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Personal Information

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Education Information

Doctorate, İstanbul Üniversitesi, Faculty of Science, Fizik -Aton Ve Molekül Fiziği, Turkey 1987 - 1994

Post Graduate, İstanbul Üniversitesi, Faculty of Science, Fizik Matematik, Turkey 1985 - 1987

Under Graduate, İstanbul Üniversitesi, Faculty of Science, Fizik Matematik, Turkey 1981 - 1985

Foreign Languages

German, B2 Upper Intermediate

English, B2 Upper Intermediate

Dissertations

Doctorate, Laser spektroskopisi ve interferens spektroskopisi ile Rhenium ve Platin elementlerinin izotop kaymalarının ve hiper ince yapı ayrılmalarının incelenmesi, İstanbul University, Faculty of Science, Fizik, 1994

Post Graduate, İyonize ortamda yayılan elektromagnetik dalga yörüngelerinin hesaplanması, İstanbul University, Faculty of Science, Fizik, 1987

Research Areas

Physics, Atomic and Molecular Physics, Atomic Spectra and Photon Interactions, Natural Sciences

Academic Titles / Tasks

Professor, İstanbul University, Faculty of Science, Department of Physics, 2004 - Continues

Associate Professor, İstanbul University, Faculty of Science, Department of Physics, 1998 - 2004

Assistant Professor, İstanbul University, Faculty of Science, Department of Physics, 1995 - 1998

Research Assistant, İstanbul Üniversitesi, Faculty of Science, Department of Physics, 1986 - 1995

Professional Experience

Head of Department, İstanbul Üniversitesi, Faculty of Science, Fizik, 2007 - Continues

Head of Department, İstanbul Üniversitesi, Faculty of Science, Fizik, 2008 - 2011

BAP Scientific Commissioner, İstanbul Üniversitesi, Faculty of Science, 2007 - 2009

Courses

İleri Fizik Uygulamaları, Under Graduate, 2016 - 2017, 2017 - 2018

Laser Spektroskopi, Doctorate, 2016 - 2017, 2017 - 2018

Atom Fiziğinde Hesaplama Yöntemleri I, Post Graduate, 2017 - 2018, 2018 - 2019
Titreşimler ve Akışkanlar Mekaniği, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019
Optik spektroskopi, Post Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019
Aşırı İnce Yapı, Post Graduate, 2016 - 2017, 2017 - 2018
Atom ve Molekül Fiziği, Under Graduate, 2016 - 2017, 2017 - 2018
Uzmanlık Alan Dersi, Post Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019
Atom ve Molekül Fiziği Lab, Under Graduate, 2010 - 2011, 2011 - 2012, 2012 - 2013
Laser Spejktroskopisi ve Uygulamaları, Doctorate, 2012 - 2013
Fizik Lab I, Under Graduate, 2011 - 2012, 2012 - 2013
İleri Fizik Uygulamaları, Under Graduate, 2011 - 2012, 2012 - 2013
Atomlarda Aşırı İnce Yapı, Post Graduate, 2012 - 2013
Atom Fiziğinde Hesaplama Yöntemleri I, Post Graduate, 2012 - 2013
Fizik II, Under Graduate, 2011 - 2012
Optik Spektroskopi, Post Graduate, 2012 - 2013
Termodinamik ve İstatistik Mekanik Lab, Under Graduate, 2012 - 2013

Advising Theses

BAŞAR G., Vanadyum elementinin Aşırı İnce Yapısının Laser Spektroskopik Metodlarla incelenmesi, Post Graduate, D.BİNGÖL(Student), 2017
BAŞAR G., Ho I ve Ho II'nin mor ötesi bölgede spektral çizgilerinin sınıflandırılması ve aşırı ince yapılarının incelenmesi, Doctorate, N.Jaber(Student), 2016
BAŞAR G., Atomik vanadyumun 3d34s4p konfigürasyonunda aşırı ince yapısının incelenmesi, Post Graduate, B.Yapıcı(Student), 2013
BAŞAR G., Lantan I ve Vanadium I Elementlerinin Aşırı İnce Yapılarının İncelenmesi, Doctorate, F.Güzelçimen(Student), 2012
BAŞAR G., Nb I elementinin aşırı ince yapısının incelenmesi, Doctorate, A.Er(Student), 2010
BAŞAR G., Preeclampsia Hastalığının Raman Cımbızlama Yöntemiyle İncelenmesi, Post Graduate, Ş.Şeninak(Student), 2010
BAŞAR G., Raman Cımbızlama Spektrometresi Kullanılarak Tekil Biyolojik Hücrelerdeki Farklılıkların Çok Değişkenli Analiz Yöntemi ile Saptanması, Post Graduate, U.Parlatan(Student), 2010
BAŞAR G., Manganez I elementinin tek konfigürasyonlarındaki ince ve aşırı ince yapılarının incelenmesi, Post Graduate, F.Güzelçimen(Student), 2007
BAŞAR G., Lantan elementinin ince ve aşırı ince yapısının incelenmesi, Post Graduate, A.Er(Student), 2006
BAŞAR G., Kr elementinin ince ve aşırı ince yapısının incelenmesi, Post Graduate, S.KAMAL(Student), 2005
BAŞAR G., Manganez I ve skandiyum I elementlerinin ince yapı ve aşırı ince yapılarının incelenmesi, Doctorate, İ.Kanat(Student), 2003

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

- **New energy levels of atomic lanthanum with small total angular momentum quantum number discovered by laser spectroscopic methods in the near IR**
Kanat Öztürk İ., Başar G., Başar G., Özalgıç B., Bingöl D., Güzelçimen F., Windholz L., Kröger S.
Journal Of Quantitative Spectroscopy & Radiative Transfer, no.107100, pp.1-5, 2020 (Journal Indexed in SCI)
- **Laser spectroscopic investigation of atomic holmium in the wavelength range from 780 nm to 830 nm: Hyperfine structure measurements and a new energy level**
Başar G., Başar G., Özalgıç B., Kanat Öztürk İ., Güzelçimen F., Bingöl D., Kröger S.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.243, 2020 (Journal Indexed in SCI)
- **Hyperfine Structure Analysis of Atomic Holmium in an FT Spectrum in the Visible Spectral Range**
Ozalgic B., Basar G., Kroeger S.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.244, 2019 (Journal Indexed in SCI)

- **Line Identification of Atomic and Ionic Spectra of Holmium in the Visible Spectral Range. II. Spectrum of Ho II and Ho III**
 Ozdalgic B., BAŞAR G., GÜZELÇİMEN F., Oztürk İ., AK T., BİLİR S., Tamanis M., Ferber R., Kroeger S.
 ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.240, 2019 (Journal Indexed in SCI)
- **Line Identification of Atomic and Ionic Spectra of Holmium in the Visible Spectral Range. I. Spectrum of Ho I**
 Ozdalgic B., Guzelcimen F., Ozturk I. K. , Kroeger S., Kruzins A., Tamanis M., Ferber R., Basar G.
 ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.240, 2019 (Journal Indexed in SCI)
- **Sorting of micron-sized particles using holographic optical Raman tweezers in aqueous medium**
 Parlatan U., Basar G., Başar G.
 JOURNAL OF MODERN OPTICS, vol.66, pp.228-234, 2019 (Journal Indexed in SCI)
- **Hyperfine structure measurements of neutral vanadium by inter-modulated laser-induced fluorescence spectroscopy in the wavelength range from 800 nm to 830 nm**
 Basar G., Guzelcimen F., Ozturk İ., Bingol D., Kroger S., Basar G.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.219, pp.1-6, 2018 (Journal Indexed in SCI)
- **New energy levels of atomic niobium (Nb I) discovered by laser-spectroscopic investigations**
 Kroger S., Windholz L., Basar G., Basar G.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.212, pp.24-31, 2018 (Journal Indexed in SCI)
- **Revised energy energy levels of singly ionized lanthanum**
 Guzelcimen F., Tonka M., Uddin Z., Bhatti N. A. , Windholz L., Kroeger S., Basar G.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.211, pp.188-199, 2018 (Journal Indexed in SCI)
- **Hyperfine structure measurements of neutral vanadium by laser-induced fluorescence spectroscopy in the wavelength range from 750 nm to 860 nm**
 Basar G., Guzelcimen F., Ozturk I. K. , Er A., Bingol D., Kroeger S., Basar G.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.202, pp.193-199, 2017 (Journal Indexed in SCI)
- **Line Identification of Atomic and Ionic Spectra of Holmium in the Near-UV. Part I. Spectrum of Ho I**
 Al-Labady N., Ozdalgic B., Er A., Guzelcimen F., Ozturk I. K. , Kroeger S., Kruzins A., Tamanis M., Ferber R., Basar G.
 ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.228, 2017 (Journal Indexed in SCI)
- **Line Identification of Atomic and Ionic Spectra of Holmium in the Near-UV. II. Spectra of Ho II and Ho III**
 BAŞAR G., Al-Labady N., Ozdalgic B., GÜZELÇİMEN F., ER A., Ozturk İ., AK T., BİLİR S., Tamanis M., Ferber R., et al.
 ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.228, 2017 (Journal Indexed in SCI)
- **New even and odd parity fine structure levels of La I discovered by means of laser-induced fluorescence spectroscopy**
 Basar G., Gamper B., Guzelcimen F., Ozturk I. K. , Binder T., Basar G., Kroger S., Windholz L.
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.187, pp.505-510, 2017 (Journal Indexed in SCI)
- **HIGH-RESOLUTION FOURIER TRANSFORM SPECTROSCOPY OF Nb I IN THE NEAR-INFRARED**
 Er A., Guzelcimen F., Basar G., Ozturk İ., Tamanis M., Ferber R., Kroeger S.
 ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.221, 2015 (Journal Indexed in SCI)
- **Investigation of the hyperfine structure of weak atomic Vanadium lines by means of Fourier transform spectroscopy**
 Guzelcimen F., Er A., Öztürk İ., Başar G., KROEGER S., TAMANIS M., FERBER R.
 JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.48, 2015 (Journal Indexed in SCI)
- **Parametric study of the fine and hyperfine structure for the even parity configurations of atomic niobium**
 Dembczynski J., Elantkowska M., Ruczkowski J., Öztürk İ., Er A., Güzelçimen F., Başar G., Kroger S.
 JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.48, 2015 (Journal Indexed in

SCI)

- **New energy levels of atomic niobium by laser induced fluorescence spectroscopy in the near infrared**
Ozturk İ., Basar G., Er A., Guzelcimen F., Basar G., Kroger S.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.48, 2015 (Journal Indexed in SCI)
- **Transition probabilities of neutral scandium**
Öztürk İ., Celik G., Gokce Y., ATALAY B., Guzelcimen F., Er A., Başar G., Kröger S.
CANADIAN JOURNAL OF PHYSICS, vol.92, pp.1425-1429, 2014 (Journal Indexed in SCI)
- **HYPERFINE STRUCTURE CONSTANTS OF ENERGETICALLY HIGH-LYING LEVELS OF ODD PARITY OF ATOMIC VANADIUM**
Güzelçimen F., Yapici B., Demir G., Er A., Ozturk İ., Başar G., Kroeger S., Tamanis M., Ferber R., Docenko D., et al.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.214, 2014 (Journal Indexed in SCI)
- **HIGH-RESOLUTION FOURIER TRANSFORM SPECTROSCOPY OF LANTHANUM IN Ar DISCHARGE IN THE NEAR-IR**
Guzelcimen F., Basar G., Tamanis M., Kruzins A., Ferber R., Windholz L., Kroeger S.
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.208, 2013 (Journal Indexed in SCI)
- **Hyperfine structure investigations of atomic niobium with optogalvanic and laser-induced fluorescence spectroscopy in the near-infrared wavelength range**
BAŞAR G., Başar G., Ozturk İ., ER A., GÜZELÇİMEN F., Kroeger S.
ASTRONOMY & ASTROPHYSICS, vol.556, 2013 (Journal Indexed in SCI)
- **New energy levels and hyperfine structure measurements of neutral lanthanum by laser-induced fluorescence spectroscopy**
Guzelcimen F., Siddiqui I., Başar G., Kroeger S., Windholz L.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.45, 2012 (Journal Indexed in SCI)
- **Hyperfine structure of the 3d(3)4s4p (6)G multiplet of atomic vanadium**
Güzelçimen F., Başar G., Ozturk İ., Kroeger S., Ferber R., Jarmola A., Tamanis M., Başar G.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.44, 2011 (Journal Indexed in SCI)
- **Hyperfine structure study of atomic niobium with enhanced sensitivity of Fourier transform spectroscopy**
Er A., Öztürk İ., Başar G., Kroeger S., Jarmola A., Ferber R., Tamanis M.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.44, 2011 (Journal Indexed in SCI)
- **Hyperfine structure measurements of neutral niobium with Fourier transform spectroscopy**
Kroeger S., ER A., Ozturk İ., BAŞAR G., Jarmola A., Ferber R., Tamanis M., Zacs L.
ASTRONOMY & ASTROPHYSICS, vol.516, 2010 (Journal Indexed in SCI)
- **Hyperfine structure investigation of Os-187 atomic levels via optical-optical double resonance**
Başar G., Basar G., Kroeger S., Guthoehrlein G. H.
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS, vol.43, 2010 (Journal Indexed in SCI)
- **Studies on kyotorphin and D-kyotorphin in aqueous solution by Raman spectroscopy**
Akyuz S., Basar G., Başar G., Kin S., Kroeger S.
JOURNAL OF MOLECULAR STRUCTURE, vol.924, pp.42-46, 2009 (Journal Indexed in SCI)
- **High resolution measurements of the hyperfine structure of atomic Lanthanum for energetically low lying levels of odd parity**
Basar G., Basar G., Kroeger S.
OPTICS COMMUNICATIONS, vol.282, pp.562-567, 2009 (Journal Indexed in SCI)
- **High-resolution laser spectroscopy of the hyperfine structure of high-lying levels of NbI**
Basar G., Basar G., Bayram S. B. , Kroeger S.
PHYSICA SCRIPTA, vol.78, 2008 (Journal Indexed in SCI)
- **Vibrational spectroscopic study of two dimensional polymer compounds of pyrazinamide**

Akyüz S., Andreeva L., Minceva-Sukarova B., Basar G.

JOURNAL OF MOLECULAR STRUCTURE, vol.834, pp.399-402, 2007 (Journal Indexed in SCI)

- **Hyperfine structure investigation of ScI, part II: theoretical studies of the odd configurations**
Oeztuerk İ., Acar F. G. , Basar G., Basar G., Kroeger S.
PHYSICA SCRIPTA, vol.75, pp.624-629, 2007 (Journal Indexed in SCI)
- **Experimental hyperfine structure investigation of atomic La**
Basar G., Basar G., Er A., Kroeger S.
PHYSICA SCRIPTA, vol.75, pp.572-576, 2007 (Journal Indexed in SCI)
- **Fine and hyperfine structure in the atomic spectrum of niobium**
Kroeger S., Ozturk İ., Acar F. G. , Basar G., Basar G., Wyart J. -.
EUROPEAN PHYSICAL JOURNAL D, vol.41, pp.61-70, 2007 (Journal Indexed in SCI)
- **Hyperfine structure investigation of Mn I - Part II: Theoretical studies of the odd configurations**
Acar F., Basar G., Basar G., Ozturk I., Kroger S.
PHYSICA SCRIPTA, vol.71, pp.245-250, 2005 (Journal Indexed in SCI)
- **Hyperfine structure of high lying levels of TmI**
Basar G., Basar G., Ozturk I., Acar F., Kroger S.
PHYSICA SCRIPTA, vol.71, pp.159-162, 2005 (Journal Indexed in SCI)
- **Experimental investigation of the hyperfine structure and theoretical studies of the even configurations of Sc I**
Basar G., Basar G., Acar F., Ozturk I., Kroger S.
PHYSICA SCRIPTA, vol.69, pp.189-195, 2004 (Journal Indexed in SCI)
- **Hyperfine structure investigations of MnI - Part I: Experimental and theoretical studies of the hyperfine structure in the even configurations**
Basar G., Basar G., ACAR G., Ozturk I., KROGER S.
PHYSICA SCRIPTA, vol.67, pp.476-484, 2003 (Journal Indexed in SCI)
- **Hyperfine structure and isotope shift of osmium I**
Kroger S., Basar G., Baier A., Guthohrlein G.
PHYSICA SCRIPTA, vol.65, pp.56-68, 2002 (Journal Indexed in SCI)
- **Parametric investigation of the isotope shift in odd configurations of Ne I**
Basar G., Basar G., Buttgenbach S., Kroger S., Kronfeldt H.
ZEITSCHRIFT FUR PHYSIK D-ATOMS MOLECULES AND CLUSTERS, vol.39, pp.283-289, 1997 (Journal Indexed in SCI)
- **FT-IR and laser Raman spectroscopic investigation of transition metal halide complexes of benzidine**
Akyuz S., Bulat T., Ozel A., Basar G.
Vibrational Spectroscopy, vol.14, pp.151-154, 1997 (Journal Indexed in SCI Expanded)
- **Isotope Shift Investigations in the Configurations 5d 9nl and 5d 8nl'n'l' of Pt I**
Başar G., Kronfeldt H. D.
Physica Scripta, vol.51, pp.227-232, 1995 (Journal Indexed in SCI)

Articles Published in Other Journals

- **FINE STRUCTURE ANALYSIS OF EVEN-PARITY CONFIGURATION SYSTEM OF Rh III**
GÜZELÇİMEN F., BAŞAR G.
Balkan Physics Letters, vol.24, no.241024, pp.203-211, 2016 (Refereed Journals of Other Institutions)
- **LANDÉ g-FACTORS FOR EVEN-PARITY ENERGY LEVELS OF DOUBLY IONIZED SILVER**
GÜZELÇİMEN F., BAŞAR G.
Balkan Physics Letters, vol.24, no.241020, pp.168-173, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **Classification of Spectral Lines of the Holmium in the Near Infrared**
KANAT ÖZTÜRK İ., Ashiba S., GÜZELÇİMEN F., Özdalgiç B., Kröger S., BAŞAR G.

TFD34, Muğla, Turkey, 5 - 09 September 2018, pp.1

- **Line Identification of Atomic Holmium**

Özdoğan B., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Kröger S., BAŞAR G.

TFD34, Muğla, Turkey, 5 - 09 September 2018, pp.1

- **"Line Classification of Ho II and Ho III by means of Fourier Transform Spectroscopy from 317 to 400 nm**

BAŞAR G., Al-Labady N., GÜZELÇİMEN F., OZTURK I. K., ER A., Özdoğan B., AK T., BİLİR S., Kröger S., Tamanis M., et al.

Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.565

- **Line Classification of Atomic Holmium by means of Fourier Transform Spectroscopy from 317 to 400 nm**

BAŞAR G., Al-Labady N., GÜZELÇİMEN F., OZTURK I. K., ER A., Özdoğan B., AK T., BİLİR S., Kröger S., Tamanis M., et al.

Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.565

- **Hyperfine Structure of Atomic Holmium by Fourier Transform Spectroscopy in the UV Spectral Range**

BAŞAR G., Al-Labady N., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Özdoğan B., Kröger S., Kruzins A., Tamanis M., Ferber R.

TFD33, Muğla, Turkey, 6 - 10 September 2017, pp.1

- **Laser Spectroscopic Measurements of Atomic Vanadium in the Red Wavelength Range**

Başar G., BAŞAR G., GÜZELÇİMEN F., KANAT ÖZTÜRK İ., ER A., Bingöl D., Kröger S.

Turkish Physical Society 33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.563

- **The Hyperfine Structure Investigation of V I Lines with Doppler-Reduced Laser Spectroscopic Method**

BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Bingöl D., Kröger S., Başar G.

Conference of the European Group on Atomic Systems (EGAS49), Durham, United Kingdom, 17 - 21 July 2017, pp.1

- **Hyperfine Structure Investigation of Vanadium by Using Saturation Absorption Spectroscopy**

BİNGÖL D., BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Kröger S., BAŞAR G.

Turkish Physical Society 32th International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.276

- **Inter Modulated Laser-Induced Fluorescence Spectroscopy Measurements of Vanadium-Neon Plasma**

BİNGÖL D., BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Kröger S., BAŞAR G.

Turkish Physical Society 32th International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.277

- **Laser Induced Fluorescence Spectroscopy of Atomic Vanadium in the Wavelength Range of 760 nm to 840 nm**

BAŞAR G., BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., ER A., Kröger S.

12th European Conference on Atoms Molecules and Photons (ECAMP12), Frankfurt, Germany, 5 - 09 September 2016, pp.321

- **Investigation of Hyperfine Structure of Atomic Holmium**

BAŞAR G., Al-Labady N., Yapıcı B., GÜZELÇİMEN F., ER A., KANAT ÖZTÜRK İ., Kröger S., Kruzins A., Tamanis M., Ferber R.

12th European Conference on Atoms Molecules and Photons (ECAMP12), Frankfurt, Germany, 5 - 09 September 2016, pp.59

- **New Even-Parity Energy Levels of Atomic Lanthanum**

GÜZELÇİMEN F., ER A., KANAT ÖZTÜRK İ., BAŞAR G., Kröger S., Siddiqui İ., Windholz L.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.368

- **Experimental Hyperfine Structure Analysis of Atomic Niobium Using Laser Induced Fluorescence Spectroscopy**

ER A., GÜZELÇİMEN F., KANAT ÖZTÜRK İ., Siddiqui İ., Windholz L., Kröger S., BAŞAR G.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.362

- **Hyperfine Structure constants of even and odd parity levels of atomic Cobalt**

BAŞAR G., BAŞAR G., Kröger S.

9 th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.344

- **New Energy Levels of Atomic Niobium**

BAŞAR G., Kröger S., KANAT ÖZTÜRK İ., ER A., GÜZELÇİMEN F., Başar G.

International Conference on Atomic and Molecular Data and Their Applications ICAMDATA, Jena, Germany, 21 - 25 September 2014, pp.1

- **Extension Of The Data For Magnetic Dipole Hyperfine Structure Constants Of Vanadium I Levels**
GÜZELÇİMEN F., BAŞAR G., KANAT ÖZTÜRK İ., ER A., Kröger S., Tamanis M., Ferber R.
Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 - 24 July 2014, pp.1
- **Determination of New Transitions of Atomic Niobium in the Near-Infrared**
ER A., BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Tamanis M., Ferber R., Kröger S.
Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 - 24 July 2014, pp.1
- **Theoretical Investigation of Fine Structure of Neutral Lanthanum**
KANAT ÖZTÜRK İ., ER A., GÜZELÇİMEN F., BAŞAR G.
Turkish Physical Society 31th International Physics Congress, Muğla, Turkey, 21 - 24 July 2014, pp.1
- **Investigation of the Hyperfine Structure of Atomic Vanadium for Energetically High-lying levels up to 45000 cm⁻¹**
GÜZELÇİMEN F., Al-Labady N., BAŞAR G., KANAT ÖZTÜRK İ., ER A., Kröger S., Tamanis M., Ferber R.
46th Conference Of The European Group On Atomic Systems (EGAS 46), Lille, France, 1 - 04 July 2014, pp.82
- **Theoretical oscillator strengths for the Sc I**
KANAT ÖZTÜRK İ., Atalay B., Çelik G., GÜZELÇİMEN F., ER A., BAŞAR G., Kröger S.
46th Conference Of The European Group On Atomic Systems (EGAS 46), Lille, France, 1 - 04 July 2014, pp.83
- **Confirmation of New Even-parity Energy Levels of La I by Laser-Induced Fluorescence Spectroscopy**
BAŞAR G., BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., ER A., Kröger S., Windholz L.
46th Conference Of The European Group On Atomic Systems (EGAS 46), Lille, France, 1 - 04 July 2014, pp.74
- **Investigation of Fourier Transform Spectrum of Niobium in Argon Discharge in the near-infrared**
ER A., BAŞAR G., KANAT ÖZTÜRK İ., GÜZELÇİMEN F., Tamanis M., Ferber R., Kröger S.
46th Conference Of The European Group On Atomic Systems (EGAS 46), Lille, France, 1 - 04 July 2014, pp.81
- **Fourier Transform Spectroscopy of Niobium in the Infrared Region**
ER A., ÖZTÜRK İ., BAŞAR G., Kröger S., Ferber R., Tamanis M.
Turkish Physical Society 30th International Physics Conference, İstanbul, Turkey, 2 - 05 September 2013
- **Experimental Hyperfine Structure Investigation of Atomic Nb**
ÖZTÜRK İ., BAŞAR G., Başar G., ER A., GÜZELÇİMEN F., Kröger S.
Turkish Physical Society 30th International Physics Conference, İstanbul, Turkey, 2 - 05 September 2013
- **Hyperfine Structure Investigation of V I lines with Fourier Transform Spectroscopy**
GÜZELÇİMEN F., BAŞAR G., ÖZTÜRK İ., Kröger S., Ferber R., Tamanis M., Başar G.
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, pp.1
- **Calculation of Oscillator Strengths For Neutral Manganese**
Atalay B., KANAT ÖZTÜRK İ., Gökçe Y., Çelik G., BAŞAR G., Yıldız M.
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- **Investigation of the Hyperfine-Resolved Spectrum of Lanthanum by Fourier-Transform and Laser Spectroscopy**
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GÜZELÇİMEN F., BAŞAR G., BAŞAR G., KRÖGER S., ER A., KANAT ÖZTÜRK İ., Project Supported by Higher Education Institutions, Holmiyum Elementinin Kırmızı Spektral Bölgedeki Aşırı İnce Yapısının İncelenmesi, 2015 - 2017

BAŞAR G., Project Supported by Higher Education Institutions, An experimental and theoretical IR and Raman spectroscopic study on isonicotineamide and its ZnCl₂ and ZnBr₂ complexes, 2009 - 2009

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Memberships / Tasks in Scientific Organizations

Türk Fizik Demeği, Member, 2012 - Continues

Invited Congress and Symposium Activities

Turkish Physical Society 34 International Physics Congress, Attendee, Turkey, 2018

Conference of the European Group on Atomic Systems (EGAS49), Attendee, United Kingdom, 2017

Turkish Physical Society 32th International Physics Congress, Attendee, Turkey, 2016

12th European Conference on Atoms Molecules and Photons (ECAMP12), Attendee, Germany, 2016

9th International Physics Conference of the Balkan Physical Union, Attendee, Turkey, 2015

International Conference on Atomic and Molecular Data and Their Applications ICAMDATA, Attendee, Germany, 2014

46th Conference Of The European Group on Atomic Systems (EGAS 46), Attendee, France, 2014

Turkish Physical Society 31th International Physics Congress, Attendee, Turkey, 2014

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11th EUROPEAN CONFERENCE ON ATOMS, MOLECULES AND PHOTONS (ECAMP11), Attendee, Aarhus, Denmark, 2013

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44th Conference of the European Group on Atomic Systems, Attendee, Isparta, Sweden, 2012

44th EGAS Conference, Attendee, Göteborg, Sweden, 2012

43rd Congress of the European Group on Atomic Systems (EGAS), Attendee, Fribourg, Switzerland, 2011

Turkish Physical Society 27th International Physics Conference, Attendee, İstanbul, Turkey, 2010

22nd International Conference on Raman Spectroscopy (ICORS), Attendee, Boston, United States Of America, 2010

10th European Conference on Atoms Molecules and Photons ECAMP X, Attendee, Salamanca, Spain, 2010

Turkish Physical Society 26th International Physics Conference, Attendee, Bodrum/Muğla, Turkey, 2009

41st EGAS Conference, European Group for Atomic Spectroscopy, Attendee, Gdansk, Poland, 2009

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62nd International Symposium on Molecular Spectroscopy, Attendee, Columbus, United States Of America, 2007
9th European Conference on Atoms Molecules and Photons (ECAMP), Attendee, Girit, Greece, 2007
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38th EGAS Conference, European Group for Atomic Spectroscopy, Attendee, Napoli, Italy, 2006
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34nd European Group for Atomic Spectroscopy (EGAS) Conference, Attendee, Sofya, Bulgaria, 2002
The Seventh European Conference on Atomic and Molecular Physics (ECAMP) VII, Attendee, Berlin, Germany, 2001
32nd European Group for Atomic Spectroscopy (EGAS) Conference, Attendee, Vilnius, Lithuania, 2000
10. Norddeutscher Lasertag, Attendee, Hamburg, Germany, 1999
31st European Group for Atomic Spectroscopy (EGAS) Conference, Attendee, Marsilya, France, 1999
International Symposium on Lasers, Atomic and Molecular Physics (LAMP), Attendee, İstanbul, Turkey, 1997
28th European Group for Atomic Spectroscopy (EGAS) Conference, Attendee, Graz, Austria, 1996
5th European Conference on Atomic and Molecular Physics (ECAMP), Attendee, Edinburg, United Kingdom, 1995
Der Deutschen Physikalischen Gesellschaft (DPG) Physikertagung FA-Atomphysik, Attendee, Hamburg, Germany, 1994
XXVI. European Group for Atomic Spectroscopy (EGAS) Conference, Attendee, Barselona, Turkey, 1994
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