

Prof. Selçuk Gümüş

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Education Information

Doctorate, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya / Organik Kimya, Turkey 2002 - 2009

Under Graduate, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1995 - 2000

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Organic Chemistry, Chemistry of Aromatic Compounds, Chemistry of Dyes and Pigments, Organic Reaction Mechanisms, Organic Spectroscopy, Organometallics, Natural Sciences

Academic Titles / Tasks

Professor, Van Yüzüncü Yil University, Fen Fakültesi, Kimya, 2018 - Continues

Associate Professor, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, 2013 - 2018

Assistant Professor, Van Yüzüncü Yil University, Fen Fakültesi, Kimya, 2010 - 2013

Research Assistant PhD, Van Yüzüncü Yil University, Fen Fakültesi, Kimya, 2010 - 2010

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya, 2000 - 2010

Professional Experience

BAP Scientific Commissioner, Van Yüzüncü Yil University, 2019 - Continues

Rectorate Commissioner, Van Yüzüncü Yil University, Araştırma-Geliştirme Alt Komisyonu Başkanı, 2019 - Continues

Board Member, Van Yüzüncü Yil University, Bilim Uygulama Ve Araştırma Merkezi Yönetim Kurulu Başkanı, 2018 - Continues

BAP Subcommittee Member, Van Yüzüncü Yil University, 2018 - Continues

Advising Theses

Gümüş S., Mono ve Diazaantrasen Türevlerinin Aromatikliğinin İncelenmesi, Post Graduate, A.Köle(Student), 2018

Gümüş S., YENİ MONO VE BİS-TRIAZOL TÜREVLERİNİN SENTEZİ VE HESAPSAL KİMYA UYGULAMALARI, Doctorate,

N.Karakoyun(Student), 2018

Gümüş S., TRİ VE TETRAAZANAFTALİN TÜREVLERİNİN AROMATİKLİĞİNİN İNCELENMESİ, Post Graduate, M.AVCI(Student), 2016

Gümüş S., Çevre Dostu Enerjetik Materyallerin Dekompozisyon Mekanizmalarının Teorik Olarak İncelenmesi, Post Graduate, R.UYGUR(Student), 2016

Gümüş S., 1,3,5-TRİAZİN TABANLI ORGANİK ELEKTROLUMİNESANT MOLEKÜLLERİN ELEKTRONİK ÖZELLİKLERİNİN BELİRLENMESİ, Post Graduate, E.ARVAS(Student), 2014

Gümüş S., CLICK TPKİMESİ MEKANİZMASININ TEORİK OLARAK İNCELENMESİ, Doctorate, Z.Şilan(Student), 2014

Jury Memberships

Doctorate, Doktora tez savunması, Atatürk Üniversitesi, September, 2018

Post Graduate, Tez Savunma, Van Yüzüncü Yıl Üniversitesi, December, 2017

Post Graduate, Tez Savunma Jürisi, YÜZÜNCÜ YIL ÜNİVERSİTESİ, May, 2016

Post Graduate, Tez Savunma Jürisi, ATATÜRK ÜNİVERSİTESİ, May, 2015

Post Graduate, Tez Savunma Jürisi, YÜZÜNCÜ YIL ÜNİVERSİTESİ, January, 2014

Post Graduate, Tez Savunma Jürisi, YÜZÜNCÜ YIL ÜNİVERSİTESİ, April, 2013

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

- I. **Synthesis, biological evaluation of antioxidant-antibacterial activities and computational studies of novel anthracene- and pyrene-based Schiff base derivatives**
Gümüş A., Okumuş V., Gümüş S.
Turkish Journal Of Chemistry, vol.44, pp.1200-1215, 2020 (Journal Indexed in SCI Expanded)
- II. **NOVEL PYRAZOLE-CENTERED DERIVATIVES HAVING MONO/DI CHIRAL CENTERED GROUP AS ORGANOCATALYST FOR HENRY REACTION**
Çetin A., Bildirici İ., Gümüş S.
Macedonian Journal Of Chemistry And Chemical Engineering, vol.39, pp.17-30, 2020 (Journal Indexed in SCI Expanded)
- III. **INVESTIGATION OF TADF PROPERTIES OF NOVEL DONOR-ACCEPTOR TYPE PYRAZINE DERIVATIVES**
İRAK Z. Ş. T. , Gümüş A., Gümüş S.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.64, pp.4303-4309, 2019 (Journal Indexed in SCI)
- IV. **The solvatochromism and electronic structure of (E)-2-(2-hydroxystyryl)quinolin-8-ol**
Gümüş A., Gulseven Sıdır Y., SİDIR İ., Gümüş S.
TURKISH JOURNAL OF CHEMISTRY, vol.43, pp.1503-1521, 2019 (Journal Indexed in SCI)
- V. **Synthesis, Characterization, DFT Studies, and Photodiode Application of Azo-azomethine-Based Ligand and Its Transition-Metal Complexes**
Tombak A., İmer A. G. , Syan R. H. B. , Gülcan M., Gümüş S., OCAK Y. S.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, pp.7240-7250, 2018 (Journal Indexed in SCI)
- VI. **SYNTHESIS, SOLVATOCHROMISM, ELECTRONIC STRUCTURE AND NONLINEAR OPTIC PROPERTIES OF QUINOLIN-8-YL-2-HYDROXYBENZOATE**
Gümüş A., Gülseven Sıdır Y., Sıdır İ., Gümüş S.
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.37, pp.145-158, 2018 (Journal Indexed in SCI Expanded)
- VII. **The investigation of sky-blue emitting anthracene-carbazole derivatives: Synthesis, photophysics and OLED applications**
Haykir G., AYDEMİR M., Han S. H. , Gümüş S., Hızal G., Lee J. Y. , Turksoy F.
ORGANIC ELECTRONICS, vol.59, pp.319-329, 2018 (Journal Indexed in SCI)
- VIII. **Synthesis of bis(thiosemicarbazone) derivatives: Definition, crystal structure, biological potential**

and computational analysis

Ates D., Gulcan M., Gumus S., Sekerci M., Ozdemir S., Sahin E., Colak N.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.193, pp.14-22, 2018 (Journal Indexed in SCI)

- IX. **Synthesis and antioxidant, aggregation, and electronic properties of 6-tert-butyl-1,4-benzodioxine substituted phthalocyanines**
Ağırtaş M. S., Cabir B., Gümüş S., Ozdemir S., Dundar A.
TURKISH JOURNAL OF CHEMISTRY, vol.42, pp.100-111, 2018 (Journal Indexed in SCI)
- X. **Synthesis of 2-substituted 8-propargyloxyquinoline derivatives and determination of their antioxidant, antibacterial, and DNA binding activities**
Gümüş A., OKUMUŞ V., Gümüş S.
TURKISH JOURNAL OF CHEMISTRY, vol.42, pp.1358-1369, 2018 (Journal Indexed in SCI)
- XI. **Design, stereoselective synthesis and computational calculations of novel hybrid compounds via Pauson-Khand reactions**
Gümüş S., Aslan N., Buyukadali N. N., Gümüş A.
TETRAHEDRON-ASYMMETRY, vol.28, pp.479-484, 2017 (Journal Indexed in SCI)
- XII. **A COMPUTATIONAL STUDY ON A SERIES OF PHENANTHRENE AND PHENANTHROLINE BASED POTENTIAL ORGANIC PHOTOVOLTAICS**
Gümüş A., Gümüş S.
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.36, pp.239-249, 2017 (Journal Indexed in SCI)
- XIII. **Stereoselective synthesis of benzofuran and benzothiophene substituted dihydropyran derivatives via ring closing metathesis**
Buyukadali N. N., Aslan N., Gümüş S., Gümüş A.
TETRAHEDRON-ASYMMETRY, vol.27, pp.954-959, 2016 (Journal Indexed in SCI)
- XIV. **Hydroxyl group effect in novel NNN type pyridine based ruthenium (II) complex for the transfer hydrogenation of ketones**
Sahin I., Emir S., İSPİR E., Karakaya I., Gümüş S., Ulusoy M., KARABUĞA Ş.
CATALYSIS COMMUNICATIONS, vol.85, pp.30-33, 2016 (Journal Indexed in SCI)
- XV. **Synthesis of metallophthalocyanines with four oxy-2,2-diphenylacetic acid substituents and their structural and electronic properties**
Abdalrazaq S. M., Cabir B., Gümüş S., Ağırtaş M. S.
HETEROCYCLIC COMMUNICATIONS, vol.22, pp.275-280, 2016 (Journal Indexed in SCI)
- XVI. **Isoquinoline-substituted triazole and pyran derivatives: synthesis and computational studies**
Yenedede D., Gümüş S., Gümüş A.
TURKISH JOURNAL OF CHEMISTRY, vol.40, pp.655-666, 2016 (Journal Indexed in SCI)
- XVII. **Synthesis, Aggregation Behavior, and Electronic Properties of some Metallophthalocyanines with 2-Isopropyl-5-methylphenoxy Substituents**
Ağırtaş M. S., KARATAS C., Gümüş S.
ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.641, pp.1334-1339, 2015 (Journal Indexed in SCI)
- XVIII. **Synthesis of Some Novel Phthalocyanines with Methyl 2-(oxy)-2,2-diphenylacetate Substituents, Evaluation of Their Antioxidant- Antibacterial Activities and Electronic Properties**
Ağırtaş M. S., KARATAS C., Gümüş S., Okumus V.
ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.641, pp.442-447, 2015 (Journal Indexed in SCI)
- XIX. **Efficient transfer hydrogenation reactions with quinazoline-based ruthenium complexes**
Karabuga S., Bars S., Karakaya I., Gümüş S.
TETRAHEDRON LETTERS, vol.56, pp.101-104, 2015 (Journal Indexed in SCI)
- XX. **Synthesis and investigation of intra-molecular charge transfer state properties of novel donor-acceptor-donor pyridine derivatives: the effects of temperature and environment on molecular**

configurations and the origin of delayed fluorescence

Aydemir M., HAYKIR G., TURKSOY F., Gümüş S., Dias F. B., Monkman A. P.

PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.17, pp.25572-25582, 2015 (Journal Indexed in SCI)

- XXI. **Metallo and metal free phthalocyanines bearing (4-(1(4-phenoxyphenyl)-1-phenylethyl)phenol substituents: Synthesis, characterization, aggregation behavior, electronic, antioxidant and antibacterial properties**
Ağırtaş M. S., GUVEN M. E., Gümüş S., Ozdemir S., Dundar A.
SYNTHETIC METALS, vol.195, pp.177-184, 2014 (Journal Indexed in SCI)
- XXII. **Metallo Phthalocyanines bearing 2-Isopropyl-6-methylpyrimidin-4-yloxy Substituents: Synthesis, Characterization, Aggregation Behavior, Antioxidant and Antibacterial Activity, and Electronic Properties**
Ağırtaş M. S., DEDE E., Gümüş S., Dundar A., Okumus V.
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.640, pp.1953-1959, 2014 (Journal Indexed in SCI)
- XXIII. **TG Index, its Graphical Matrix Representation and Application on Polyenes**
Gümüş S., Turker L.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.35, pp.1413-1416, 2014 (Journal Indexed in SCI)
- XXIV. **New water soluble phenoxy phenyl diazenyl benzoic acid substituted phthalocyanine derivatives: Synthesis, antioxidant activities, atypical aggregation behavior and electronic properties**
Ağırtaş M. S., Çelebi M., Gümüş S., Ozdemir S., Okumus V.
DYES AND PIGMENTS, vol.99, pp.423-431, 2013 (Journal Indexed in SCI)
- XXV. **A Computational Study on Substituted and Unsubstituted Mono and Diazaanthracenes**
Gümüş S., AKBAY M.
POLYCYCLIC AROMATIC COMPOUNDS, vol.33, pp.519-532, 2013 (Journal Indexed in SCI)
- XXVI. **A computational study on azaazulenes**
Gumus S.
HETEROCYCLIC COMMUNICATIONS, vol.19, pp.369-373, 2013 (Journal Indexed in SCI)
- XXVII. **Synthesis, Characterization, and Theoretical Studies on Some Metallophthalocyanines With Octakis Phenoxyacetamide Substituents**
Ağırtaş M. S., Gümüş S.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.43, pp.628-634, 2013 (Journal Indexed in SCI)
- XXVIII. **Computational Study on All Possible Diamino-Dinitropyrimidines and Their Mono- and Dioxide Derivatives**
Gumus S., ATALAR T.
JOURNAL OF ENERGETIC MATERIALS, vol.30, pp.335-357, 2012 (Journal Indexed in SCI)
- XXIX. **Substituent effect on the aromaticity of 1,3-azole systems**
Gümüş S., Turker L.
HETEROCYCLIC COMMUNICATIONS, vol.18, pp.11-16, 2012 (Journal Indexed in SCI)
- XXX. **Isomeric Structures of Furoxan-Fused [2,2]paracyclophane-A DFT Study**
Turker L., Gümüş S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.32, pp.487-502, 2012 (Journal Indexed in SCI)
- XXXI. **OH Radical Reactions with Nitroimidazole and Nitrotriazole Derivatives**
Gumus S.
JOURNAL OF ENERGETIC MATERIALS, vol.30, pp.156-168, 2012 (Journal Indexed in SCI)
- XXXII. **A novel molecular descriptor, TG index, for calculating the detonation properties of explosives**
Turker L., Gümüş S.
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.50, pp.141-148, 2011 (Journal Indexed in SCI)
- XXXIII. **The aromaticity of substituted diazanaphthalenes**
Gumus S.

- COMPUTATIONAL AND THEORETICAL CHEMISTRY, vol.963, pp.263-267, 2011 (Journal Indexed in SCI)
- XXXIV. **A computational study on substituted diazabenzenes**
Gumus S.
TURKISH JOURNAL OF CHEMISTRY, vol.35, pp.803-808, 2011 (Journal Indexed in SCI)
- XXXV. **Synthesis of Some Novel Pyrimidine Derivatives and Investigation of their Electrochemical Behavior**
Akbaş E., Levent A., Gümüş S., SUMER M. R. , AKYAZI I.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.31, pp.3632-3638, 2010 (Journal Indexed in SCI)
- XXXVI. **Studies on the Different Reaction Pathways between 3-Acetyl-5-benzoyl-6-methyl-2-phenyl-4H-pyran-4-one and Alkylamines**
Genç H., Tan M., Gümüş S., Mengeş N., Bildirici İ., ŞENER A.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.31, pp.2633-2636, 2010 (Journal Indexed in SCI)
- XXXVII. **Biocatalytic carboxylation**
GLUECK S. M. , Guemues S., FABIAN W. M. F. , FABER K.
CHEMICAL SOCIETY REVIEWS, vol.39, pp.313-328, 2010 (Journal Indexed in SCI)
- XXXVIII. **Structural and Molecular Orbital Studies of Si-Phenyl Silaanthracenes**
Turker L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.30, pp.61-74, 2010 (Journal Indexed in SCI)
- XXXIX. **A DFT Study on Nitro Derivatives of Pyridine**
Turker L., Gumus S., Atalar T.
JOURNAL OF ENERGETIC MATERIALS, vol.28, pp.139-171, 2010 (Journal Indexed in SCI)
- XL. **Structural and Molecular Orbital Properties of Some Boroxine Derivatives-A Theoretical Study**
Türker L., Gümüş S., Atalar T.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.30, pp.2233-2239, 2009 (Journal Indexed in SCI Expanded)
- XLI. **A DFT study on nitrotriazines**
Turker L., Atalar T., Gumus S., Camur Y.
JOURNAL OF HAZARDOUS MATERIALS, vol.167, pp.440-448, 2009 (Journal Indexed in SCI)
- XLII. **A theoretical study on vomitoxin and its tautomers**
Tuerker L., Guemues S.
JOURNAL OF HAZARDOUS MATERIALS, vol.163, pp.285-294, 2009 (Journal Indexed in SCI)
- XLIII. **1,3-Dipolar Cycloaddition Reactions of 1-Methyl-3-Oxidopyridinium Betaine with C-70-A Theoretical Study**
Turker L., Gumus S.
JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, vol.6, pp.873-879, 2009 (Journal Indexed in SCI)
- XLIV. **ELECTROLUMINESCENT PROPERTIES OF CERTAIN POLYAROMATIC COMPOUNDS: PART 2-ORGANIC EMITTERS**
Turker L., Tapan A., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, pp.139-159, 2009 (Journal Indexed in SCI)
- XLV. **ELECTROLUMINESCENT PROPERTIES OF CERTAIN POLYAROMATIC COMPOUNDS: PART 1-CHARACTERISTICS OF OLED DEVICES BASED ON FLUORESCENT POLYAROMATIC DOPANTS**
Turker L., Tapan A., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, pp.123-138, 2009 (Journal Indexed in SCI)
- XLVI. **DFT Studies on eta(6)-Coronene-Cr(CO)(3) Complexes**
Tuerker L., Guemues S.
ACTA CHIMICA SLOVENICA, vol.56, pp.246-253, 2009 (Journal Indexed in SCI)
- XLVII. **A THEORETICAL STUDY ON SOME (1,4)CYCLOPHANES**
Turker L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.29, pp.103-122, 2009 (Journal Indexed in SCI)
- XLVIII. **COMPUTATIONAL STUDIES ON NOVEL ENERGETIC MATERIALS: TETRANITRO-[2,2]PARACYCLOPHANES**
Tuerker L., Atalar T., Guemues S.

- POLYCYCLIC AROMATIC COMPOUNDS, vol.29, pp.289-314, 2009 (Journal Indexed in SCI)
- XLIX. **Biohydrogen production: molecular aspects**
Turker L., Gumus S., Tapan A.
JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.67, pp.994-1016, 2008 (Journal Indexed in SCI)
- L. **Quantum chemical treatment of nivalenol and its tautomers**
Turker L., Gumus S.
JOURNAL OF HAZARDOUS MATERIALS, vol.153, pp.329-339, 2008 (Journal Indexed in SCI)
- LI. **Positional effect of nitrogen substitution on a certain perylene chromophore - A semiempirical treatment**
Turker L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.28, pp.4-14, 2008 (Journal Indexed in SCI)
- LII. **A theoretical study on nitrourea and its tautomers**
Turker L., Gumus S., Atalar T., Atlanel S.
JOURNAL OF ENERGETIC MATERIALS, vol.26, pp.181-195, 2008 (Journal Indexed in SCI)
- LIII. **Ab initio and dft studies on certain eta(6)-Anthraquinone-Cr(CO)(3) complexes**
Turker L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.28, pp.181-192, 2008 (Journal Indexed in SCI)
- LIV. **Molecular orbital treatment of some endohedrally doped C-60 systems**
Türker L., Gumus S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.26, pp.145-162, 2006 (Journal Indexed in SCI)
- LV. **AM1, MNDO and MINDO/3 treatments of Huckel type cyclacenes**
Tuerker L., Guemues S.
POLYCYCLIC AROMATIC COMPOUNDS, vol.26, pp.367-384, 2006 (Journal Indexed in SCI)
- LVI. **Hydrogen storage capacity of Mg@C-120 system**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.719, pp.103-107, 2005 (Journal Indexed in SCI)
- LVII. **Peripherally B and N substituted cyclacenes**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.686, pp.91-95, 2004 (Journal Indexed in SCI)
- LVIII. **Cyclacenes**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.685, pp.1-33, 2004 (Journal Indexed in SCI)
- LIX. **A quire behavior of (Li+nH(2))@C-58 systems - an AM 1 treatment**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.684, pp.205-209, 2004 (Journal Indexed in SCI)
- LX. **AM 1 treatment of endohedrally hydrogen doped C-56 systems, nH(2)@C-56**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.681, pp.21-25, 2004 (Journal Indexed in SCI)
- LXI. **Mono, B, N, Si, or Ge substituted cyclacenes. A theoretical study**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.679, pp.143-147, 2004 (Journal Indexed in SCI)
- LXII. **Cyclacenes having mono boron or nitrogen atom in the backbone - a theoretical study**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.674, pp.185-189, 2004 (Journal Indexed in SCI)
- LXIII. **An AM1 study on C-60@C-180 system**
Türker L., Gumus S.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.674, pp.15-18, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Investigation of the aromaticity of mono, di, tri and tetraazaphenanthrene derivatives**
Ozturk E., İRAK Z. Ş. T. , Karakoyun N., Gümüş A., Gümüş S.
PHYSICAL SCIENCES REVIEWS, vol.5, 2020 (Journal Indexed in ESCI)
- II. **(E)-2-((Fenilimino)metil) Fenol Molekülünün Teorik Olarak İncelenmesi**
Öztürk E., Turhan Irak Z., Gümüş S.
İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.9, pp.407-414, 2019 (National Refreed University Journal)
- III. **Potential thermally activated delayed fluorescence properties of a series of 2,3-dicyanopyrazine based compounds**
Gümüş A., Gümüş S.
PHYSICAL SCIENCES REVIEWS, vol.3, 2018 (Journal Indexed in ESCI)
- IV. **A Computational Study on Tri and Tetraazaanthracenes**
Köle A., Gümüş S.
Modern Organic Chemistry Research, vol.3, no.2, pp.23-29, 2018 (Refereed Journals of Other Institutions)
- V. **Siklik Alken Türevlerinin Karbenler ile Siklopropanasyon Tepkimelerinin Teorik Olarak İncelenmesi**
Gümüş S., Gümüş A., Turhan Irak Z.
Kafkas Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.57-69, 2017 (National Refreed University Journal)
- VI. **Donör-Akseptör Gruplar İçeren Bazı Heterosiklik Bileşiklerin Çizgisel Olmayan Özelliklerinin Teorik Olarak İncelenmesi**
Turhan Irak Z., Gümüş S.
Kafkas Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.1-8, 2017 (National Refreed University Journal)
- VII. **SYNTHESIS AND COMPUTATIONAL CALCULATIONS OF NOVEL CHIRAL BIS-1,2,3-TRIAZOLE DERIVATIVES**
Gümüş A., Gümüş S.
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.3, pp.165-176, 2017 (Refereed Journals of Other Institutions)
- VIII. **INVESTIGATION OF AROMATICITY OF TRI AND TETRAAZANAPHTHALENE DERIVATIVES**
Gümüş S., Gümüş A., Avcı M.
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.3, pp.177-192, 2017 (Refereed Journals of Other Institutions)
- IX. **SYNTHESIS AND COMPUTATIONAL CALCULATIONS OF NOVEL CHIRAL BIS-1,2,3-TRIAZOLE DERIVATIVES**
Gümüş A., Gümüş S.
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.3, pp.165-176, 2017 (Refereed Journals of Other Institutions)
- X. **Heterotricyclic Compounds via Click Reaction: A Computational Study**
Turhan Irak Z., Gümüş S.
Noble International Journal of Scientific Research, vol.1, pp.80-89, 2017 (Refereed Journals of Other Institutions)
- XI. **Decomposition Mechanisms of Nitrogen Rich Pyrotechnics, DHT, DIAT and DAAT**
Gümüş A., Uygur R., Gümüş S.
Modern Organic Chemistry Research, vol.2, pp.105-111, 2017 (Refereed Journals of Other Institutions)
- XII. **Synthesis of Methyl-4-Oxo-2(E)-alkenoic Acid and Theoretical Investigation of Reaction Mechanism**
Gümüş S., Maraş A.
International Journal of Chemical and Biomolecular Science, vol.1, pp.310-312, 2015 (Refereed Journals of Other Institutions)
- XIII. **TG Index and Its Application on Alkanes and Alkenes**
Gümüş S., Türker L.
Chemistry Journal, vol.1, pp.103-115, 2015 (Refereed Journals of Other Institutions)
- XIV. **A DFT STUDY ON 2,2',4,4',6,6'-HEXANITROSTYRENEEPOXIDE**
Gümüş S., Türker L.
International Journal of Chemical Modeling, vol.7, pp.77-89, 2015 (Refereed Journals of Other Institutions)

XV. LEACHING OF BORON FROM A COLEMANITE ORE IN SOME ORGANIC AND MIXED ORGANIC-AQUEOUS SOLVENT SYSTEMS

Türker L., Gümüş S., Demirci Ş., Kayran C.

New. Front. Chem., vol.23, pp.91-98, 2014 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Investigation of the aromaticity of mono, di, tri and tetraazaphenanthrene derivatives**
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