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Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik, Turkey Continues

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik, Turkey Continues

Undergraduate, Ataturk University, Fen-Edebiyat Fakültesi, Fizik, Turkey Continues

Research Areas

Physics, Atomic and Molecular Physics

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

- I. **Synthesis, crystal structure, Hirshfeld surface analysis, spectral characterizations and quantum computational assessments of 1-hydroxy-3-methyl-11H-pyrido[2,1-b]quinazolin-11-one**
Lahmidi S., SERT Y., ŞEN F., El Hafi M., Ettahiri W., GÖKCE H., Essassi E. M. , Mague J. T. , UCUN F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1249, 2022 (Journal Indexed in SCI)
- II. **A research on structural vibrational, surface characterization of 2-methyl-3-{5-methyl-[1,2,4]triazolo[1,5-a]pyrimidin-7-yl}-4H-pyrido[1,2-a]pyrimidin-4-one hydrate: SCXRD, FT-IR, MEP, Hirshfeld and molecular docking studies**
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Articles Published in Other Journals

- I. **Global Reaktiflik Parametreleri ve Bazı Spektral Sonuçlarla Polipropilenin Zincir Uzunluğuna Bağlı Kimyasal Reaktifliği**
Akn T., UCUN F., TOKATLI A.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, 2018 (Refereed Journals of Other Institutions)
- II. **Phemical Reactivity Behavior of Polyethylene and Polyacetylene Depending on Number of Unit via Global Reactivity Parameters and Some Spectral Results**
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International Journal of Scientific Research in Science, Engineering and Technology, vol.4, no.10, pp.22-29, 2018 (Refereed Journals of Other Institutions)
- III. **Binding Energy and Stability Calculations on Hydrogenated Forms of Substituted Carbazoles as Hydrogen Storage Materials**
KARAKAYA M., UCUN F.
INTERNATIONAL JOURNAL of ENGINEERING TECHNOLOGIES, vol.3, no.4, pp.202-206, 2017 (Other Refereed National Journals)

- IV. **Su ve Benzen Çözeltilerinde 5 5 Dimetil 1 Pirolin N Oksit in Bazı Radikal Ürünlerinin Teorik İnce Yapı Çiftlenim Sabitleri**
KARAKAYA M., Nardalı Ş., UCUN F.
SDU Journal of Science (E-Journal), vol.11, no.2, pp.61-74, 2016 (Other Refereed National Journals)
- V. **H2 Anion Interactions and Energy Calculations for Imidazolium based Ionic Liquids as Hydrogen Storage Materials**
KARAKAYA M., UCUN F.
International Journal of Engineering Technologies, IJET, vol.2, no.1, pp.1, 2016 (Refereed Journals of Other Institutions)
- VI. **Theoretical Structural and Spectral Analyses of TEMPO Radical Derivatives of Fullerene**
UCUN F., KAYA S., OTURAK H.
Journal of Physical and Theoretical Chemistry, vol.13, no.1, pp.25-34, 2016 (Refereed Journals of Other Institutions)
- VII. **Investigation of Variations of Isotropic g and A Values with Orientation of Trapped O2 N2 and Cl2 Radicals in KCl and NaCl Crystals**
UCUN F., Kaya S.
Journal of Physical and Theoretical Chemistry, vol.13, no.2, pp.201-208, 2016 (Refereed Journals of Other Institutions)
- VIII. **Benzen ve Su Çözeltilerinde alpha Fenil N Tert Bütil Nitronun Bazı Radikal Ürünlerinin Teorik Optimize Yapıları ve İnce Yapı Çiftlenim Sabitleri**
UCUN F., Gürkan Aydın S.
Süleyman Demirel University Journal of Science (e-journal), vol.10, no.1, pp.54-61, 2015 (Other Refereed National Journals)
- IX. **Ground State Hydrogen Conformations and Vibrational Analysis of Isomers of Dihydroxyanthraquinone by Density Functional Theory Calculation**
UCUN F., SAĞLAM A., Delta E.
JSM CHEM, vol.3, no.1, pp.1015, 2015 (Refereed Journals of Other Institutions)
- X. **Theoretical Study of Vibrational Frequencies and Chemical Shifts of Choline Halides (F,Cl,Br)**
KARAKAYA M., UCUN F., TOKATLI A., Bahçeli S.
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- XI. **CaA NaX ve ZSM 5 Zeolitlerine Adsorbe Edilmiş 2 ve 4 Triflorometilbenzaldehydlerin Kırmızıaltı Spektroskopisi**
ÖZTÜRK N., UCUN F., BAHÇELİ S.
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- XII. **Molecular Structure and Vibrational Frequencies of N Aminophthalimide**
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Refereed Congress / Symposium Publications in Proceedings

- I. **THEORETICAL INVESTIGATION OF X-METHOXY-3,4-DIHYDRONAPHTHALEN-1(2H)-ONE MOLECULES BY DENSITY FUNCTIONAL THEORY (DFT) CALCULATIONS**
KAZIÇI M., UCUN F.
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- II. **Effect of external electric field on interaction of non-aromatic pi-systems**
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- III. **Response of halogen-pi interaction in CH3Br ---Benzene complex toward external electric field: A theoretical study**
TUNÇ F., TOKATLI A., UCUN F.

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- IV. **Effect of External Electric Field on Intermolecular Halogen Bond of the N-Substituted Imidazoles ••• X₂/XY Complexes**
TUNÇ F., TOKATLI A., UCUN F.
III. International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), 26 - 29 August 2017
- V. **Determination of Aromatic Characters of The Fluorinated Diazines**
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- VI. **Calculated optimized structures and hyperfine coupling constants of some radical adducts of 2 Methyl 2 Nitrosopropone MNP in water solution**
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- VII. **Continuous Energy Values of 3 Amino 4 Nitraminofurazan Molecule by Modern Optimization Techniques**
KOMAN S., UCUN F., ŞAHİNER A.
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- VIII. **Calculated optimized structures and hyperfine coupling constants of some radical adducts of 5 5 dimethyl 1 pyrroline N oxide DMPO in benzene solution**
Nardalı Ş., KARAKAYA M., UCUN F.
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- IX. **Optimizing the Structures of Glyceric Acid Molecule by Modern Optimization Technique**
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- X. **Completed Optimized Structure of Threonine Molecule by Fuzzy Logic Modelling**
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- XII. **Highest Lowest Occupied Molecular Orbital Analysis of 4 Bromomethyl 6 tert butyl 2H chromen 2 one**
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II. INTERNATIONAL TURKISH CONGRESS ON MOLECULAR SPECTROSCOPY, Antalya, Turkey, 13 - 18 September 2015, pp.48
- XIII. **Spectroscopic Investigations and DFT Calculations on 3 diacetylamino 2 ethyl 3H quinazolin 4 one**
SERT Y., UCUN F.
II. INTERNATIONAL TURKISH CONGRESS ON MOLECULAR SPECTROSCOPY, Antalya, Turkey, 13 - 18 September 2015, pp.47
- XIV. **Vibrational Spectroscopy Investigation of 2 Trifluoromethyl 10H benzo 4 5 imidazo 1 2 a pyrimidin 4 one**
UCUN F., SERT Y., Me M., Rukiye Y.
I. Ulusal Hesaplamalı Kimya Çalıştayı, Turkey, 1 - 03 July 2014
- XV. **Fenil N ter bütül nitronenin Bazı Radikal Ürünlerinin Su Çözeltisinde Temel Hal Optimize Yapıları ve Aşırı İnce Yapı Sabitlerinin Hesaplanması**
UCUN F., Sinem G. A.
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- XVI. **Yoğunluk Fonksiyon Teori Metoduyla Kateşin ve Epikateşin Molekülerinin Optimize Yapıları ve Spektral Analizler**
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- XVIII. **4 Floro pyrazolo 3 4 d pirimidinin Molekül Yapısı Titreşim ve 1H 13C NMR Kimyasal Kayma Analizleri**
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ADIM Fizik Günleri-III, Turkey, 1 - 03 July 2014
- XIX. **Calculated optimised structures and hyperfine coupling constants of some radical adducts of α - phenyl-N-ter-butyl nitrene in benzene solution.**
GÜRKAN AYDIN S., UCUN F.
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- XX. **Conformational and Vibrational Analysis of 5 6 and 7 Methoxy 3 4 Dihydronaphthalen 1 2h One by Ab Initio Hartree Fock And Density Functional Theory Calculations**
UCUN F., Mehmet K.
XIII. Ulusal Spektroskopi Kongresi, Turkey, 1 - 03 July 2013
- XXI. **Etil 2Z 2 2 Amino 4 Okso 1 3 Oksazol 5 4H İleden 3 Okso fenilpropanoat Bileşiğinin sentezi Karakterizasyonu ve Titreşim Spektrum analizi**
Kıbrız İ. E., Saçmacı M., Şahin E., Yıldırım İ., UCUN F., SERT Y.
XIII. Ulusal Spektroskopi Kongresi, Mehmet Akif Ersoy Üniversitesi, Turkey, 1 - 03 July 2013
- XXII. **Yoğunluk Fonksiyon Teori ile Naftalin Türevlerinin Optimize Moleküler Yapıları ve 1H 13C NMR Kimyasal Kaymaları**
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- XXIII. **Etil 2E 3 Amino 2 4 Benzoil 1 5 Difeni 1H Pirazol 3 İl Karbonil Amino karbonotiyolil Büt 2 Enoat Sentez Spektroskopi vee Teorik Çalışmalar**
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- XXIV. **Density functional theory on conformations of benzoylcholine chloride**
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- XXV. **Molecular structure and vibrational spectra of 2 3 4 ethylpyridine and 2 3 4 vinylpyridine by density functional theory and ab initio Hartree Fock calculations**
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- XXVI. **Quantum chemical computational studies on chlorocholine chloride and bromocholine bromide**
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- XXVII. **A theoretical study on boron trifluoride methyl etherate**
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25. Uluslararası katılımlı ulusal kimya kongresi Atatürk Üniversitesi, 1 - 03 July 2011
- XXVIII. **A DFT Study on Tautomerism and Vibrational Analysis of Biomolecules 3 Deazauracil and 6 Azaauracil**
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- XXIX. **Ir Raman spectra vibrational frequencies frontier molecular orbitals FMOs analysis of choline bicarbonate and choline hydroxide using DFT calculations**
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- XXXI. **Yoğunluk Fonksiyon Teori DFT Metoduyla Kolin Halojenlerin F Cl Br Titreşimsel Analizi ve Kimyasal Kaymaları**
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- XXXIII. **Hartree Fock and Yoğunluk Fonksiyon Teori DFT Metotlarıyla Kolin Klorür Molekülünün Titreşimsel Analizi**
UCUN F., Karakaya M.
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- XXXIV. **The Ground State Hydrogen Conformations and Vibrational Analysis of 2 3 4 and 5 Dihydroxybenzaldehyde A DFT Study**
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. Uluslararası Fizik Kongresi, Türk Fizik Derneği, 1 - 03 October 2009
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- XXXIX. **Experimental and theoretical vibrational frequencies and molecular structure of nicotinic acid vitamin B3**
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25. Uluslararası Fizik Kongresi, Türk Fizik Derneği, 1 - 03 July 2008
- XL. **FT IR study of polyethyleneglycol 400 PEG 400 asorbed on a x and y type zeolites 22 Uluslararası Fizik Kongresi**
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- XLI. **Molecular Structure and Vibrational Frequencies of 2 3 and 4 Nitroanilines by ab initio Hartree Fock and Density Function Theory Calculations**
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22. Uluslararası Fizik Kongresi, Türk Fizik Derneği, 1 - 03 July 2008
- XLII. **Conformational and vibrational analysis of 2 3 and 4 trifluoromethylbenzaldehyde by ab initio Hartree Fock and density function theory calculations**
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- XLIV. Vibrational frequencies and corresponding vibrational assignments of 2-hydroxy-3-nitropyridine and 3-hydroxy-2-nitropyridine by ab initio Hartree Fock HF and density functional theory B3LYP methods with 6-31G(d,p) basis set level**
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- XLV. Molecular structure and vibrational Frequencies of N-aminophthalimide by ab initio Hartree Fock and Density Functional Theory Calculations**
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- XLVI. Vibrational frequencies of xanthine and its methyl derivatives caffeine, theophylline and theobromine by ab initio Hartree Fock and density functional theory calculations**
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6. International Conference of the Balkan Physical Union İstanbul, 1 - 03 September 2006
- XLVII. Düzlemsel XY₃ ve tetrahedral XY₄ türü moleküller kuvvet sabitlerinin GF matrisiyle Hesaplanması**
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- XLVIII. Gaz Fazında Doğrusal Olmayan XY₂ Türü Moleküllerin İç Koordinatlarda Kuvvet Sabitlerinin GF Matrisi Metodu ile Tayini**
UCUN F., GÜÇLÜ V.
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- XLIX. Halojenli Fenollerde Halojenin Elektonegatifliğinin Fenolün Titreşim Frekanslarına Etkisinin İncelenmesi**
AKTAŞ A. H., ERTOKUS G. P., Uçun F.
XVIII Ulusal Kimya Kongresi, Kars, Turkey, 5 - 07 July 2004, pp.222
- L. Geçiş Metal İyonlarının 3,5-di-tert-butyl-1,2-Benzokinon-1-Monoksim Komplekslerinin Sentezi ve Spektroskopik Karakterizasyonu**
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- LI. Katihal reaksiyonu ile katyonları Mo(V) ile değiştirilmiş zeolit Y'nin EPR incelemesi**
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II. Ulusal Atom ve Molekül Fiziki Sempozyumu, Turkey, 1 - 03 July 1998
- LII. ESR studies of new oxovanadium(IV) complexes with Schiff base ligands containing sterically hindered phenol fragment**
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XI. Ulusal Kimya Kongresi, Turkey, 1 - 03 July 1997
- LIII. Synthesis, spectroscopic and ESR investigation of new Cu(II) complexes with redox active salicylaldehydes of Cu(II)**
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XI. Ulusal Kimya Kongresi, Turkey, 1 - 03 July 1997
- LIV. Synthesis and ESR study of one electron transfer radical intermediates of N-(2,6-Tert-Butyl-1-Hydroxyphenyl)salicylaldehyde**
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XI. Ulusal Kimya Kongresi, Turkey, 1 - 03 July 1997
- LV. ESR studies of the radical intermediates in aerobic reactions of 3,5-ditertbutyl-o-benzoquinone oximes with Cu(II), Co(II), Ni(II), Pd(II), VO(II), Mn(II), Zn(II)**
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Citations

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