A., ALTUN Z., Topcu T.  
PHYSICAL REVIEW A, vol.85, no.1, 2012 (SCI-Expanded)
- XXVIII. **Photophysical and Analyte Sensing Properties of Cyclometalated Ir(III) Complexes**  
Leavens B. B. H., Trindle C. O., Sabat M., ALTUN Z., Demas J. N., DeGraff B. A.  
JOURNAL OF FLUORESCENCE, vol.22, no.1, pp.163-174, 2012 (SCI-Expanded)
- XXIX. **Enhancement of high-order harmonic generation in the presence of noise**  
Yavuz I., Altun Z., Topcu T.  
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.44, no.13, 2011 (SCI-Expanded)
- XXX. **Two small thermodynamically stable organic dications**  
YUMAK YAHSİ A., YAVUZ İ., ALTUN Z., Trindle C.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.940, pp.6-12, 2010 (SCI-Expanded)
- XXXI. **Circular dichroism of some high-symmetry chiral molecules: B3LYP and SAOP calculations**  
Trindle C., ALTUN Z.  
THEORETICAL CHEMISTRY ACCOUNTS, vol.122, pp.145-155, 2009 (SCI-Expanded)
- XXXII. **Electron-impact ionization of atomic ions in the Na isoelectronic sequence**  
ALTUN Z., Yumak A., Golcek U., Loch S. D., Pindzola M. S., Griffin D. C.  
PHYSICA SCRIPTA, vol.78, no.2, 2008 (SCI-Expanded)
- XXXIII. **Dielectronic recombination data for dynamic finite-density plasmas - XIII. The magnesium isoelectronic sequence**  
Altun Z., Yumak A., Yavuz I., Badnell N. R., Loch S. D., Pindzola M. S.  
ASTRONOMY & ASTROPHYSICS, vol.474, no.3, pp.1051-1059, 2007 (SCI-Expanded)
- XXXIV. **Dielectronic recombination of Fe xv forming Fe xiv: Laboratory measurements and theoretical calculations**  
Lukic D. V., Schnell M., Savin D. W., Brandau C., Schmidt E. W., Boehm S., Mueller A., Schippers S., Lestinsky M., Sprenger F., et al.  
ASTROPHYSICAL JOURNAL, vol.664, no.2, pp.1244-1252, 2007 (SCI-Expanded)

- XXXV. **Determination of the recombination rate coefficients for Na-like SiIV forming Mg-like SiIII**  
Orban I., Glans P., Altun Z., Lindroth E., Kallberg A., Schuch R.  
ASTRONOMY & ASTROPHYSICS, vol.459, no.1, pp.291-296, 2006 (SCI-Expanded)
- XXXVI. **Dielectronic recombination data for dynamic finite-density plasmas - XI. The sodium isoelectronic sequence**  
Altun Z., Yumak A., Badnell N., Loch S., Pindzola M.  
ASTRONOMY & ASTROPHYSICS, vol.447, no.3, pp.1165-1174, 2006 (SCI-Expanded)
- XXXVII. **Erratum Dielectronic recombination data for dynamic finite density plasmas VI The boron isoelectronic sequence**  
ALTUN Z., YUMAK A., BADNELL N. R., COLGAN J., PINDZOLA M. S.  
Astronomy, vol.433, pp.395, 2005 (SCI-Expanded)
- XXXVIII. **Dielectronic recombination data for dynamic finite-density plasmas - VI. The boron isoelectronic sequence**  
Altun Z., Yumak A., Badnell N., Colgan J., Pindzola M.  
ASTRONOMY & ASTROPHYSICS, vol.420, no.2, pp.775-781, 2004 (SCI-Expanded)
- XXXIX. **Dielectric Recombination data for dynamic finite density plasmas I Goals and methodology**  
BADNEL N., O MULLANE M., SUMMERS H., ALTUN Z., BAUTISTA M., COLGAN J., GORCZYCA T., MITNIK D., PINDZOLA M., ZATSARINNY O.  
Astronomy and Astrophysics, vol.406, pp.1151-1165, 2003 (SCI-Expanded)
- XL. **Photoelectron angular distributions of ns subshells of open-shell atoms as indicators of interchannel coupling: Sc 4s photoionization**  
Altun Z., Manson S.  
PHYSICAL REVIEW A, vol.61, no.3, 2000 (SCI-Expanded)
- XLI. **Photoionization of atomic scandium in the ground state: Total cross sections and 3p → 3d resonances**  
Altun Z., Manson S.  
PHYSICAL REVIEW A, vol.59, no.5, pp.3576-3583, 1999 (SCI-Expanded)
- XLII. **PHOTOIONIZATION CROSS-SECTION CALCULATION OF ATOMIC TUNGSTEN**  
Boyle J. J., ALTUN Z., Kelly H. P.  
PHYSICAL REVIEW A, vol.47, no.6, pp.4811-4830, 1993 (SCI-Expanded)
- XLIII. **PHOTOIONIZATION CROSS-SECTION AND RESONANCE STRUCTURE OF ATOMIC SULFUR**  
ALTUN Z.  
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.25, no.10, pp.2279-2294, 1992 (SCI-Expanded)
- XLIV. **PHOTOIONIZATION OF ATOMIC BARIUM INCLUDING EFFECTS OF RELAXATION AND POLARIZATION**  
Kutzner M., ALTUN Z., KELLY H. P.  
PHYSICAL REVIEW A, vol.41, no.7, pp.3612-3623, 1990 (SCI-Expanded)
- XLV. **PHOTOIONIZATION OF ATOMIC MAGNESIUM INCLUDING DOUBLE-ELECTRON RESONANCES**  
ALTUN Z.  
PHYSICAL REVIEW A, vol.40, no.9, pp.4968-4976, 1989 (SCI-Expanded)
- XLVI. **PHOTOIONIZATION OF THE 4D SUBSHELL OF XENON**  
ALTUN Z., Kutzner M., Kelly H. P.  
PHYSICAL REVIEW A, vol.37, no.12, pp.4671-4678, 1988 (SCI-Expanded)
- XLVII. **PHOTOIONIZATION CROSS-SECTIONS WITH EXCITATION TO CA+3D AND 4P LEVELS**  
ALTUN Z., Kelly H.  
PHYSICAL REVIEW A, vol.31, no.6, pp.3711-3717, 1985 (SCI-Expanded)
- XLVIII. **PHOTO-IONIZATION CROSS-SECTION OF NEUTRAL CALCIUM INCLUDING DOUBLE ELECTRON RESONANCES**  
ALTUN Z., CARTER S. L., KELLY H. P.  
PHYSICAL REVIEW A, vol.27, no.4, pp.1943-1957, 1983 (SCI-Expanded)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. Enhancement of high-order harmonic generation from endohedrally confined atoms (Abstract No: J05.00008)  
Topçu T., Bleda E. A., Altun Z.  
DAMOP 2020, 1 - 05 June 2020, vol.65, no.4
- II. PERFORMANCE BENCHMARKS OF THREE DIFFERENT CUDA KERNEL FUNCTION IMPLEMENTATIONS FOR THE SIMULATION OF HIGH-ORDER HARMONIC GENERATION FROM ONE ELECTRON ATOM (Session 03OP42)  
OĞUZ O., ALTUN Z., BLEDA E. A.  
Turkish Physical Society 35th International Physics Congress, Bodrum, Turkey, 04 September 2019
- III. PARALLEL HIGH-ORDER HARMONIC GENERATION FROM ONE ELECTRON ATOM CODE DESIGNED TO RUN ON NO-ECC FOR DOUBLE PRECISION GPUS BASED ON TRINARY MODULAR REDUNDANCY (TMR) USING CUDA (Session 03OP41)  
OĞUZ O., ALTUN Z., BLEDA E. A.  
Turkish Physical Society 35th International Physics Congress, Bodrum, Turkey, 4 - 08 September 2019
- IV. Modeling Ultrafast Absorption Spectra by Two-photon Excitations: Charge-Transfer Donor- Acceptor Absorption Spectra and Associated Induced Back Transfer  
ALTUN Z., Trindle C.  
MQM 20199th Molecular Quantum MechanicsConference, Heidelberg, Germany, 30 June 3019 - 05 July 2019
- V. Comparing CPU based results with the results from CUDA GPUs and single-bit error analysis for HHG process (03OP9)  
OĞUZ O., ALTUN Z., BLEDA E. A.  
TFD 34, Bodrum, Turkey, 5 - 09 September 2018
- VI. THE UNCERTAINITIES IN DIELECTRONIC RECOMBINATION RATES DUE TO THE AUTOIONIZATION LEVELS (03OP68)  
OĞUZ O., BLEDA E. A., ALTUN Z.  
TFD 34, BODRUM, Turkey, 5 - 09 September 2018
- VII. Three Views of H atom in unusual Environments:AIM, ELF and NCI analysis of proposed bifurcated H bonding in cobalt phthalate,pentacoordinate H in [H<sub>2</sub>Rh<sub>13</sub>(CO)<sub>24</sub>]<sub>3</sub><sup>-</sup>, and multicoordinate H in defect sites ofMgO and ZnO (Oturum A25)  
ALTUN Z., BLEDA E. A., TRINDLE C.  
The 16th International Congress of Quantum Chemistry, Menton, France, 18 - 23 June 2018
- VIII. Electron Impact Ionization of Seq in aPlasma  
ALTUN Z.  
I. International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 December 2017
- IX. P4-Resonances in the dielectronic recombination cross sectionof Ni13  
ALTUN Z.  
INTERNATIONAL SYMPOSIUM ONCHEMISTRY ViA COMPUTATIONAPPLICATIONS ON MOLECULARNANOSCIENCE, 30 October 2017
- X. Os cation assisted transformation of acetylene to diatomichydroge (P5)  
ALTUN Z.  
INTERNATIONAL SYMPOSIUM ONCHEMISTRY ViA COMPUTATIONAPPLICATIONS ON MOLECULARNANOSCIENCE, 30 October 2017 - 30 January 2018
- XI. Improving the Efficiency of HHG Code by Partial Parallelization of the Time Propagator (Session 03OP61)  
BLEDA E. A., ALTUN Z.  
Turkish Physical Society 33. International Physics Congress, 6 - 10 September 2017, pp.244
- XII. The Interaction of the Ground and Excited States of H@C<sub>60</sub> with Strong Laser Field (Session 03OP116)  
BLEDA E. A., ALTUN Z.

- Turkish Physical Society 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.271
- XIII. **The Interaction of the Ground and Excited States of H@C<sub>60</sub> with Strong Laser Field (Session 03OP116)**  
BLEDA E. A., ALTUN Z.  
TFD 33, 6 - 09 September 2017
- XIV. **Improving the Efficiency of HHG Code by Partial Parallelization of the Time Propagator (Session 03OP61)**  
BLEDA E. A., ALTUN Z.  
TFD 33, Uluslararası Fizik Kongresi, Bodrum, Turkey, 6 - 10 September 2017
- XV. **DFT study of CH bond activation of Os, Ir, and Pt reacting with acetylene (Oturum Nu. P01-71)**  
ALTUN Z., BLEDA E. A., Trindle C.  
WATOC 2017, 27 August - 02 September 2017
- XVI. **Computational Thermochemistry of Carbamic Acid and Related Compounds**  
ALTUN Z., BLEDA E. A., TRINDLE C.  
WATOC 2017 (Oturum No: P01-114), Munich, Germany, 27 August - 01 September 2017
- XVII. **Computational Thermochemistry of Carbamic Acid and Related Compounds (Oturum Nu. P0-114)**  
ALTUN Z., BLEDA E. A., Trindle C.  
WATOC 2017, 27 August - 02 September 2017
- XVIII. **DFT Study of CH bond activation of Os, Ir, Pt reacting with acetylene**  
ALTUN Z., BLEDA E. A., TRINDLE C.  
WATOC 2017 (Oturum No: P01-71), Munich, Germany, 27 August - 01 September 2017
- XIX. **Dissociation of H<sub>2</sub> in strong inhomogeneous near-fields**  
YAVUZ İ., Ciappina M. F., Chacon A., ALTUN Z., Lewenstein M., Kling M. F.  
INTERNATIONAL CONFERENCE ON PHOTONIC ELECTRONIC AND ATOMIC COLLISIONS, 26 July - 01 August 2017
- XX. **Dielectronic Recombination Rate Coefficient of Si-like ions Ni14**  
ALTUN Z., BLEDA E. A.  
ICPEAC 2017, 26 July - 02 August 2017
- XXI. **Electron-impact ionization cross-sections and rate coefficients for the Si-like ions Se20**  
ALTUN Z., BLEDA E. A.  
ICPEAC 2017, 26 July - 02 August 2017
- XXII. **Electron-impact ionization cross-sections and rate coefficients for the Si-like ions Se20 (OTURUM NO: FR-80)**  
ALTUN Z., BLEDA E. A.  
ICPEAC2017, Queensland, Australia, 26 July - 01 August 2017
- XXIII. **Dielectronic Recombination Rate Coefficient of Si-like ions Ni14 (Oturum: FR-79)**  
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