

## Prof. BERNA ÇATIKKAŞ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-7451-2018

ScopusID: 55053492700

Yoksis Researcher ID: 153262

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Department of Physics, Turkey 2003 - 2010

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Department of Physics , Turkey 2000 - 2003

Undergraduate, Selcuk University, Fen Fakültesi, Fizik Bölümü, Turkey 1996 - 2000

### Foreign Languages

English

### Dissertations

Doctorate, MLC12 [M=Mn, Fe, Co, Ni, Cu, Zn, Cd, Hg L = etilendiamin, 2,2'-xx-bipiridin, 1,10 - fenantrolin] donor - akseptör bileşiklerinin yapı ve titreşim parametrelerinin HF ve DFT metodları ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2010

Postgraduate, Dört boyutlu ising modelin (12)4/4 örgüsünde Creutz cellular automaton ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2003

### Research Areas

Theory of Atoms and Molecules, Atomic and Molecular Interactions, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Optical Properties, Spectroscopy of Matter, Coordination Chemistry, Solid-State Chemistry, Novel Ligands

### Academic Titles / Tasks

Professor, Hatay Mustafa Kemal University, Fen Edebiyat Fakültesi, Fizik, 2023 - Continues

Associate Professor, Hatay Mustafa Kemal University, Fen Edebiyat Fakültesi, Fizik, 2017 - 2023

Lecturer PhD, Hatay Mustafa Kemal University, Fen Edebiyat Fakültesi, Fizik, 2011 - 2017

Research Assistant, Hatay Mustafa Kemal University, Fen Edebiyat Fakültesi, Fizik, 2004 - 2011

Research Assistant, Gazi University, Fen Fakültesi, 2004 - 2010

## Academic and Administrative Experience

Hatay Mustafa Kemal University, 2012 - Continues

Head of Department, Hatay Mustafa Kemal University, Fen Edebiyat Fakültesi, Fizik, 2011 - Continues  
2013 - 2014

## Courses

Atom ve Molekül Fiziği, Undergraduate, 2023-2024, 2022-2023, 2021-2022, 2015-2016, 2014-2015

Modern Fizik, Undergraduate, 2023-2024

Kuantum Mekaniği, Undergraduate, 2023-2024, 2021-2022

Moleküler Modelleme, Undergraduate Double Major, 2023-2024, 2022-2023, 2021-2022, 2014-2015

Fizikte Bilgisayar Programlama I, Undergraduate Double Major, 2023-2024, 2022-2023

Kuantum Fiziği, Undergraduate, 2023-2024, 2022-2023, 2021-2022

Fizik I, Undergraduate, 2023-2024

Fizikte Bilgisayarlı Programlama II, Undergraduate Double Major, 2023-2024

Fizik II, Undergraduate, 2023-2024, 2022-2023

Fizik 1, Undergraduate, 2022-2023, 2015-2016, 2013-2014

Lazer Fiziği ve Uygulamaları, Undergraduate Double Major, 2022-2023

Fizikte Bilgisayarlı Programlama, Undergraduate Double Major, 2022-2023

Molekül Spektroskopisi-1, Undergraduate Double Major, 2021-2022

Fizik Bilimi ve Önemi, Undergraduate, 2021-2022

Işık ve Optik, Undergraduate, 2021-2022

Spektroskopi, Undergraduate, 2021-2022

Erasmus+ Ders Verme Hareketliliği, Universty of Coimbra, Department of Chemistry, 22-28/05/2022, Undergraduate,  
2021-2022

Yenilenebilir Enerji Kaynakları, Undergraduate, 2021-2022

Kuantum Fiziği 1, Undergraduate, 2015-2016

Mühendislik Fiziği 1, Undergraduate, 2014-2015

Bilgisayar 1, Undergraduate, 2014-2015

Fizik 2, Undergraduate, 2014-2015

Molekül Spektroskopisi 1, Undergraduate Double Major, 2014-2015, 2013-2014

Mühendisler için Fizik 1, Undergraduate, 2013-2014

Fizik-2, Undergraduate, 2013-2014

Temel Bilgisayar Bilimleri, Undergraduate, 2013-2014

Fizik-1, Undergraduate, 2013-2014

Erasmus+ Ders Verme Hareketliliği, Universty of Ljubljana, Department of Physics, 29-31/05/2012, Undergraduate,  
2011-2012

## Advising Theses

Çatıkkaş B., Morfolino grubu taşıyan bileşiklerin alfa-amilaz, alfa-glukozidaz ve üreaz enzimleriyle etkileşiminin moleküler doking, MM/GBSA ve moleküler dinamik çalışması, Postgraduate, G.MANSUROĞLU(Student), 2024

ÇATIKKAŞ B., Anti-Leishmania etkisi gösteren Antimon(III) komplekslerinin moleküler doking analizi ile incelenmesi, Postgraduate, T.ÖKSÜZ(Student), 2023

ÇATIKKAŞ B., Karboksamit grubu taşıyan antimon(III) komplekslerinin moleküler doking analizi, Postgraduate, F.ATAŞ(Student), 2023

ÇATIKKAŞ B., Antimon (III) komplekslerinin elektronik ve titreşimsel özelliklerinin incelenmesi ve sqm analizi, Postgraduate, E.YOĞURTÇU(Student), 2021

- ÇATIKKAŞ B., Antimon(v)'in oxalat komplekslerinin teorik olarak elektronik yapı ve spektroskopi analizi, Postgraduate, İ.KOŞAR(Student), 2019
- ÇATIKKAŞ B., Piridin ve pirimidin grubu içeren antimon (III) komplekslerinin titreşimsel ve elektronik parametrelerinin incelenmesi ve SQM analizi, Postgraduate, Ö.AÇGAR(Student), 2018
- ÇATIKKAŞ B., MLC12 [M=Ni, Cu, Zn; L=2-aminoasetanilit] bileşiklerinin yapı ve titreşim parametrelerinin DFT metotları ile incelenmesi, Postgraduate, M.TEMEL(Student), 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pressure effects on the structural, electronic, elastic, optical, and vibrational properties of YMg intermetallic compounds: a first-principles study**  
ÇİFTÇİ Y., ÇATIKKAŞ B.  
Physica Scripta, vol.99, no.6, 2024 (SCI-Expanded)
- II. **Molecular Docking and Dynamics Simulations of Ammi visnaga L. Constituents as Antimelanogenic, Anti-Inflammatory and Anticoagulant Agents**  
ÇATIKKAŞ B., Karacan N.  
Chemistry and Biodiversity, vol.20, no.11, 2023 (SCI-Expanded)
- III. **Density functional studies of antimony complexes derived from carboxamide ligands**  
ÇATIKKAŞ B.  
Materials Research Express, vol.10, no.5, 2023 (SCI-Expanded)
- IV. **Structure, conformational landscape and UV-induced selective rotamerization of 2-aminoacetanilide**  
Luiza B. Brito A., Justino L. L., ÇATIKKAŞ B., Lopes S., ÖĞRÜÇ İLDİZ G., Fausto R.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.435, 2023 (SCI-Expanded)
- V. **Combined spectroscopic, XRD crystal structure and DFT studies on 2-(ethylthio)pyrimidine-4,6-diamine**  
AKTAN E., Babür B., SEFEROĞLU N., ÇATIKKAŞ B., KAYNAK F. B., SEFEROĞLU Z.  
Journal of Molecular Structure, vol.1145, pp.152-159, 2017 (SCI-Expanded)
- VI. **Synthesis, characterization and catecholase-like activity of new Schiff base metal complexes derived from visnagin: Theoretical and experimental study**  
BEYAZİT N., ÇATIKKAŞ B., BAYRAKTAR Ş., DEMETGÜL C.  
Journal of Molecular Structure, vol.1119, pp.124-132, 2016 (SCI-Expanded)
- VII. **Vibrational and electronic investigations, NLO, FMO analysis on a hetarylazoindole disperse dye by density functional theory**  
ÇATIKKAŞ B., AKTAN E., Yalçın E.  
Journal of Molecular Structure, vol.1117, pp.218-226, 2016 (SCI-Expanded)
- VIII. **Microwave-assisted synthesis of new sulfonyl hydrazones, screening of biological activities and investigation of structure-activity relationship**  
Karaman N., Oruç-Emre E. E., Sıcak Y., ÇATIKKAŞ B., Karaküçük-İyidoğan A., Öztürk M.  
Medicinal Chemistry Research, vol.25, no.8, pp.1590-1607, 2016 (SCI-Expanded)
- IX. **Infrared and Raman spectra, DFT investigation of the tautomerism, conformational equilibrium, structure and vibrational assignment of 1-(2-benzothiazolyl)-3-methyl pyrazol-5-one We dedicate this paper to the memory of Prof. Dr. Ziya KANTARCI who sadly died on 7 January 2012.**  
AKTAN E., ÇATIKKAŞ B.  
Vibrational Spectroscopy, vol.67, pp.92-100, 2013 (SCI-Expanded)
- X. **DFT, FT-Raman, FTIR, NMR, and UV-Vis studies of a hetarylazo indole dye**  
ÇATIKKAŞ B., AKTAN E., SEFEROĞLU Z.  
International Journal of Quantum Chemistry, vol.113, no.5, pp.683-689, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Vibrational Spectroscopic Study of Pyridine and Pyrimidine Ligands Coordinated with Antimony (III) Complexes: Insights from DFT Calculations**  
ÇATIKKAŞ B., ŞAHİNLER Ö.  
Eskişehir Teknik Üniversitesi Bilim ve Teknoloji Dergisi b- Teorik Bilimler, vol.11, no.2, 2023 (Peer-Reviewed Journal)
- II. **Raman and FT-IR spectra, DFT and SQMFF calculations for N,N-dimethylaniline**  
ÇATIKKAŞ B.  
Periodicals of Engineering and Natural Sciences, vol.5, no.2, pp.237-244, 2017 (Scopus)
- III. **Vibrational Spectra of the [MLCl<sub>2</sub>] (M= Mn(II), Fe(II), Co(II); L= 2,2'-Bipyridine) Complex from Theoretical Calculations**  
ÇATIKKAŞ B., KANTARCI Z.  
2nd International Conference on Engineering and Natural Science, vol.1, pp.2613-2620, 2016 (Peer-Reviewed Journal)
- IV. **DFT Studies and Vibrational Spectra of 2-(2-Phenyldiazenyl) Propanedinitrile**  
AKTAN E., ÇATIKKAŞ B., ESENER H.  
Azerbaijan Journal of Physics, vol.16, no.2, pp.614-619, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **6 ŞUBAT 2023 DEPREMLERİNE FİZİKSEL BAKIŞ**  
ÇATIKKAŞ B.  
in: İnterdisipliner Yaklaşımla HATAY'DA AFET DENEYİMİ 6 Şubat 2023 Depremini Tarihe Not Düşmek, Eren, Veysel, Editor, NOBEL, Hatay, pp.800, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Anti-Cholinesterase Activity of Morpholino Derivatives: Synthesis, Molecular Docking and Molecular Dynamic Study**  
ÇATIKKAŞ B., EMRE E. E.  
77th International Symposium on Molecular Spectroscopy, Champaign-Urbana, United States Of America, 17 June 2024
- II. **A DFT Study of (2Z,3Z)-1,4-dithiane-2,3-dionedioxime**  
ÇATIKKAŞ B.  
2ND INTERNATIONAL KARATEKIN SCIENCE AND TECHNOLOGY CONFERENCE (IKSTC2ND), Kırşehir, Turkey, 21 - 22 December 2023
- III. **Physical Characteristics of Metallic DyAg in B<sub>2</sub> structure: A First-Principles Investigation**  
ÇATIKKAŞ B., ÇİFTÇİ Y.  
2ND INTERNATIONAL KARATEKIN SCIENCE AND TECHNOLOGY CONFERENCE (IKSTC2ND), Kırşehir, Turkey, 21 December 2023
- IV. **Molecular Docking and Dynamics Simulations of Ammi Visnaga L. Constituents as Antimelanogenic Agents**  
ÇATIKKAŞ B., KARACAN N.  
76. International Symposium on Molecular Spectroscopy, Champaign-Urbana, United States Of America, 19 - 23 June 2023, pp.247
- V. **A DFT Study: Spectroscopic Analysis of Schiff Base Ligand With Fe(II) Complex**  
ÇATIKKAŞ B.  
75. International Symposium on Molecular Spectroscopy, Champaign-Urbana, United States Of America, 20 - 24

June 2022, pp.238

- VI. **DFT Investigation About Electronic and Vibrational Properties of Chromone Derivative Metal Complexes, SQM Analysis**  
ÇATIKKAŞ B.  
75. International Symposium on Molecular Spectroscopy, Champaign-Urbana, United States Of America, 20 - 24 June 2022, pp.162
- VII. **Theoretical Investigation of Electronic and Vibrational Properties of Chromone Derivative Schiff Base and Metal Complexes**  
ATAŞ F., ÇATIKKAŞ B.  
3. International Hydrogen Energy Congress and Exhibitions, Ankara, Turkey, 14 - 16 June 2021
- VIII. **A DFT Study Using Molecular Modelling: Spectroscopic Analysis of Metal Complex**  
Öksüz T., ÇATIKKAŞ B.  
3. International Hydrogen Energy Congress and Exhibitions, Ankara, Turkey, 14 - 16 June 2021
- IX. **Investigation of Vibrational and Electronic Parameters of Antimony(III) Complexes By Using DFT**  
ÇATIKKAŞ B., KARACAN N.  
3. International Hydrogen Energy Congress and Exhibitions, Ankara, Turkey, 14 - 16 June 2021
- X. **Vibrational and Quantum Chemical Investigations on Antimony(III) Complexes by Using DFT and SQM**  
YOĞURTÇU E., ÇATIKKAŞ B.  
3. International Hydrogen Energy Congress and Exhibitions, Ankara, Turkey, 14 - 16 June 2021
- XI. **Theoretical Investigation of Electronic and Vibrational Properties of Asymmetric Schiff Base and Metal Complexes**  
ÇATIKKAŞ B., Mansuroğlu G.  
3. International Hydrogen Energy Congress and Exhibitions, Ankara, Turkey, 14 - 16 June 2021
- XII. **Kuantum Fiziği Nedir?**  
ÇATIKKAŞ B.  
Biyofizik Konferansı, Hatay, Turkey, 28 March 2019
- XIII. **Determination of Structural and Electronic Parameters of A Ocium Basilicum L. by Using DFT Method**  
ÇATIKKAŞ E., ÇATIKKAŞ B.  
International Conference on Innovations in Natural Science and Engineering, Famagusta, Cyprus (Kkct), 3 - 06 January 2018, pp.64
- XIV. **The Investigation of Geometric And Electronic Parameters of The Essential Oil of Capparis Spinosa l. by Using DFT**  
ÇATIKKAŞ E., ÇATIKKAŞ B.  
International Conference on Innovations in Natural Science and Engineering, Famagusta, Cyprus (Kkct), 3 - 06 January 2018, pp.63
- XV. **Theoretical vibrational spectroscopic study of antimony(III) complexes by using DFT**  
ÇATIKKAŞ B., KARACAN N., Açgar Ö., TUNÇ T.  
XIVth International Conference on Molecular Spectroscopy, Bialka Tatranska, Poland, 3 - 07 September 2017, pp.337
- XVI. **Infrared spectra, scaled quantum mechanical analysis and density functional studies of antimony compounds derived from carboxamide ligands**  
ÇATIKKAŞ B., TUNÇ T., KARACAN N., Yalçın N.  
XIVth International Conference on Molecular Spectroscopy, Bialka Tatranska, Poland, 3 - 07 September 2017, pp.338
- XVII. **The Investigation of Geometric and Electronic Parameters of A Thiophen Based Chiral Amino Alcohol by Using DFT**  
ÇATIKKAŞ B., AYDIN A. E.  
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017
- XVIII. **FT-IR and Raman Characterization and Theoretical Vibrational Spectroscopic Study of N,N-**

### **Dimethylaniline By Using DFT**

ÇATIKKAŞ B.

3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.242

- XIX. **Investigation of Structural and Electronic Parameters of Clove Syzygium Aromaticum**  
ÇATIKKAŞ B., ÇATIKKAŞ E., AYDIN A. E.  
3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017
- XX. **Geometric and Electronic Study of 5-Substituted thiophene-2-carbaldehyde by Using DFT**  
ÇATIKKAŞ B., AYDIN A. E.  
3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017
- XXI. **Quantum Chemical Investigations: Conformational and Electronic Studies of  $\alpha$ -Pinene and Limonene Using DFT Method**  
ÇATIKKAŞ E., AYDIN A. E., ÇATIKKAŞ B.  
3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.682
- XXII. **Conformational and Electronic Studies of  $p$ -Cymene and Camphor Using DFT Method**  
ÇATIKKAŞ E., ÇATIKKAŞ B., AYDIN A. E.  
3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.678
- XXIII. **Vibrational Spectra of the [MLCl<sub>2</sub>] (M= Mn(II), Fe(II), Co(II) L= 2,2'-Bipyridine) Complex from Theoretical Calculations**  
ÇATIKKAŞ B., KANTARCI Z.  
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016, pp.2790-2799
- XXIV. **Determination of Structural and Electronic Parameters of Antimony Complex from Theoretical Calculations**  
ÇATIKKAŞ B., KOŞAR İ.  
International Symposium on Molecular Spectroscopy 71nd Meeting, Champaign-Urbana, United States Of America, 20 - 24 June 2016
- XXV. **Structural and Electronic Investigations MEP analysis on a Vic Dioxime Cu II Complex Using Density Functional Theory**  
ÇATIKKAŞ B.  
International Conference on Natural Science and Engineering, Kilis, Turkey, 19 - 20 March 2016, pp.90
- XXVI. **Synthesis Characterization and Density Functional Studies of New Benzenesulfonohydrazones Having Piperidine Ring**  
KARAMAN N., ÇATIKKAŞ B., EMRE E. E., İYİDOĞAN A.  
IVEK 2nd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 27 - 29 November 2015, pp.199
- XXVII. **Vibrational and Electronic Investigations FMO MEP analysis on Some Essential Oils by Density Functional Theory**  
ÇATIKKAŞ B., ÇATIKKAŞ E.  
IVEK 2nd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 27 - 29 November 2015, pp.227
- XXVIII. **Determination of Structural and Spectroscopic Parameters Rosmarinus officinalis L Essential Oils**  
ÇATIKKAŞ B., ÇATIKKAŞ E.  
11. Kimyasal Fizik Kongresi, İstanbul, Turkey, 17 - 18 October 2014, pp.53
- XXIX. **Electronic Structure and Spectroscopic Analysis of 2 Aminoacetanilide Transition Metal Complexes from Theoretical Calculations**  
ÇATIKKAŞ B., ZEYTİNELİ M. T.  
50th Symposium on Theoretical Chemistry Quantum Chemistry and Chemical Dynamics, VIYANA, Austria, 14 September - 18 January 2014, pp.266
- XXX. **DFT FT Raman FT IR and NMR Studies of 2,2,6,6-Tetrametilbisindandion**  
ÇATIKKAŞ B., AKTAN E., ESENER H.

- X. Kimyasal Fizik Kongresi 10-12 Ekim 2012, Ankara, Türkiye., Ankara, Turkey, 10 - 12 October 2012, pp.62
- XXXI. **Molecular Structure Tautomerism and Vibrational Spectra of 3 Amino 2 phenylazobut 2 en nitrile**  
AKTAN E., ÇATIKKAŞ B., ESENER H.  
X. Kimyasal Fizik Kongresi, Ankara, Turkey, 10 - 12 October 2012, pp.47
- XXXII. **DFT FT Raman FT IR NMR and UV Vis studies on a hetarylazo dye**  
ÇATIKKAŞ B., AKTAN E., SEFEROĞLU Z.  
6th International Congress on the Application of Raman Spectroscopy in Art and Archaeology, Parma, Italy, 5 - 08 September 2011, pp.125
- XXXIII. **Theoretical investigation on the molecular structure FT Raman FT IR NMR and UV VIS studies of a hetarylazoindole dye**  
AKTAN E., ÇATIKKAŞ B., SEFEROĞLU Z.  
6th International Congress on the Application of Raman Spectroscopy in Art and Archaeology, Parma, Italy, 5 - 08 September 2011, pp.90
- XXXIV. **DFT FT Raman FT IR NMR and UV vis studies of 1 2 Dimethyl 3 5 methylsulfanyl 1 3 4 thiadiazol 2 yl diazenyl 1H indole**  
ÇATIKKAŞ B., AKTAN E., SEFEROĞLU Z.  
14th International Density Functional Theory Conference (DFT 2011), Athens, GREECE, Atina, Greece, 29 August - 02 September 2011, pp.5
- XXXV. **Determination of Structural and Spectroscopic Parameters of 4 hydroxyantipyrine Using DFT Method**  
ÇATIKKAŞ B., AKTAN E.  
26th International Physics Conference, Muğla / Bodrum, Turkey, 24 - 27 September 2009, pp.298
- XXXVI. **Structural and Vibrational Studies of 2 4 6 Trimethylbenzamide Using DFT Method**  
ÇATIKKAŞ B., KARAKAYA N.  
26th International Physics Conference, Muğla / Bodrum, Turkey, 24 - 27 September 2009, pp.299
- XXXVII. **Conformational Analysis and Vibrational Studies of Ethylenediamine d4 Using DFT Method**  
ÇATIKKAŞ B.  
26th International Physics Conference, Muğla / Bodrum, Turkey, 24 - 27 September 2009, pp.296
- XXXVIII. **Structural Study of The 3 Methyl 1 Phenyl 2 Pyrazolin 5 one by DFT Calculations NMR and IR Spectroscopy**  
AKTAN E., ÇATIKKAŞ B.  
26th International Physics Conference, Muğla / Bodrum, Turkey, 24 - 27 September 2009, pp.297
- XXXIX. **A DFT Study on Tautomerism and Vibrational Analysis of 1 2 Benzothiazolyl 3 methyl 5 Pyrazolone**  
AKTAN E., ÇATIKKAŞ B., KANTARCI Z., ERTAN N.  
13th International Conference on the Applications of Density Functional Theory in Chemistry and Physics (DFT 2009), Lyon, France, 31 August - 04 September 2009, pp.314
- XL. **Etilendiamin Molekülünün Gaz Fazındaki Konformasyonları Geometrik Yapı ve Normal Kip Parametrelerinin DFT Metodu ile Belirlenmesi**  
ÇATIKKAŞ B., KANTARCI Z.  
XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.190
- XLI. **M(II)Cl<sub>2</sub> (1,10-Fenantrolin) [M=Mn, Fe, Co, Ni, Cu, Zn, Cd, Hg] Bileşiklerinin B3LYP/6-31+G(d) Metodu ile Hesaplanan Yapı ve Titreşim Parametrelerinin Deneysel Verilerle Karşılaştırılması**  
ÇATIKKAŞ B., KANTARCI Z.  
XXII. Ulusal Kimya Kongresi, Mağusa, Cyprus (Kkct), 6 - 10 October 2008, pp.15
- XLII. **Structural and Vibrational Studies of Methyl 2 1 oxo 1h isochromen 3 yl carbonyl benzoate Using DFT Method**  
ÇATIKKAŞ B., AKTAN E., ÖZCAN S., KANTARCI Z., BALCI M.  
Turkish Physical Society 25th International Physics Conference, Muğla-Bodrum, Turkey, 25 - 29 August 2008, pp.319
- XLIII. **Dört Boyutlu Ising Modelin 12 4 4 Örgüsünde Creutz Cellular Automaton ile Simülasyonunda Monte Carlo Zaman Adımının Statik Kritik Üsler Üzerine Etkisi**

## Supported Projects

- ÇATIKKAŞ B., Mansuroğlu G., Project Supported by Higher Education Institutions, Asimetrik Schiff Bazı ile Geçiş Metal Komplekslerinin Deneysel ve Kuramsal Molekül Modelleme Çalışması, 2021 - Continues
- ÇATIKKAŞ B., ATAŞ F., Project Supported by Higher Education Institutions, Kromon Türevi Schiff Bazı ve Metal Komplekslerinin Elektronik ve Titreşimsel Özelliklerinin Teorik ve Deneysel Olarak İncelenmesi, 2021 - 2023
- ÇATIKKAŞ B., Öksüz T., Moleküler Modelleme Kullanılarak Bir YFT Çalışması: Schiff Baz Ligand ile Bakır (II) Bileşiklerinin Spektroskopik Analizi, 2019 - 2023
- ÇATIKKAŞ B., TUBITAK Project, Yeni Nesil Tek Yön Valfli Pulse Jet Motoru (SFTR-21), 2021 - 2022
- ÇATIKKAŞ B., Project Supported by Higher Education Institutions, Karboksamid Grubu İçeren Schiff Bazı Ligandları ile Antimon (III) Komplekslerinin Elektronik ve Titreşimsel Parametrelerinin İncelenmesi, SQM Analizi, 2017 - 2021
- ÇATIKKAŞ B., Açar Ö., Project Supported by Higher Education Institutions, Piridin ve Pirimidin Grubu İçeren Antimon (III) Komplekslerinin Titreşimsel ve Elektronik Parametrelerinin İncelenmesi ve SQM Analizi, 2017 - 2019
- ÇATIKKAŞ B., Koşar İ., Project Supported by Higher Education Institutions, Antimon (V)'in Oxalat Komplekslerinin Teorik Olarak Elektronik Yapı ve Spektroskopi Analizi, 2016 - 2019
- ÇATIKKAŞ B., Project Supported by Higher Education Institutions, Pirimidin ve Tiyofen Türevi Bileşiklerin Yapısal ve Titreşimsel İncelenmesi, 2015 - 2017
- ÇATIKKAŞ B., TUBITAK Project, TÜBİTAK 47 Ortaöğretim Öğrencileri Araştırma Projeleri Yarışması 2016 Adana Bölgesi Fizik Bilim Dalı Jüri Üyesi 80 Proje, 2016 - 2016
- ÇATIKKAŞ B., Project Supported by Higher Education Institutions, 2 Aminoasetanilid Geçiş Metal Komplekslerinin Teorik Olarak Hesaplanan Elektronik Yapı ve Spektroskopi Analizi UDP Projesi, 2014 - 2015
- ÇATIKKAŞ B., Project Supported by Higher Education Institutions, Infrared and Raman spectra DFT investigation of the tautomerism conformational equilibrium structure and vibrational assignment of 1 2 benzothiazolyl 3 methyl pyrazol 5 one BYP Projesi, 2014 - 2015
- ÇATIKKAŞ B., Zeytineli M. T., Project Supported by Higher Education Institutions,  $MLCl_2$  ( $M=Ni, Cu, Zn, L=2$ -Aminoasetanilit) Bileşiklerinin Yapı ve Titreşim Parametrelerinin DFT Metodları İle İncelenmesi, 2012 - 2013

## Scientific Refereeing

JOURNAL OF MOLECULAR STRUCTURE, Other journals, January 2016

Other Journals, January 2015

## Metrics

Publication: 58

Citation (Scopus): 112

H-Index (Scopus): 6

## Non Academic Experience

Hatay Fen Lisesi