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Education Information

Doctorate, Eskişehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1991 - 1997

Postgraduate, Anadolu University, Institute Of Science, Katıhal 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, Eskişehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 1997

Postgraduate, Doğal zeolit'in biyofiziksel bir uygulaması: BUN (Kandaki üre azotu)'xxnun temizlenmesi, Anadolu University, Fen Bilimleri Enstitüsü, Katıhal 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, Eskişehir Osmangazi University, Fen Fakültesi, Fizik 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**
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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.
JOURNAL OF MOLECULAR STRUCTURE, vol.980, pp.230-244, 2010 (SCI-Expanded)
- 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.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, no.12, pp.5255-5259, 2009 (SCI-Expanded)
- 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**
TAŞAL E., Sidir I., Gulseven Y., Ogretir C., ÖNKOL T.
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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**
ŞAHİN N., TANIŞLI M., TAŞAL E., DİKMEN G.
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.
International Chemistry Biology Conference'18, Sharm El Sheikh, Egypt, 11 - 14 July 2018
- 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**
TANIŞLI M., TAŞAL E.
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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ASTECH'xx2017, Malaga, Spain, 17 - 20 April 2017, pp.7
- 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**
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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

- XIX. **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 dİetİlamİno 4 trİfluorometİl 2H 1 benzopİran 2 on molekülünün Deneysel ve TeorİK NMR Çalışmaları TFD**
TAŞAL E.

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- 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 Phenyldiazenil 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 DIAZENİL 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 Experimantel 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 Deneyisel ve Teorik olarak İncelenmesi P111**

TAŞAL E.

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- XXXIV. **Studies On Solvatochromic Behavior Of Some Monoazo Derivatives Using Electronic Absorption Spectra**

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TFD-25 International 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 International 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**

TAŞAL E.

TFD-25 International Physics Conference, P, Turkey, 25 - 29 August 2008

- XXXVII. **Computational Determination Of Acid Dissociation Constants Using First Principles Quantum Chemical Simulations**

TAŞAL E.

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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- XXXIX. **Bazı Monoazo Benzen Moleküllerin Farklı Çözeltilerde Soğurma Spektroskopisinin İncelenmesi**

TAŞAL E.

II. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Turkey, 28 - 30 May 2008, vol.1, pp.59

- XL. **Computational Determination Of Acidity Constants Of Some 7 Acetoxycoumarin 3 Carboxylic Acid Derivatives**

TAŞAL E.

Chemical Physics Conference VIII, Turkey, 25 - 26 April 2008

- XLI. **Computational Determination Of Acidity Constants Of Some 3 Acetamidocoumarin Derivatives**

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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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- XLIV. **Quantum Chemical Studies On Tautomerism 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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- XLVI. **Theoretical And Experimental Studies On Infrared Spectra Of The 5 Chloro 6 4 Chlorobenzoyl 2 Benzothiazolinone Molecule**

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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.

8th Congress of Physical-Chemistry of the Portequese Chemical Society, Portugal, 21 - 22 June 2007

- 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**

TAŞAL E.

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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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- LIII. **Theoretical Calculation of Molecular Structure of 6 Methyl 2 Pyridine Carboxaldehyde**

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- LIV. **Theoretical Calculations of Molecular Structure of 6 Methyl 2 Pyridine Carboxaldehyde**

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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.

Gordon Research Conferences - Matrix Isolated Species, Physics & Chemistry of, United States Of America, 15 - 20 June 2007

- LVI. **Molecular Structures and Vibrational frequencies of 7H Furo 3 2 G 1 Benzopyran 7 One 2 M 1 benzoyloxy 1 Methyl 2 3 Dihydro by Ab Initio Hartree Fock and Density Functional Theory Calculations**

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

TAŞAL E.

6o Encontro da Divisao de Quimica Analitica, Portugal, 29 - 30 March 2007

- LVIII. The Theoretical Analysis of Electron Phonon Inter action and Relaxation and Density Matrix**
TAŞAL E.
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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8.Ulusal Fotonik Çalıştayı, Turkey, 15 September 2006, pp.62
- 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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28. European6. Congress on Molecular Spectroscopy, P107, Turkey, 3 - 08 September 2006
- LXI. Theoretical Infrared Spectroscopic Study of 1 Methyl 1 2 Oxofurano 4 5 G 2H Chromen 7yl EthylBenzoate**
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- LXII. The Theoretical analysis of electron phonon interaction and relaxation and density matrix**
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6.International Conference of Balkan Physical Union, 22 - 26 August 2006
- 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**
TAŞAL E., KUŞ N., PEKER D., KUMALAR M., ÖĞRETİR C., KILIÇKAYA M. S., ÖZKÜTÜK M., KURTARAN S., İŞSEVER U. G., ATALAY A.
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- LXIV. The Theoretical Analysis of Electron Phonon Inter action and Relaxation and Density Matrix**
TAŞAL E.
6th International Conference of the Balkan Physical Union-, Turkey, 22 August - 26 June 2006
- 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-2H-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**
TAŞAL E.
Türk Fizik Derneği, 23., Turkey, 13 - 17 September 2005, pp.37
- 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**
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Türk Fizik Derneği, 23., Turkey, 13 - 16 September 2005, pp.33
- LXX. Üç Enerji Seviyemsi Diyod Pompalı Katıhal Laserlerinin Teorik Analizi**
TAŞAL E.
22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- LXXI. The Theoretical Analysis of Rate Equations and Pump Power for Diode pumped Solid State Lasers**
TAŞAL E.
TFD 22., Turkey, 14 - 17 September 2004, vol.1, pp.24

- LXXII. **Principle of EMG Excimer Lasers**
TAŞAL E.
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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ROMOPTO'97, 5th Conference on Optics, Romania, 9 - 12 September 1997
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