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Advising Theses

- TÜRKER B. L., Molecular modelling of some explosives and propellants, Doctorate, S.VARIŞ(Student), 2013
- TÜRKER B. L., Molecular design of some potential explosives, Doctorate, T.ATALAR(Student), 2009
- TÜRKER B. L., Investigation of novel topological indices and their applications in organic chemistry, Doctorate, S.GÜMÜŞ(Student), 2009
- TÜRKER B. L., A comparative study on chemical characterization of different ink ingredients used in ancient ornamented manuscripts, Postgraduate, E.MERT(Student), 2008
- TÜRKER B. L., A computational study on nitrotriazine derivatives, Postgraduate, Y.ÇAMUR(Student), 2008
- TÜRKER B. L., Archaeometrical studies on plasters of some historical buildings, Postgraduate, B.Devrim(Student), 2007
- TÜRKER B. L., Studies on selective adsorption of aqueous glucose or fructose on various cationic forms of zeolite Y, Postgraduate, S.BORA(Student), 2006
- TÜRKER B. L., Investigations of new horizons on H₂/O₂ proton exchange membrane fuel cells, Postgraduate, A.ÖZGÜR(Student), 2003
- TÜRKER B. L., Sodium, calcium, magnesium and hydrogen forms of zeolite Y for the adsorption of glucose and fructose from aqueous solutions, Postgraduate, M.HEPER(Student), 2002
- TÜRKER B. L., 1,3-dipolar cycloaddition reactions of some 3-aryl-phthalazinium-1-olates, Postgraduate, Ö.DİLEK(Student), 2001
- TÜRKER B. L., Synthesis and reactions of some benzofuroxars, Postgraduate, E.DURA(Student), 1999
- TÜRKER B. L., Studies on the long term memory of bacteriorhodopsin, Postgraduate, B.GÜRKAN(Student), 1997
- TÜRKER B. L., 1,3-dipolar cycloaddition reactions of substituted phthalazinium betaines, Doctorate, İ.Kayalidere(Student), 1995
- TÜRKER B. L., 1,3-dipolar cycloaddition reactions of kekule and non-kekule 3 -arylphthalazinium-1-olates /, Doctorate, N.ÇELEBİ(Student), 1992
- TÜRKER B. L., 1,3-dipolar cycloaddition reactions of various mesomeric betaines, Postgraduate, C.ORHUN(Student), 1991
- TÜRKER B. L., A Study on the sex pheromone of greater wax moth, galleria mellonella, Postgraduate, M.ÖZER(Student), 1989

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Interaction of TATB with Cu and Cu⁺. A DFT study**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.15, no.1, pp.27-37, 2019 (SCI-Expanded)
- II. **On the Possibility of Endohedrally Helium-doped TEX - A DFT Treatment**
TÜRKER B. L.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.644, no.18, pp.1096-1102, 2018 (SCI-Expanded)
- III. **Effect of magnesium on FOX-7 and its tautomers-A DFT treatment**
TÜRKER B. L.

- DEFENCE TECHNOLOGY, vol.14, no.3, pp.179-187, 2018 (SCI-Expanded)
- IV. **Chromium Bis(anthracene-(6)) Complexes - A DFT Study**
TÜRKER B. L.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.644, no.6, pp.330-336, 2018 (SCI-Expanded)
- V. **A DFT study on TNGU isomers and aluminized cis-TNGU composites**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.14, no.2, pp.109-118, 2018 (SCI-Expanded)
- VI. **Contemplation on some cyclic N-8 isomers-A DFT treatment**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.14, no.1, pp.19-27, 2018 (SCI-Expanded)
- VII. **Furoxan Derivatives of Pyrene - A DFT Study**
TÜRKER B. L.
POLYCYCLIC AROMATIC COMPOUNDS, vol.38, no.3, pp.257-271, 2018 (SCI-Expanded)
- VIII. **Structurally modified RDX - A DFT study**
TÜRKER B. L., Varis S.
DEFENCE TECHNOLOGY, vol.13, no.6, pp.385-391, 2017 (SCI-Expanded)
- IX. **Destructive effect of magnesium and calcium atoms on TEX**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.13, no.5, pp.367-375, 2017 (SCI-Expanded)
- X. **Trans-dinitroglycoluril isomers-A DFT treatment**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.13, no.1, pp.6-15, 2017 (SCI-Expanded)
- XI. **Thermobaric and enhanced blast explosives (TBX and EBX)**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.12, no.6, pp.423-445, 2016 (SCI-Expanded)
- XII. **Interaction of ADN with some group II and III elements**
TÜRKER B. L.
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.55, no.11, pp.1334-1341, 2016 (SCI-Expanded)
- XIII. **Azo-bridged triazoles: Green energetic materials**
TÜRKER B. L.
DEFENCE TECHNOLOGY, vol.12, no.1, pp.1-15, 2016 (SCI-Expanded)
- XIV. **Instability of CL-20 exposed to the effects of alpha-particle**
TÜRKER B. L.
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.54, no.7, pp.858-866, 2015 (SCI-Expanded)
- XV. **Directional Interactions of alpha-Particles with FOX-7. A DFT Study**
TÜRKER B. L.
PROPELLANTS EXPLOSIVES PYROTECHNICS, vol.40, no.2, pp.180-184, 2015 (SCI-Expanded)
- XVI. **On the Possibility of Autoxidation of TEX - A DFT Study**
TÜRKER B. L., Varis S.
PROPELLANTS EXPLOSIVES PYROTECHNICS, vol.40, no.1, pp.81-87, 2015 (SCI-Expanded)
- XVII. **Interaction of TNT and Aluminum - A DFT Treatment**
TÜRKER B. L.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.641, no.2, pp.408-413, 2015 (SCI-Expanded)
- XVIII. **Interaction of an alpha-Particle with TATB**
TÜRKER B. L., Varis S.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.640, pp.1727-1731, 2014 (SCI-Expanded)
- XIX. **JP-900 Hydroperoxidation and Decomposition**
TÜRKER B. L., Varis S.
PROPELLANTS EXPLOSIVES PYROTECHNICS, vol.39, no.2, pp.211-216, 2014 (SCI-Expanded)

- XX. **Possible Complex between TNT and Epinephrine - A DFT Study**
TÜRKER B. L., Varis S.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.640, no.2, pp.334-338, 2014 (SCI-Expanded)
- XXI. **Nitro Derivatives of Parabanic Acid as Potential Explosives: A Theoretical Study**
TÜRKER B. L., Varis S.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.640, no.1, pp.208-212, 2014 (SCI-Expanded)
- XXII. **Contemplation on the Protonation of TEX**
TÜRKER B. L.
CENTRAL EUROPEAN JOURNAL OF ENERGETIC MATERIALS, vol.11, no.2, pp.307-319, 2014 (SCI-Expanded)
- XXIII. **Novel RDX-Based Cage and Cage-Like Nitramines**
TÜRKER B. L., Bayar C. C., Turhan H.
JOURNAL OF ENERGETIC MATERIALS, vol.31, no.4, pp.287-300, 2013 (SCI-Expanded)
- XXIV. **A DFT Study on Estrone - TNT Interaction**
TÜRKER B. L., Bayar C. C.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.639, no.10, pp.1871-1875, 2013 (SCI-Expanded)
- XXV. **Prediction of Explosive Performance Properties of z- DBBD and Its Isomers by Quantum Chemical Computations**
TÜRKER B. L., Varis S.
JOURNAL OF ENERGETIC MATERIALS, vol.31, no.3, pp.203-216, 2013 (SCI-Expanded)
- XXVI. **Effects of Epoxidation and Nitration on Ballistic Properties of FOX-7 A DFT Study**
TÜRKER B. L., Varis S.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.639, no.6, pp.982-987, 2013 (SCI-Expanded)
- XXVII. **A theoretical study of JP-10 hydroperoxidation**
TÜRKER B. L., Varis S., Bayar C. C.
FUEL, vol.104, pp.128-132, 2013 (SCI-Expanded)
- XXVIII. **DFT study of tautomerism in aklavinone**
Turker B. L.
TURKISH JOURNAL OF CHEMISTRY, vol.37, no.4, pp.547-557, 2013 (SCI-Expanded)
- XXIX. **A Computational View of PATO and its Tautomers**
TÜRKER B. L., Bayar C. C.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.638, no.9, pp.1316-1322, 2012 (SCI-Expanded)
- XXX. **A Model Study on the Possible Effects of an External Electrical Field on Enzymes Having Dinuclear Iron Cluster [2Fe-2S]**
TÜRKER B. L.
SCIENTIFIC WORLD JOURNAL, 2012 (SCI-Expanded)
- XXXI. **Borazine-Embedded Coronene-A DFT Study**
TÜRKER B. L.
POLYCYCLIC AROMATIC COMPOUNDS, vol.32, no.1, pp.61-74, 2012 (SCI-Expanded)
- XXXII. **Tautomerism in 11-Hydroxyaklavinone: A DFT Study**
TÜRKER B. L.
SCIENTIFIC WORLD JOURNAL, 2012 (SCI-Expanded)
- XXXIII. **Interaction between TNT and Melatonin-DFT Treatment**
TÜRKER B. L., Atalar T.
POLYCYCLIC AROMATIC COMPOUNDS, vol.32, no.5, pp.615-625, 2012 (SCI-Expanded)
- XXXIV. **NTO-Picryl Constitutional Isomers-A DFT Study**
TÜRKER B. L., Bayar C. C.
JOURNAL OF ENERGETIC MATERIALS, vol.30, no.1, pp.72-96, 2012 (SCI-Expanded)
- XXXV. **Isomeric Structures of Furoxan-Fused [2,2]paracyclophane-A DFT Study**
TÜRKER B. L., Gümüş S.

- POLYCYCLIC AROMATIC COMPOUNDS, vol.32, no.4, pp.487-502, 2012 (SCI-Expanded)
- XXXVI. **A Trigonometric Approach to a Limiting Law on Detonation Velocity**
TÜRKER B. L.
MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY, vol.67, no.1, pp.127-146, 2012 (SCI-Expanded)
- XXXVII. **Desensitization of TNAZ via Molecular Structure Modification and Explosive Properties - A DFT Study**
TÜRKER B. L., Varis S.
ACTA CHIMICA SLOVENICA, vol.59, no.4, pp.749-759, 2012 (SCI-Expanded)
- XXXVIII. **A novel molecular descriptor, TG index, for calculating the detonation properties of explosives**
TÜRKER B. L., Gümüş S.
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.50, no.2, pp.141-148, 2011 (SCI-Expanded)
- XXXIX. **Isomerization of 4,6-Dinitrobenzofuroxan A DFT Study**
TÜRKER B. L.
JOURNAL OF ENERGETIC MATERIALS, vol.29, no.2, pp.127-149, 2011 (SCI-Expanded)
- XL. **A First-Order Linear Model for the Estimation of Detonation Velocity**
TÜRKER B. L.
JOURNAL OF ENERGETIC MATERIALS, vol.29, no.1, pp.7-25, 2011 (SCI-Expanded)
- XLI. **A DFT Study on Push-Pull (Amino-Nitro) Fulminenes and Hexahelicenes**
TÜRKER B. L., Bayar C. C., Balaban A. T.
POLYCYCLIC AROMATIC COMPOUNDS, vol.30, no.2, pp.91-111, 2010 (SCI-Expanded)
- XLII. **A DFT Study on Benzotrifuroxan and its Isomers**
TÜRKER B. L.
POLYCYCLIC AROMATIC COMPOUNDS, vol.30, no.1, pp.44-60, 2010 (SCI-Expanded)
- XLIII. **A DFT Study on Nitro Derivatives of Pyridine**
TÜRKER B. L., Gumus S., Atalar T.
JOURNAL OF ENERGETIC MATERIALS, vol.28, no.2, pp.139-171, 2010 (SCI-Expanded)
- XLIV. **Structural and Molecular Orbital Studies of Si-Phenyl Silanthracenes**
TÜRKER B. L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.30, no.2, pp.61-74, 2010 (SCI-Expanded)
- XLV. **Velocity of Detonation-A Mathematical Model**
TÜRKER B. L.
ACTA CHIMICA SLOVENICA, vol.57, no.2, pp.288-296, 2010 (SCI-Expanded)
- XLVI. **Contemplation on spark sensitivity of certain nitramine type explosives**
TÜRKER B. L.
JOURNAL OF HAZARDOUS MATERIALS, vol.169, pp.454-459, 2009 (SCI-Expanded)
- XLVII. **Tunneling effect and impact sensitivity of certain explosives**
TÜRKER B. L.
JOURNAL OF HAZARDOUS MATERIALS, vol.169, pp.819-823, 2009 (SCI-Expanded)
- XLVIII. **A DFT study on nitrotriazines**
TÜRKER B. L., Atalar T., Gumus S., Camur Y.
JOURNAL OF HAZARDOUS MATERIALS, vol.167, pp.440-448, 2009 (SCI-Expanded)
- XLIX. **A theoretical study on vomitoxin and its tautomers**
TÜRKER B. L., Guemues S.
JOURNAL OF HAZARDOUS MATERIALS, vol.163, no.1, pp.285-294, 2009 (SCI-Expanded)
- L. **Computational studies on nitratoethylnitramine (NENA), its tautomers and charged forms**
TÜRKER B. L., Atalar T.
JOURNAL OF HAZARDOUS MATERIALS, vol.162, no.1, pp.193-203, 2009 (SCI-Expanded)
- LI. **A COMPUTATIONAL STUDY ON SOME SELENIUM-CONTAINING NAPHTHALENE DERIVATIVES**
TÜRKER B. L.

- POLYCYCLIC AROMATIC COMPOUNDS, vol.29, no.5, pp.315-332, 2009 (SCI-Expanded)
- LII. **A REVIEW OF POLYCYCLIC AROMATIC ENERGETIC MATERIALS**
TÜRKER B. L., Varis S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, no.4, pp.228-266, 2009 (SCI-Expanded)
- LIII. **ELECTROLUMINESCENT PROPERTIES OF CERTAIN POLYAROMATIC COMPOUNDS: PART 2-ORGANIC EMITTERS**
TÜRKER B. L., Tapan A., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, no.3, pp.139-159, 2009 (SCI-Expanded)
- LIV. **DFT Studies on $\eta(6)$ -Coronene-Cr(CO)(3) Complexes**
TÜRKER B. L., Guemues S.
ACTA CHIMICA SLOVENICA, vol.56, no.1, pp.246-253, 2009 (SCI-Expanded)
- LV. **Structure-Impact Sensitivity Relation of Certain Explosive Compounds**
TÜRKER B. L.
JOURNAL OF ENERGETIC MATERIALS, vol.27, no.2, pp.94-109, 2009 (SCI-Expanded)
- LVI. **ELECTROLUMINESCENT PROPERTIES OF CERTAIN POLYAROMATIC COMPOUNDS: PART 1-CHARACTERISTICS OF OLED DEVICES BASED ON FLUORESCENT POLYAROMATIC DOPANTS**
TÜRKER B. L., Tapan A., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, no.3, pp.123-138, 2009 (SCI-Expanded)
- LVII. **A THEORETICAL STUDY ON SOME (1,4)CYCLOPHANES**
TÜRKER B. L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, no.2, pp.103-122, 2009 (SCI-Expanded)
- LVIII. **Ab initio and dft studies on certain $\eta(6)$ -Anthraquinone-Cr(CO)(3) complexes**
TÜRKER B. L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.28, no.3, pp.181-192, 2008 (SCI-Expanded)
- LIX. **A theoretical study on nitrourea and its tautomers**
TÜRKER B. L., Gumus S., Atalar T., Atlanel S.
JOURNAL OF ENERGETIC MATERIALS, vol.26, no.3, pp.181-195, 2008 (SCI-Expanded)
- LX. **Positional effect of nitrogen substitution on a certain perylene chromophore - A semiempirical treatment**
TÜRKER B. L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.28, no.1, pp.4-14, 2008 (SCI-Expanded)
- LXI. **Ab initio and density functional theory studies on nitrosoketene tautomers**
TÜRKER B. L., Atalar T.
ACTA CHIMICA SLOVENICA, vol.55, no.1, pp.146-153, 2008 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **A DFT study on disubstituted R-hexahelicenes having donor/acceptor groups**
TÜRKER B. L., Bayar C. C.
International Conference on Computational Science (ICCS), Amsterdam, Netherlands, 31 May - 02 June 2010, vol.1, pp.1149-1158

Supported Projects

TÜRKER B. L., ÇALIŞGAN G., AKDAĞ A., ÖZTÜRK P., Project Supported by Higher Education Institutions, Hexanitrostilbene sentezinin teorik ve deneysel incelenmesi, 2016 - 2016

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