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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik Eğitimi (Dr), Turkey 1988 - 1992

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1985 - 1987

Undergraduate, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Serbest elektron laserinde klasik ve kuantum mekaniksel kazanç hesapları, Gazi University, Fen Bilimleri Enstitüsü, Fizik Eğitimi (Dr), 1992

Postgraduate, Charmonium için potansiyel model, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1987

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2013 - Continues

Associate Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2005 - Continues

Courses

Bilgisayar Programlama I, Undergraduate, 2013 - 2014

Temel Fizik I, Undergraduate, 2013 - 2014

İşletim Sistemleri, Undergraduate, 2013 - 2014

Kuantum Mekaniği II, Postgraduate, 2013 - 2014

Termodinamik, Undergraduate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

1. Analytical treatments for magnetic multipole moment integrals

Yukcu S. A., YÜKÇÜ N., Öztekin E.

CHEMICAL PHYSICS LETTERS, vol.771, 2021 (SCI-Expanded)

II. New representations for Gaunt coefficients

Yukcu S. A., YÜKÇÜ N., Öztekin E.

CHEMICAL PHYSICS LETTERS, vol.735, 2019 (SCI-Expanded)

III. Evaluation of One-Electron Basic Integrals of Irregular Solid Harmonics and Slater-Type Orbitals Using Fourier Transforms

AKDEMİR S., YÜKÇÜ N., Öztekin E.

ELECTRON CORRELATION IN MOLECULES - AB INITIO BEYOND GAUSSIAN QUANTUM CHEMISTRY, vol.73, pp.183-195, 2016 (SCI-Expanded)

IV. Strategies on the evaluation of binomial coefficients for all integers

Yukcu N., Öztekin E.

COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS, vol.53, no.1, pp.1-7, 2013 (SCI-Expanded)

V. Experimental and density functional theory studies on (E)-2-[(2-(hydroxymethyl)phenylimino)methyl]benzene-1,4-diol

Alpaslan Y. B., Alpaslan G., Alaman Ağar A., Ocak İskeleli N., Öztekin E.

JOURNAL OF MOLECULAR STRUCTURE, vol.995, no.1-3, pp.58-65, 2011 (SCI-Expanded)

VI. Experimental and Semi-Empirical and DFT Computational Studies on (E)-2-[(2,4-Dichlorophenylimino) methyl]-p-cresol

Alpaslan Y. B., Suleymanoglu N., Öztekin E., Ersahin F., Ağar E., Isik S.

JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.40, no.11, pp.950-956, 2010 (SCI-Expanded)

VII. Analytical and numerical treatment of auxiliary function $B_m^{\prime} m_j(\beta)$ for finite rotation matrix elements

Öztekin E.

JOURNAL OF MATHEMATICAL CHEMISTRY, vol.46, no.2, pp.448-458, 2009 (SCI-Expanded)

VIII. Analytical evaluation for two-center nuclear attraction integrals over Slater type orbitals by using Fourier transform method

Özcan S., Öztekin E.

JOURNAL OF MATHEMATICAL CHEMISTRY, vol.45, no.4, pp.1153-1165, 2009 (SCI-Expanded)

IX. Overlap integrals between irregular solid harmonics and STOs via the Fourier transform methods

Öztekin E., Özcan S.

JOURNAL OF MATHEMATICAL CHEMISTRY, vol.42, no.3, pp.337-351, 2007 (SCI-Expanded)

X. Calculation of nuclear-attraction and modified overlap integrals using Gegenbauer coefficients

Öztekin E., Özcan S., Orbay M., Yavuz M.

International Journal of Quantum Chemistry, vol.90, no.1, pp.136-143, 2002 (SCI-Expanded)

XI. Formulas and numerical table for the radial part of overlap integrals with the same screening parameters of Slater-type orbitals

Öztekin E., Yavuz M., Atalay Ş.

Theoretical Chemistry Accounts, vol.106, no.4, pp.264-270, 2001 (SCI-Expanded)

XII. Calculations of overlap integrals using recurrence-based algorithms

Öztekin E., Yavuz M., Atalay M.

Journal of Molecular Structure: THEOCHEM, vol.544, no.1-3, pp.69-77, 2001 (SCI-Expanded)

XIII. Computation of molecular integrals over Slater-type orbitals. Part VI. Calculation of overlap integrals with the same screening parameters using Gegenbauer coefficients

Guseinov I., Öztekin E., Hüseyin S.

Journal of Molecular Structure: THEOCHEM, vol.536, no.1, pp.59-63, 2001 (SCI-Expanded)

XIV. EPR of UV photolyzed tetramethylammonium acetate and tributyltin acetate powders

Öztekin E., Yavuz M., Kalkan H.

Spectroscopy Letters, vol.34, no.5, pp.639-646, 2001 (SCI-Expanded)

XV. EPR studies of VO_2^+ in $Ba(ClO_4)_2 \cdot 3H_2O$ single crystals

Yavuz M., Kalkan H., Bulut A., Atalay Ş., Öztekin E.

Articles Published in Other Journals

- I. **The Angular Distribution of Radiated Power for Electrons in a Helical Magnetic Field**
ÖZTEKİN E., YAVUZ M., ATALAY Ş.
BULLETIN OF PURE & APPLIED SCIENCES - PHYSICS, vol.19, no.2, pp.151-158, 2000 (Peer-Reviewed Journal)
- II. **Free electron lasers as a communaciton Source**
ORBAY M., ÖZDOĞAN T., KARA M., ÖZTEKİN E.
Bulletin Pure and Applied Sciences, vol.19, no.2, pp.111-114, 2000 (Peer-Reviewed Journal)
- III. **The angular distribution of radiated power for electrons in helical magnetic field**
ÖZTEKİN E., YAVUZ M., ATALAY Ş.
Bulletin Pure and Applied Sciences, vol.19, no.2, pp.151-158, 2000 (Peer-Reviewed Journal)
- IV. **The second order perturbation solution and gain for free electron lasers**
ORBAY M., KARA M., ÖZTEKİN E.
Bulletin Pure and Applied Sciences, vol.18, no.2, pp.165-169, 1999 (Peer-Reviewed Journal)
- V. **EPR study of gamma irradiet RBCLO4 single cyrstals**
YAVUZ M., BULUT A., KALKAN H., ÖZTEKİN E.
ARI, vol.51, no.6, pp.10, 1998 (Peer-Reviewed Journal)
- VI. **The effects of the transverse momentum spread for free electron lasers**
ÖZTEKİN E.
OMU Fen Dergisi, vol.6, no.1, pp.202-211, 1995 (Peer-Reviewed Journal)
- VII. **Serbest elektron laser için kuantum mekaniksel hareket denklemi ve çözümleri**
ORBAY M., ÖZTEKİN E.
OMU Fen Dergisi, vol.6, no.1, pp.151-160, 1995 (Peer-Reviewed Journal)
- VIII. **The spontaneous emission from perfect linear Trajectories**
Kelek E., SARAÇOĞLU H., Öztürk H., ÖZTEKİN E.
Proc. Supp. of Balkan Physics Letters, vol.2, pp.1173-1177, 1994 (Peer-Reviewed Journal)
- IX. **The spontaneous emission from perfect helical Trajectories**
SARAÇOĞLU H., Kelek E., Öztürk H., ÖZTEKİN E.
Proc. Supp. Balkan Phys. Lett, vol.2, pp.1178-1182, 1994 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Kuantum Fiziğine Giriş Problemleri**
Dikici M., ÖZTEKİN E., AYDIN A.
Ondokuz Mayıs Üniversitesi Yayınları, Yayın no: 100, 1996

Refereed Congress / Symposium Publications in Proceedings

- I. **4 2 metil 3 nitrofenil imino metil benzen 1 2 3 triol Bileşiğinin Spektroskopik ve Kuramsal Yöntemlerle İncelenmesi**
BİNGÖL ALPASLAN Y., SABA T., AĞAR E., KARABIYIK H., ESERCİ H., ÖZTEKİN E.
21. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 25 December 2015
- II. **Experimental and Semi empirical and DFT Computational Studies on E 2 2 morpholinoethylimino methyl 4 nitrophenolate**
BİNGÖL ALPASLAN Y., AĞAR E., ERŞAHİN F., OCAK İSKELELİ N., ÖZTEKİN E.

Turkish Physical Society 26th International Physics Congress, Turkey, 24 - 27 September 2009

- III. **E 2 2 4 diklorofenilimino metil p kresol molekülün Deneysel ve Kuramsal Analiz Çalışması**
BİNGÖL ALPASLAN Y., SÜLEYMANOĞLU N., ÖZTEKİN E., AĞAR E., IŞIK Ş.
15. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 07 November 2008