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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya, Turkey 1993 - 1998

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Kimya, Turkey 1985 - 1990

Research Areas

Basic Sciences, Chemistry, Physical Chemistry, Computational Chemistry, Conductive Polymers, Quantum Mechanics

Academic Titles / Tasks

Professor, Erciyes University, Fen Fakültesi, Kimya Bölümü, 2008 - Continues

Associate Professor, Erciyes University, Fen-Edebiyat Fakültesi, Kimya, 2002 - 2008

Assistant Professor, Erciyes University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2001 - 2002

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 1990 - 1999

Academic and Administrative Experience

2010 - Continues

Courses

Mesleki İngilizce II, Undergraduate, 2021 - 2022

General Chemistry I, Undergraduate, 2021 - 2022

Mesleki İngilizce I, Undergraduate, 2021 - 2022

Reaksiyon Kinetiği, Undergraduate, 2021 - 2022

Applied Mathematics for Physical Chemistry, Postgraduate, 2019 - 2020

Matematik, Undergraduate, 2016 - 2017

Malzeme Termodinamiği II, Undergraduate, 2016 - 2017

Matematik, Undergraduate, 2016 - 2017

Kimya I, Undergraduate, 2013 - 2014

Nükleer Kimya II, Undergraduate, 2013 - 2014
Elektrokimya, Undergraduate, 2013 - 2014
Fizikokimya Hesaplamaları, Postgraduate, 2013 - 2014
Physical Chemistry Calculations, Postgraduate, 2013 - 2014
Bitirme Tezi, Undergraduate, 2012 - 2013
Kuantum Kimyası, Undergraduate, 2012 - 2013
Fizikokimya II, Undergraduate, 2010 - 2011
Fizikokimya I, Undergraduate, 2010 - 2011
Kimyacılar için Bilgisayar Kullanımı, Undergraduate, 2010 - 2011
Genel Kimya Lab., Undergraduate, 2010 - 2011
Kinetik ve Kataliz, Undergraduate, 2009 - 2010
Kimyada Matematik Metotlar, Undergraduate, 2009 - 2010
Kimyasal Tepkime Dinamiği, Doctorate, 2008 - 2009
Radyokimya, Undergraduate, 2008 - 2009

Advising Theses

Büyükmumcu Z., Theoretical analysis of small fullerenes, Postgraduate, N.TAGHLIB(Student), 2019
Büyükmumcu Z., Bazı gümüş n-heterohalkalı karben komplekslerinin teorik analizi, Postgraduate, M.KALKAT(Student), 2018
BÜYÜKMUMCU Z., İLETKEN POLİMERLERDE HETEROATOM VE SUBSTİTUENT ETKİSİNİN TEORİK ANALİZİ, Postgraduate, İ.KOCATÜRK(Student), 2014
BÜYÜKMUMCU Z., SELENOLO [3,4B]SELENOFENİN ELEKTROKİMYASAL OLARAK OLİGOMERLEŞMESİNİN VE POLİSELENOLO [3,4B] SELENOFENİN BANT YAPISININ YOĞUNLUK FONKSİYONEL TEORİ İLE İNCELENMESİ, Postgraduate, D.DİLBAZ(Student), 2011
BÜYÜKMUMCU Z., Aseton-n-pentan Azeotropunun Farklı Kuramsal Metotlarla İncelenmesi, Postgraduate, İ.AYDIN(Student), 2008
BÜYÜKMUMCU Z., Aseton-n-hekzan Azeotropunun Farklı Kuramsal Metotlarla İncelenmesi, Postgraduate, S.KOLAY(Student), 2008
BÜYÜKMUMCU Z., Bazı Polimerlerin İletkenlik ve Titreşim Spektroskopik Özelliklerinin Kuramsal incelenmesi, Postgraduate, H.DA(Student), 2006
BÜYÜKMUMCU Z., Bazı Polimer Bileşiklerinin Titreşim Spektrumlarının Hesaplanması Amacıyla Kullanılan Hesaplama Yöntemlerinin Karşılaştırmalı İncelenmesi, Postgraduate, F.KÖSE(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, spectral and theoretical (DFT) investigations of 4,6-diphenyl-6-hydroxy-1-[(1Z)-1-phenyl ethylidene] amino}tetrahydropyrimidine-2(1H)-one**
ARI H., Ozpazan T., BÜYÜKMUMCU Z., Akin N., İLHAN İ. Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1250, 2022 (SCI-Expanded)
- II. **Revisiting UF₆, NpF₆ and PuF₆ for bonding and molecular surface analysis within density functional theory: Comparative study at the different theory levels with the same basis set**
Buyukmumcu Z., Selampinar F.
POLYHEDRON, vol.209, 2021 (SCI-Expanded)
- III. **Synthesis and thermal properties of magnetite nano structures and DFT analysis of Fe₃O₄ cluster as its smallest representative unit***
Pekdur Ö. S., Yıdırım S., BÜYÜKMUMCU Z.
Journal of Molecular Structure, vol.1222, 2020 (SCI-Expanded)
- IV. **Synthesis and spectroscopic characterization and DFT study of benzyl 4-([1,1'-biphenyl]-4-yl)-**

- 2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**
Yildirim S., BÜYÜKMUMCU Z., Butcher R. J., ÇETİN G., ŞİMŞEK R.
JOURNAL OF MOLECULAR STRUCTURE, vol.1200, 2020 (SCI-Expanded)
- V. **Redetermination and Density Functional Studies of N,N-(Disulfanediyldibenzene-2,1-Diy) Dipyrindine-2-Carboxamide**
YILDIRIM S., BÜYÜKMUMCU Z., Dogan S. D., Butcher R. J.
JOURNAL OF STRUCTURAL CHEMISTRY, vol.59, no.8, pp.1797-1803, 2018 (SCI-Expanded)
- VI. **Redetermination and density functional studies of N,N'xx-(disulfanediyldibenzene-2,1-diy)dipyrindine-2-carboxamide**
Yıldırım S., Büyükmumcu Z., Doğan Ş. D., Butcher R. J.
Journal Of Structural Chemistry, vol.59, no.8, pp.1861-1867, 2018 (SCI-Expanded)
- VII. **Electrochemical oligomerization of selenophene and band structure of polyselenophene: A density functional theory study**
Ari H., Mihçioğur O., BÜYÜKMUMCU Z., MIHÇIÖKUR H., ÖZPOZAN T.
COMPUTATIONAL MATERIALS SCIENCE, vol.154, pp.65-74, 2018 (SCI-Expanded)
- VIII. **Vibrational spectroscopic study of isotopic effect on TcX₃⁺ and TcX₃OH (X: O, S and Se) by DFT**
Ari H., BÜYÜKMUMCU Z., ÖZPOZAN T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1165, pp.259-266, 2018 (SCI-Expanded)
- IX. **Synthesis, structural characterization and density functional studies of ethyl 4-(biphenyl-4-yl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate A nonmerohedral twinned structure**
YILDIRIM S., BÜYÜKMUMCU Z., Butcher R. J., Çetin G., Şımşek R., Şafak C.
Journal Of Molecular Structure, vol.1163, no.7, pp.161-166, 2018 (SCI-Expanded)
- X. **Comparison of DFT functionals for prediction of band gap of conjugated polymers and effect of HF exchange term percentage and basis set on the performance**
Ari H., BÜYÜKMUMCU Z.
COMPUTATIONAL MATERIALS SCIENCE, vol.138, pp.70-76, 2017 (SCI-Expanded)
- XI. **Theoretical analysis of TcO₃(OH), TcS₃(OH) and TcSe₃(OH)**
BÜYÜKMUMCU Z.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.310, no.3, pp.1223-1231, 2016 (SCI-Expanded)
- XII. **Theoretical and vibrational spectroscopic approach to keto-enol tautomerism in methy1-2-(4-methoxybenzoyl)-3-(4-methoxyphenyl)-3-oxopropanoylcarbamate**
Ari H., ÖZPOZAN T., BÜYÜKMUMCU Z., Kabacalı Y., Sacmacı M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1122, pp.48-61, 2016 (SCI-Expanded)
- XIII. **Vibrational and theoretical analysis of pentyl-4-benzoyl-1[2,4-dinitrophenyl]-5phenyl-1H-pyrazole-3-carboxylate**
Ari H., BÜYÜKMUMCU Z., ÖZPOZAN T., İLHAN I. Ö., BAHADIR O.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.110, pp.193-204, 2013 (SCI-Expanded)
- XIV. **Poly(3,4-propylenedioxythiophene)s as a Single Platform for Full Color Realization**
Dey T., Invernale M. A., Ding Y., BÜYÜKMUMCU Z., Sotzing G. A.
MACROMOLECULES, vol.44, no.8, pp.2415-2417, 2011 (SCI-Expanded)
- XV. **Poly(thieno[3,4-b]furan), a New Low Band Gap Polymer: Experiment and Theory**
Kumar A., Bokria J. G., BÜYÜKMUMCU Z., Dey T., Sotzing G. A.
MACROMOLECULES, vol.41, no.19, pp.7098-7108, 2008 (SCI-Expanded)
- XVI. **Monte Carlo calculation of the de-excitation of fission fragments of Cf-252(sf) within multimodal random neck rupture model**
Buyukmumcu Z., KILDIR M.
PHYSICAL REVIEW C, vol.74, no.5, 2006 (SCI-Expanded)
- XVII. **Poly(thieno[3,4-b]furan). A new low band gap conjugated polymer**
KUMAR A., Buyukmumcu Z., SOTZING G.

- MACROMOLECULES, vol.39, no.8, pp.2723-2725, 2006 (SCI-Expanded)
- XVIII. **Vibrational spectra, normal coordinate treatment and simulation of the vibrational spectra of piperazine glyoxime and its Co(III) complex**
Ozpozan T., KÜÇÜKUSTA D., BÜYÜKMUMCU Z.
JOURNAL OF MOLECULAR STRUCTURE, vol.661, pp.647-657, 2003 (SCI-Expanded)
- XIX. **Ternary particle yields in Cf-249(n(th),f)**
Tsekhanovich I., Buyukmumcu Z., Davi M., Denschlag H., Gonnenwein F., BOULYGA S.
PHYSICAL REVIEW C, vol.67, no.3, 2003 (SCI-Expanded)
- XX. **Mass and charge distributions in the very asymmetric mass region of the neutron induced fission of Np-238**
Tsekhanovich I., Denschlag H., Davi M., BÜYÜKMUMCU Z., Gonnenwein F., Oberstedt S., Faust H.
NUCLEAR PHYSICS A, vol.688, pp.633-658, 2001 (SCI-Expanded)
- XXI. **Mass and charge distributions in the very asymmetric thermal neutron induced fission of the odd-Z nucleus Am-242m**
Tsekhanovich I., Denschlag H. O., Davi M., BÜYÜKMUMCU Z., Wostheinrich M., Gonnenwein F., Oberstedt S., Faust H.
NUCLEAR PHYSICS A, vol.658, no.3, pp.217-239, 1999 (SCI-Expanded)
- XXII. **Possible exit channel effect on isomer yield ratios**
Kildir M., Mörel Z., Buyukmumcu Z., Erten H. N.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.221, pp.161-165, 1997 (SCI-Expanded)
- XXIII. **The diminution of the neutron odd-even effect due to prompt neutron emission in low energy nuclear fission**
BÜYÜKMUMCU Z., Kildir M.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.220, no.1, pp.27-30, 1997 (SCI-Expanded)
- XXIV. **Determination of pre-scission kinetic energy in low energy fission using Isotonic Charge Distribution Model**
BÜYÜKMUMCU Z., Kildir M., Aras N. K.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY-ARTICLES, vol.204, no.2, pp.275-284, 1996 (SCI-Expanded)
- XXV. **INFLUENCE OF EVEN NUCLEON NUMBERS AND CLOSED SHELLS ON MASS AND CHARGE-DISTRIBUTION IN LOW-ENERGY FISSION**
BÜYÜKMUMCU Z., ERTEN H. N., ARAS N. K.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY-ARTICLES, vol.181, no.1, pp.175-188, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **DFT Studies, Synthesis, Biological Activity And Crystal Structure of Tert-Butyl 4-([1,1'-Biphenyl]-4-Yl)-2-Methyl-5-Oxo-1,4,5,6,7,8-Hexahydroquinoline-3-Carboxylate**
YILDIRIM S., BÜYÜKMUMCU Z., Çetin G., ŞİMŞEK R., ŞAFAK O. C., Butcher R. J.
International Journal of Emerging Technology and Advanced Engineering, vol.9, no.5, pp.1-7, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Çekirdek Kimyası**
Büyükmumcu Z.
in: Kimya-Cilt 2, Mehmet TÜFEKÇİ, Serdar KARABÖCEK, Selami KARSLIOĞLU, Ahmet DEMİRBAŞ, Editor, Nobel Akademik Yayıncılık, Ankara, pp.934-969, 2014
- II. **Bazı Kimyasal Tepkime Çeşitleri**

Büyükmumcu Z.

in: Kimya-Cilt 1, Mehmet TÜFEKÇİ, Serdar KARABÖCEK, Selami KARSLIOĞLU, Ahmet DEMİRBAŞ, Editor, Nobel Akademik Yayıncılık, Ankara, pp.211-244, 2014

III. **Applied Mathematics for Physical Chemistry**

Büyükmumcu Z.

Nobel Yayın Dağıtım, Ankara, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **SYNTHESIS, CHARACTERIZATION, CRYSTAL STRUCTURE AND DFT ANALYSIS OF BENZYL 4-[2-FLUORO-4-(TRIFLUOROMETHYL)PHENYL]-2,6,6-TRIMETHYL-1,4,5,6,7,8-HEXAHYDROQUINOLINE-3-CARBOXYLATE**
Çetin G., ŞİMŞEK R., YILDIRIM S., BÜYÜKMUMCU Z., Butcher R. J.
3rd International Gazi Pharma Symposium Series |, Ankara, Turkey, 08 September 2021, pp.140-141
- II. **DFT Study of the Molecular Structure and Vibrational Analysis of Acadesine**
ARI H., ÖZPOZAN T., BÜYÜKMUMCU Z.
The 2nd International Congress on Advances in Bioscience and Biotechnology (ICABB), Podgorica, Serbia And Montenegro, 26 - 30 June 2018
- III. **Conformational and Vibrational Spectroscopic Analysis of Elafibranor by DFT**
ARI H., ÖZPOZAN T., BÜYÜKMUMCU Z.
The 2nd International Congress on Advances in Bioscience and Biotechnology (ICABB), Podgorica, Serbia And Montenegro, 26 - 30 June 2018
- IV. **DFT STUDIES, SYNTHESIS, BIOLOGICAL ACTIVITY AND CRYSTAL STRUCTURE OF TERT-BUTYL 4-([1,1'-BIPHENYL]-4-YL)-2-METHYL-5-OXO-1,4,5,6,7,8-HEXAHYDROQUINOLINE-3-CARBOXYLATE**
YILDIRIM S., BÜYÜKMUMCU Z., Çetin G., Şimşek R., Şafak C., Butcher R. J.
The International Conference on Material Science and Technology in Cappadocia (IMSTEC 2018), Nevşehir, Turkey, 17 - 19 September 2018, pp.289-294
- V. **DFT Calculations on Structural and Spectroscopic Properties of 1-(5-(4-methoxyphenyl)-3-phenyl-4,5-dihydro-1H-pyrazol-1-yl)ethan-1-one**
BÜYÜKMUMCU Z., ARI H., ÖZPOZAN T., Özdemir F., İLHAN İ. Ö.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- VI. **Assessment of DFT Functionals for Calculating Vibrational Frequencies of L-Amino Acids**
ARI H., ÖZPOZAN T., BÜYÜKMUMCU Z.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- VII. **N,3,5-triphenyl-4,5-dihydro-1H-pyrazole-1-carbox amide: Vibrational Spectroscopic Investigation and Quantum Chemical Calculations**
ÖZPOZAN T., ARI H., BÜYÜKMUMCU Z., AKIN N., İLHAN İ. Ö.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- VIII. **Vibrational Spectroscopic Investigation and DFT Studies on 4,6-diphenyl-6-hydroxy-1-[(1Z)-1-phenyl ethylidene] amino}tetrahydropyrimidin-2(1H)-one**
ARI H., ÖZPOZAN T., BÜYÜKMUMCU Z., AKIN N., İLHAN İ. Ö.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- IX. **Experimental and Molecular Modeling Investigation of Isopropyl 4-(Biphenyl-4-Yl)-2,6,6-Trimethyl-5-Oxo-1,4,5,6,7,8-Hexahydroquinoline-3-Carboxylate**
Yildirim S., Cetin G., BÜYÜKMUMCU Z., ŞİMŞEK R., Safak C., Butcher R. J., PAKDUR O. S.
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September

2017, vol.1935

- X. **Structural and Spectral Analyses of N,N'-(2,2'-Dithiodi-o-Phenylene)Bis-(Furan-2-Carboxamide)**
Yildirim S., BÜYÜKMUMCU Z., PEKDUR O. S., Butcher R. J., DOĞAN Ş. D.
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
- XI. **structural and spectral analyses of N,N'xx-(2,2'xx-Dithiodi-o-phenylene) bis(furan-2-carboxamide)**
YILDIRIM S., BÜYÜKMUMCU Z., pekdur ö. s., butcher r., DOĞAN Ş. D.
<http://tfd33.turkfizikdernegi.org>, Muğla, Turkey, 6 - 10 September 2017
- XII. **Experimental and Molecular Modeling Inverstigation of Isopropyl 4-(Biphenyl-4-yl)-2,6,6-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**
öztürk yıldırım s., ÇETİN G., BÜYÜKMUMCU Z., ŞİMŞEK R., GÜNDÜZ M. G., ŞAFAK O. C., butcher r. j., savař pekdur ö.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- XIII. **Time Dependent DFT Study of UV-Visible Spectrum of Polyselenophene Molecular Segment as a H2O Sensor**
BÜYÜKMUMCU Z., SELAMPINAR F.
III. International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), 26 - 29 September 2017
- XIV. **Heteroatom Effect on the Band Gap of Five Membered Fused Bicyclic Polymers**
ÖZPOZAN T., ARI H., BÜYÜKMUMCU Z.
III. International Turkish Congress on Molecular Spectroscopy (TURCMOS 2017), 26 - 29 August 2017
- XV. **Isotopic Effect on Vibrational Spectroscopic Studies of TcX3 and TcX3OH (X: O, S and Se): A DFT Study**
BÜYÜKMUMCU Z., ARI H., ÖZPOZAN T.
III. International Turkish Congress on Molecular Spectroscopy (TURCMOS 2017), 26 - 29 August 2017
- XVI. **Systematic Vibrational Study of Saturated Chain Alcohols by DFT**
ARI H., ÖZPOZAN T., BÜYÜKMUMCU Z.
III. International Turkish Congress on Molecular Spectroscopy (TURCMOS 2017), 26 - 29 August 2017
- XVII. **Isotopic Effect on Vibrational Spectra of TcX3+ and TcX3OH (X: O, S and Se): A DFT Study**
Büyükmumcu Z., Arı H., Özpozan T.
3rd International Turkish Congress on Molecular Spectroscopy, Muğla, Turkey, 26 - 29 August 2017, pp.111
- XVIII. **Time Dependent Density Functional Theory Analysis of Substituent Effect on Electronic Excitation Energies of Fused Bicyclic Dimers**
BÜYÜKMUMCU Z., Yerkaya T.
33rd European Congress on Molecular Spectroscopy, Szeged, Hungary, 30 July - 04 August 2016
- XIX. **Performance of DFT methods for band structure properties of conductive polymers**
Arı H., BÜYÜKMUMCU Z.
33rd European Congress on Molecular Spectroscopy, Szeged, Hungary, 30 July - 04 August 2016
- XX. **Evolution of Vibrational Spectrum during Oligomerization of Pyrrolo 3 4b pyrrole A DFT Study**
ARI H., MIHÇIÖKÜR Ö., BÜYÜKMUMCU Z.
Colloquium Spectroscopicum Internationale XXXIX, 29 August - 04 September 2015
- XXI. **235U(n,f)'de Bölünme Ürünlerinde Nötron Yayımının ve Tek-Çift Etkisinin Monte Carlo Metoduyla Hesaplanması**
BÜYÜKMUMCU Z., KILDIR M., Aras N. K.
XIV. Ulusal Spektroskopi Kongresi, Elazığ, Turkey, 29 - 31 May 2015, pp.34
- XXII. **DFT Study of Substituent Effect on The Band Structure of Bicyclic Conjugated Polymer**
BÜYÜKMUMCU Z., Kocatürk İ.
32nd European Congress on Molecular Spectroscopy (EUCMOS 2014), Düsseldorf, Germany, 24 - 29 August 2014, pp.283
- XXIII. **Theoretical Analysis of Substituent Effect on UV-Visible Spectrum of Poly(pyrrolo[3,4b]pyrrole)**
KOÇYİĞİT İ., BÜYÜKMUMCU Z.
International Turkish Congress on Molecular Spectroscopy, İstanbul, Turkey, 15 - 20 September 2013, pp.78
- XXIV. **Time-Dependent Density Functional Study on Variation of UV-Visible Spectrum of**

Poly(phospolo[3,4b]phosphole) as a Function of Substituent

BÜYÜKMUMCU Z., KOÇYİĞİT İ.

International Turkish Congress on Molecular Spectroscopy, İstanbul, Turkey, 15 - 20 September 2013, pp.77

- XXV. **Conformer Analysis of 4-Methyl-N-[2-Oxo-4-(4-Methylphenyl)-5-(4-Methylbenzoyl)pyrimidine-1(2H)-yl]Benzamide**
Aydın L., Şahan E., Özpozan T., Büyükmumcu Z., Önal Z.
2nd International Conference on Computation for Science and Technology (ICCSST-2), Niğde, Turkey, 9 - 11 July 2012
- XXVI. **Conformer Analysis of 4 Methyl N 2 oxo 4 4 methylphenyl 5 4 methylbenzoyl pyrimidin 1 2H yl benzamide**
AYDIN L., EMİNE Ş., KÖKBUDAK Z., ÖZPOZAN T., BÜYÜKMUMCU Z.
2nd International Conference on Computation for Science and Technology, 9 - 11 July 2012
- XXVII. **Density Functional Theory Analysis of 4-(p-Methylbenzoyl)-5-(p-methylphenyl)-2,3-furandione**
AYDIN L., BÜYÜKMUMCU Z., ÖZPOZAN T., ÖNAL Z.
Chemical Physics Congress IX, İzmir, Turkey, 14 - 16 October 2010, pp.7-8
- XXVIII. **Density Functional Theory Analysis of Isopentyl-4- benzoyl-1-[2,4-dinitrophenyl]-5-phenyl-1H-pyrazole -3- carboxylate**
ARI H., ÖZPOZAN T., BÜYÜKMUMCU Z., İLHAN I. Ö.
Chemical Physics Congress IX, İzmir, Turkey, 14 - 16 October 2010, pp.3-4
- XXIX. **Toward the use of poly(thieno[3,4-b]furan) as a novel light-harvesting material for organic photovoltaic cells**
Dey T., Bokria J. G., Navarathne D., Invernale M. A., BÜYÜKMUMCU Z., Sotzing G. A.
236th National Meeting of the American-Chemical-Society, Philadelphia, United States Of America, 17 - 21 August 2008, vol.236, pp.412
- XXX. **Optically Transparent Conducting Polymers from Fused Heterocycles**
Yavuz M. S., Kumar A., Lee B., Bokria J. G., Dey T., Seshadri V., Ner Y., BÜYÜKMUMCU Z., Sotzing G. A.
2006 MRS Fall Meeting Organic Electronics – Materials, Devices and Applications, Boston, Massachusetts, United States Of America, 27 November - 01 December 2006
- XXXI. **Bazı Polimerlerin Elektrokimyasal Polimerizasyonunun DFT ve PM3 İle Karşılaştırılmalı İncelenmesi**
Büyükmumcu Z., Arı H., Aslaner Ç., Engür T., Erol Mihçioğur Ö., Mihçioğur H., Özpozan T.
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006, pp.0-182
- XXXII. **Density Functional Theory Study of Geometry and Band Structure of Some Conducting Polymers**
BÜYÜKMUMCU Z., DAĞAŞAN H.
International Conference on Chemical Physics VII, Isparta, Turkey, 19 - 20 May 2006
- XXXIII. **Theoretical Analysis of Acetone-Chloroform Azeotrope**
ÖZPOZAN T., BÜYÜKMUMCU Z.
Chemical Physics VII- The seventh International Conference, Isparta, Turkey, 19 - 20 May 2006, pp.1-2
- XXXIV. **“Density Funct ional Theory Study of Electrochemical Polymerization of Poly(thieono[3,4b]furan)**
BÜYÜKMUMCU Z.
International Conference on Chemical Physics VII, Isparta, Turkey, 19 - 20 May 2006
- XXXV. **Titreşim Spektrumlarının Kuramsal Hesabı ve Simulasyonu**
ÖZPOZAN T., KÜÇÜKUSTA D., BÜYÜKMUMCU Z.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 13 September 2002
- XXXVI. **Multi-Modal Study of Angular Momentum Distribution of Fission Fragments as a Result of Bending Modes**
Özkan İ., BÜYÜKMUMCU Z., Sökmen H., Kıldır M.
The 2nd International Symposium On Advanced Science Research, Advances of Heavy Ion Research, Tokai, Ibaraki, Japan, 13 - 15 November 2001, pp.95-98
- XXXVII. **Düşük Enerjili Nükleer Fisyonunda Bölünme Öncesi Kinetik Enerjinin Belirlenmesi**
BÜYÜKMUMCU Z., KILDIR M., ARAS N. K.
VII. Ulusal Nükleer Bilimler ve Teknoloji Kongresi, İstanbul, Turkey, 3 - 06 September 1996

XXXVIII. Düşük Enerjili Nükleer Fisyonunda Çift-Tek Etkisi

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Metrics

Publication: 68

Citation (WoS): 226

Citation (Scopus): 110

H-Index (WoS): 9

H-Index (Scopus): 5

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