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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey 1991 - 1997

Postgraduate, Anadolu University, Institute Of Science, Kuthal Fiziği (YI) (Tezli), Turkey 1989 - 1991

Undergraduate, Anadolu University, Faculty Of Arts And Sciences, Fizik Pr., Turkey 1985 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yüksek-güçlü sürekli-dalgalı infrared karbondioksit laser dizaynı, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), 1997

Postgraduate, Doğal zeolit' in biyofiziksel bir uygulaması: BUN (Kandaki üre azotu)' xnxun temizlenmesi, Anadolu University, Fen Bilimleri Enstitüsü, Kuthal Fiziği (YI) (Tezli), 1991

Research Areas

Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Molecular Properties and Interactions with Photon, Chemistry, Analytical Chemistry, Spectroscopical Methods, Natural Sciences

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 1991 - Continues

Advising Theses

TAŞAL E., Lazerlerin genel kuantum teorisi, Postgraduate, M.İLKER(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **FT-IR, HF and DFT structural, vibrational analysis of 5-chloro-3-(2-(4-ethylpiperazin-1-yl)-2-oxoethyl)benzo[d]thiazol-2(3H)-one molecule**
TAŞAL E., Kumalar M.
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- II. **A study on solvatochromism of some monoazo dye derivatives**
SIDIR İ., SIDIR Y. G., BERBER H., TAŞAL E.
JOURNAL OF MOLECULAR LIQUIDS, vol.178, pp.127-136, 2013 (SCI-Expanded)
- III. **Ab initio HF, DFT and experimental (FT-IR) investigation of vibrational spectroscopy of 3-(2-(4-isopropylpiperazin-1-yl)-2-oxoethyl)-6-(4-methoxybenzoyl)benzo[d]thiazol-2(3H)-one**
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- IV. **Structure and vibrational spectra of 6-(4-fluorobenzoyl)-3-(2-(4-methylpiperazin-1-yl)-2-oxoethyl)benzo[d]thiazol-2(3H)-one molecule**
TAŞAL E., Kumalar M.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.96, pp.548-562, 2012 (SCI-Expanded)
- V. **Ab initio Hartree-Fock and density functional theory investigations on the conformational stability, molecular structure and vibrational spectra of 5-chloro-3-(2-(4-methylpiperazin-1-yl)-2-oxoethyl)benzo[d]thiazol-2(3H)-one drug molecule**
TAŞAL E., Kumalar M.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.95, pp.282-299, 2012 (SCI-Expanded)
- VI. **A Theoretical Study on Electronic Structure and Structure-Activity Properties of Novel Drug Precursor 6-Acylbenzothiazolon Derivatives**
SIDIR Y. G., SIDIR İ., TAŞAL E., Ogretir C.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.111, no.14, pp.3616-3629, 2011 (SCI-Expanded)
- VII. **UV-spectral changes for some azo compounds in the presence of different solvents**
SIDIR Y. G., SIDIR İ., BERBER H., TAŞAL E.
JOURNAL OF MOLECULAR LIQUIDS, vol.162, no.3, pp.148-154, 2011 (SCI-Expanded)
- VIII. **Studies on the electronic absorption spectra of some monoazo derivatives**
SIDIR Y. G., SIDIR İ., TAŞAL E., Ermis E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.78, no.2, pp.640-647, 2011 (SCI-Expanded)
- IX. **Spectroscopic Determination of Acid Dissociation Constants of Some Novel Drug Precursor 6-Acylbenzothiazolon Derivatives**
Sidir Y. G., Sidir I., BERBER H., TAŞAL E., Ogretir C.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.11, pp.4752-4756, 2010 (SCI-Expanded)
- X. **Ab initio Hartree-Fock and density functional theory investigations on the conformational stability, molecular structure and vibrational spectra of 3-(2-(4-methylpiperazin-1-yl)-2-oxoethyl)benzo[d]thiazol-2(3H)-one**
Sidir I., Sidir Y. G., TAŞAL E., Ogretir C.
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- XI. **Ab initio Hartree-Fock and density functional theory investigations on the conformational stability, molecular structure and vibrational spectra of 7-acetoxy-6-(2,3-dibromopropyl)-4,8-dimethylcoumarin molecule**
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JOURNAL OF MOLECULAR STRUCTURE, vol.964, pp.134-151, 2010 (SCI-Expanded)

- XII. **Quantum chemical studies on tautomerism and basicity behavior of some 1,2,4-triazole derivatives**
Ogretir C., Sidir Y. G., SIDIR İ., TAŞAL E.
TURKISH JOURNAL OF CHEMISTRY, vol.34, no.6, pp.977-988, 2010 (SCI-Expanded)
- XIII. **Solvatochromic effect studies on the absorption spectra of 4-((2-ethylphenyl)diazenyl)benzene-1,3-diol and 2-((2-ethylphenyl)diazenyl)benzene-1,3,5-triol molecules**
Gulseven Y., TAŞAL E., Sidir I., Gungor T., BERBER H., Ogretir C.
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- XIV. **Studies on solvatochromic behavior of some monoazo derivatives using electronic absorption spectra**
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- XV. **Experimental and density functional theory and ab initio Hartree-Fock study on the vibrational spectra of 5-chloro-6-(4-chlorobenzoyl)-2-benzothiazolinone molecule**
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- XVI. **Vibrational spectra and molecular structure of 3-(piperidine-1-yl-methyl)-1,3-benzoxazol-2(3H)-one molecule by density functional theory and Hartree-Fock calculations**
TAŞAL E., Sidir I., Gulseven Y., Ogretir C., ÖNKOL T.
JOURNAL OF MOLECULAR STRUCTURE, vol.923, pp.141-152, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Doğal Zeolit Klinoptilolit le Ürenin İyon**
TAŞAL E.
Anadolu Üniversitesi Fen Edebiyat Fakültesi Dergisi, vol.4, no.1, pp.22-30, 1992 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **ATOM VE MOLEKÜL FİZİĞİ**
TAŞAL E.
ESOGU, Eskişehir, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **The Interaction of piperazine derived molecule with discharge at atmospheric conditions**
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ChemBioCon'xxxx18, 11 - 14 July 2018
- II. **The Interactions of piperazine-derived molecule with discharge at atmospheric conditions**
ŞAHİN N., TANIŞLI M., TAŞAL E., DİKMEN G.
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- III. **The Interaction of a molecule with atmospheric pressure plasma**
ŞAHİN N., TANIŞLI M., TAŞAL E.
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- IV. **Interaction of 2-((2-Methoxyphenyl)diazenyl)benzene-1,3,5-Triol Molecule and Atmospheric Pressure Argon Plasma Jet**
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Turkish Physical Society 33rd International Physics Congress, Muğla-Bodrum, Turkey, 6 - 10 September 2017,

pp.394

- V. **An Investigation For Effects of Neon and Argon Plasma Jets on Coumarin Molecule at Atmospheric Pressure**
TANIŞLI M., TAŞAL E.
TPS 33rd International Physics Congress, Muğla / Bodrum, Turkey, 6 - 10 September 2017, pp.384
- VI. **A Comparison for Atmospheric Pressure Plasma Treatment Effects onto Molecule Dissolved in Solvents**
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- VII. **Decomposition of Chemical Chain Molecules with Atmospheric Pressure Plasma**
TANIŞLI M., TAŞAL E.
Bulletin of the American Physical Society 58th Annual Meeting of the APS Division of Plasma Physics, San Jose, California, United States Of America, 31 - 04 October 2016
- VIII. **UV Spectra of Interaction of Electrical Discharge and Liquid-Molecule**
TAŞAL E., TANIŞLI M.
TFD 32, BODRUM, Turkey, 6 - 09 September 2016, vol.1, pp.70
- IX. **Characterization of Interaction between Atmospheric Pressure Plasma Jet and Liquid-Molecule**
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tfd 32, muğla-bodrum, Turkey, 6 - 09 September 2016, vol.1, pp.69
- X. **An Investigation of Interaction for Electrical Discharge and Liquid Molecule**
TANIŞLI M., TAŞAL E.
Plasma in technology, biology and medicine, prag, Czech Republic, 20 May - 23 June 2016
- XI. **Raman Spectra of 7 acetoxy 6 2 3 dibromopropyl 4 8 dimethylcoumarin Molecule Under the Effect of Atmospheric Pressure Plasma Jet of Neon Ne**
TAŞAL E., TANIŞLI M.
COST TD1208 3th Annual meeting "Electrical discharges with liquids for future applications," Kocaeli, 13th-17th March 2016WG2 - Gas discharges interaction with liquids, Kocaeli, Turkey, 13 - 17 March 2016
- XII. **1 3 5 triphenylformazan Molekülünün Absorpsiyon Spektrumu Üzerine Çözücü Etkisinin Belirlenmesi**
TAŞAL E.
13. Ulusal Spektroskopi Kongresi, Turkey, 13 - 16 May 2013
- XIII. **1 o tolyl 3 o hydroxyphenyl 5 phenylformazans Molekülünün Absorpsiyon Spektrumu Üzerine Çözücü Etkisinin Belirlenmesi**
TAŞAL E.
13. Ulusal Spektroskopi Kongresi, Turkey, 13 - 16 May 2013
- XIV. **3 2 4 izopropilpiperazin 1 il 2 okzoetil 6 4 metoksibenzoil benzo d tiyazol 2 3H on molekülünün optik soğurma spektrumu üzerine çözücü etkisi**
TAŞAL E.
18. Yoğun Madde Fiziği -, Turkey, 25 November 2011
- XV. **Bazı azo boyar maddelerin elektronik absorpsiyon spektroskopisi üzerine substituent etkisi**
TAŞAL E.
12. Ulusal Spektroskopi Kongresi, Turkey, 18 - 28 May 2011
- XVI. **Bazı azo boyar moleküllerin yapı etki ilişkileri ve çözücü polaritesiyle indüklenmiş solvatokromik**
TAŞAL E.
12. Ulusal Spektroskopi Kongresi, Turkey, 18 - 22 May 2011
- XVII. **Quantum Chemical Studies on Tautomerisation and protonation behaviours of Some Novel Drug Precursor 6 Acylbenzothiazolon Derivatives**
TAŞAL E.
7th General Conference of the Balkan Physical Union, p 90, Greece, 9 - 13 September 2009
- XVIII. **E 4 PHENYLDIAZENİL BENZEN 1 3 DİOL MOLEKÜLÜNÜN TERMODİNAMİK VERİLERİ KONFORMASYONEL KARARLILIĞI VE BAZI MOLEKÜLER ÖZELLİKLERİ**
TAŞAL E.

- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXIX. **7 DİETİLAMİNO 4 TRİFLUOROMETİL 2H 1 BENZOPİRAN 2 ON MOLEKÜLÜNÜN FT IR AB INITIO HF VE DFT MOLEKÜLER YAPI VE TİTREŞİM FREKANS ANALİZLERİ**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XX. **7 dietilamino 4 trifluorometil 2H 1 benzopiran 2 on molekülünün Deneysel ve Teorik NMR Çalışmaları TFD**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXI. **4 4 HİDROKSİFENİL DİAZENİL BENZEN 1 3 DİOL MOLEKÜLÜNÜN KONFORMASYONEL VE MOLEKÜLER YAPISI**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXII. **7 ASETOKSİ 6 2 3 DİBROMOPROPİL 4 8 DİMETİLKUMARİN MOLEKÜLÜNÜN NMR SPEKTROSKOPİSİ İLE DENEYSEL VE TEORİK OLARAK İNCELENMESİ**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXIII. **4 4 HİDROKSİFENİL DİAZENİL BENZEN 1 3 DİOL MOLEKÜLÜNÜN FT IR SPEKTRUMU VE AB İNİTİO HF DFT HESAPLAMALARI**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXIV. **E 4 Phenyl diazenil benzen 1 3 diol molekülünün FT IR spektrumu ve ab initio HF DFT hesaplamaları**
TAŞAL E.
- TFD-29 International Physics Conference, P, Turkey, 5 - 08 September 2012
- XXV. **4 2 Metoksifenil diazenil benzen 1 3 diol MOLEKÜLÜNÜN TERMODİNAMİK VERİLERİ KONFORMASYONEL KARARLILIĞI VE BAZI MOLEKÜLER ÖZELLİKLERİ**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXVI. **4 2 Metoksifenil diazenil benzen 1 3 diol molekül yapısının deneysel FT IR ve teorik HF DFT İncelemeleri**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXVII. **2 4 HİDROKSİFENİL DİAZENİL BENZEN 1 3 5 TRIOL MOLEKÜLÜNÜN FT IR AB INITIO HF VE DFT ÇALIŞMALARI**
TAŞAL E.
- TFD-29 International Physics Conference, Turkey, 5 - 08 September 2012
- XXVIII. **Theoretical Studies on Infrared and Molecular Structure of N Substitued 6 Acylbenzothiazolon Derivatives**
TAŞAL E.
- DFT09 13th International Conference on the Applications of Density Function Theory in Chemistry and Physics, France, 31 August - 04 September 2009
- XXIX. **Vibrational Spectra and Molecular Structure of N Substitued 6 Acylbenzothiazolon Derivatives A Combined DFT Ab initio HF and Experimental Study DFT09**
TAŞAL E.
- DFT09 13th International Conference on the Applications of Density Function Theory in Chemistry and Physics, France, 31 August - 04 September 2009
- XXX. **QSA P R Studies On Some Novel Drug Precursor 6 Acylbenzothiazolon Derivatives**
TAŞAL E.
- DFT09 13th International Conference on the Applications of Density Function Theory in Chemistry and Physics, France, 31 August - 04 September 2009
- XXXI. **Bazı Monoazo Moleküllerin Ultraviyole Soğurma Spektroskopisi ile Elektronik Geçişlerin İncelenmesi**

- TAŞAL E.
11. Ulusal Spektroskopi Kongresi, Turkey, 23 - 26 June 2009, vol.11, pp.100
- XXXII. **6 benzoil 3 3 okzo 3 piperidin 1 il propil benzo d tiyazol 2 3H on Molekülünün İnfrared Spektrumunun Deneysel ve Teorik olarak İncelenmesi P111**
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- XXXIV. **Studies On Solvatochromic Behavior Of Some Monoazo Derivatives Using Electronic Absorption Spectra**
TAŞAL E.
TFD-25 Internatıonal Physics Conference, Turkey, 25 - 29 August 2008
- XXXV. **Solvatochromic Effect On The Absorption Spectra Of 4 2 Ethylphenyl Diazenyl Benzene 1 3 Diol And 2 2 Ethylphenyl Diazenyl Benzene 1 3 5 Triol**
TAŞAL E.
TFD-25 Internatıonal Physics Conference, Turkey, 25 - 29 August 2008
- XXXVI. **Molecular Structure İnfrared Spectra And Some Molecular Properties Of 5 Chloro 6 4 Chlorobenzoyl 2 Benzothiazolinone Spectra**
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TFD-25 Internatıonal Physics Conference, P, Turkey, 25 - 29 August 2008
- XXXVII. **Computational Determination Of Acid Dissociation Constants Using First Principles Quantum Chemical Simulations**
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9th International Balkan Workshop on Applied Physics, Romania, 7 - 09 July 2008
- XXXVIII. **Computational Determination Of Pka Values And Comparison Of Theoretical Approaches 9th International Balkan Workshop on Applied**
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9th International Balkan Workshop on Applied Physics, Romania, 7 - 09 July 2008
- XXXIX. **Bazı Monoazo Benzen Moleküllerin Farklı Çözeltilerde Soğurma Spektroskopisinin İncelenmesi**
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II. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Turkey, 28 - 30 May 2008, vol.1, pp.59
- XL. **Computational Determinaton Of Acidity Constatnts Of Some 7 Acetoxycoumarin 3 Carboxylic Acid Derivaties**
TAŞAL E.
Chemical Physics Conference VIII, Turkey, 25 - 26 April 2008
- XLI. **Computational Determinaton Of Acidity Constatnts Of Some 3 Acetamidocoumarin Derivaties**
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- XLII. **Theoretical Studies On Molecular Structure And Some Molecular Properties Of 6 2 Fluorobenzoyl 3 2 4 4 Fluorophenyl Piperazin 1 Yl 2 Oxoethyl Benzo D Thiazol 2 3h One Molecule**
TAŞAL E.
Chemical Physics Conference VIII, Turkey, 24 - 25 April 2008
- XLIII. **Quantum Chemical Studies On Acidity Basicity Behaviours Of Some 1 2 4 Triazole Derivates**
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- XLV. **Experimental And Theoretical Studies on 13C And 1H NMR Spectra of 6 2 fluorobenzoyl 3 2 4 4**

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XLVII. Conformational Properties Molecular Structure And Some Molecular Properties Of The 5 Chloro 6 4 Chlorobenzoyl 2 Benzothiazolinone Molecule

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XLVIII. Computational Determinaton Of Acidity Constant Of 6 Methyl 2 Pyridine Carboxaldehyde

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XLIX. Molecular Structures and Vibrational Frequencies of 7H Furo 3 2 G 1 Benzopyran 7 One 2 M 1 Bezoyloxy 1 Methylethyl 2 3 Dihydro by Ab Initio Hartree Fock and Density Functional Theory Calculations

TAŞAL E.

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L. A theoretical study on structure of 3 1 amino ethylidene 2 methoxy 2 oxo 2 3 dihydro 2 5 benzo e 1 2 oxaphosphinin 4 one crystal

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LI. Theoretical Calculations of Vibrational Spectra of 1 2 6 2 fluorobenzoyl 2 oxo 3H benzothiazolon 3 yl acetyl 4 4 fluorophenyl piperazine

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LII. A Theoretical Investigation on 1H and 13C NMR of S 2 7 oxo 3 7 dihydro 2H furo 3 2 g chromen 2 yl propan 2 yl 3 methylbut 2 enoate prantschimgin Molecule

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LV. In Situ Direct Photoproduction of Ketenes from Substituted Coumarins Isolated in Solid Argon The Case of N 2 oxo 2H chromen 3 yl acetamide

TAŞAL E.

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LVII. Infrared Spectra of Coumarin Derivatives at Room and High Temperatures 6o Encontro da Divisao de Quimica Analitica

TAŞAL E.

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- LVIII. The Theoretical Analysis of Electron Phonon Inter action and Relaxation and Density Matrix 8**
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8.Ulusal Fotonik Çalıştayı, Turkey, 15 September 2006, pp.65
- LIX. Matrix İsolation FTIR Spectroscopic and Theoretical Study of the photochemistry of Coumarin**
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- LX. The Theoretical Analysis of Derivation of the Density Matrix and Method of solution for a Three Level Atom İnteracting with Two Optical Radiation Fields**
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- LXI. Theoretical Infrared Spectroscopic Study of 1 Methyl 1 2 Oxofurano 4 5 G 2H Chromen 7yl EthylBenzoate 28 European Congress on Molecular Spectroscopy**
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- LXIII. The theoretical analysis of derivation of the density matrix and method of solution for a three level atom interacting with two optical radiation fields**
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- LXIV. The Theoretical Analysis of Electron Phonon Inter action and Relaxation and Density Matrix**
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- LXV. Using Theoretical Calculations to Analyze The Crystal Structure of 3 1 Amino Ethylidene 2 Methoxy 2 oxo 2 3 dihydro 2 5 Benzo E 1 2 oxaphosphinin 4 one**
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2nd, Cap.Canada, Congress, Canada, 10 - 15 June 2006
- LXVI. A Theoretical Study on Crystal Structure of 3 1 Amino Ethylidene 2 Methoxy 2 oxo 2 3 dihydro 2 s Benzo E 1 2 oxaphosphinin 4 one**
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A Theoretical Study on Crystal Structure of 3-(1-Amino-Ethylidene)-2-Methoxy-2-oxo-2,3-dihydro-2-s-Benzo[E] [1,2] oxaphosphinin-4-one, 2nd, Turkish Crystallographic Meeting, Turkey, 17 - 19 May 2006
- LXVII. The Teoritical Analysis of Quas Three Level Yb YAG Lasers**
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- LXVIII. The Theoritical Analysis of Collective Excitations for the Optical Stark Effect**
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- LXIX. he Teoritical Analysis of Collective Excitations for the semiconductor Bloch Equantions and Density Matrix and Hartree Fock Decoupling 01PB33**
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- LXX. Üç Enerji Seviyemsi Diyod Pompalı Katihal Laserlerinin Teorik Analizi**
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- LXXI. The Theoretical Analysis of Rate Equations and Pump Power for Diyode pumped Solid State Lasers**
TAŞAL E.
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- LXXII. **Principle of EMG Excimer Lasers**
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5 General Conference of the Balkan Physical Union, Romania, 25 - 29 August 2003
- LXXIII. **High Power Diffusion Cooling Planar Waveguide CO2 Laser**
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