

Prof. Nazan Ocak İskeleli

Personal Information

Email: nocak@omu.edu.tr

Web: <https://avesis.omu.edu.tr/nocak>

International Researcher IDs

ORCID: 0000-0001-5794-3681

Yoksis Researcher ID: 14348

Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2000 - 2004

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1998 - 2000

Undergraduate, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1994 - 1998

Dissertations

Doctorate, Sentezlenmiş bazı organik kristallerin x-ışınları yöntemi ile yapı analizi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2004

Postgraduate, X-ışını kırınımı yöntemi ile C₂H₆N₂S kristalinin yapı analizi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2000

Research Areas

Structure of Liquids and Solids; Crystallography

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2016 - Continues

Associate Professor, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2012 - Continues

Courses

FEN BİLGİSİ LABORATUVAR UYGULAMALARI-I, Undergraduate, 2013 - 2014

FEN VE TEKNOLOJİ LABORATUVAR UYGULAMALARI-II, Undergraduate, 2013 - 2014

FEN VE TEKNOLOJİ LABORATUVAR UYGULAMALARI-I, Undergraduate, 2013 - 2014

GENEL FİZİK-II, Undergraduate, 2013 - 2014, 2012 - 2013

BİLİM FELSEFESİ, Undergraduate, 2013 - 2014, 2012 - 2013

GENEL FİZİK-I, Undergraduate, 2013 - 2014, 2012 - 2013

FEN ÖĞRETİMİ LAB. UYGULAMA II, Undergraduate, 2013 - 2014

GENEL FİZİK LAB.-II, Undergraduate, 2013 - 2014, 2012 - 2013

GENEL FİZİK LAB.-I, Undergraduate, 2013 - 2014, 2012 - 2013

SES VE TEKNOLOJİK UYGULAMALARI, Undergraduate, 2013 - 2014
MODERN FİZİĞE GİRİŞ, Undergraduate, 2013 - 2014, 2012 - 2013
FİZİKTE ÖZEL KONULAR, Undergraduate, 2013 - 2014, 2012 - 2013
GENEL FİZİK, Undergraduate, 2013 - 2014, 2012 - 2013
TOPLUMA HİZMET UYGULAMASI, Undergraduate, 2012 - 2013
GENEL FİZİK LAB.-III, Undergraduate, 2012 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The new Schiff base 4-[(4-Hydroxy-3-fluoro-5-methoxy-benzylidene)amino]-1,5-dimethyl-2-phenyl-1,2-dihydro-pyrazol-3-one: Experimental, DFT calculational studies and in vitro antimicrobial activity**
Ocak İskeleli N., ALPASLAN Y. B., DİREKEL Ş., ERTÜRK A. G., SÜLEYMANOĞLU N., USTABAŞ R.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.139, pp.356-366, 2015 (SCI-Expanded)
- II. **Experimental and theoretical characterization of the 2-(4-bromobenzyl)-5-ethylsulphonyl-1,3-benzoxazole**
Zeyrek C. T., ÜNVER H., ARPACI Ö., POLAT K., Ocak İskeleli N., Yildiz M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1081, pp.22-37, 2015 (SCI-Expanded)
- III. **Crystal structure and DFT calculations of 5-(4-Chlorophenyl)-1-(6-methoxypyridazin-3-yl)-1 H-pyrazole-3-carboxylic acid**
ALAŞALVAR C., SOYLU M. S., ÜNVER H., Ocak İskeleli N., Yildiz M., Ciftci M., BANOĞLU E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.132, pp.555-562, 2014 (SCI-Expanded)
- IV. **Synthesis, characterization, and antimicrobial activity of copper(II) complexes with N,N '-propanediyl-bis-benzenesulfonamide and N,N '-ethanediyl-bis-2-methylbenzenesulfonamide**
Alyar S., ÖZBEK N., Ocak İskeleli N., KARACAN N.
MEDICINAL CHEMISTRY RESEARCH, vol.22, no.5, pp.2051-2060, 2013 (SCI-Expanded)
- V. **Experimental and theoretical investigation of the molecular and electronic structure of 3-ethoxy-4-isopropylaminocyclobut-3-ene-1,2-dione**
SÜLEYMANOĞLU N., USTABAŞ R., Alpaslan Y. B., EYDURAN F., Ocak İskeleli N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.96, pp.35-41, 2012 (SCI-Expanded)
- VI. **Synthesis, Spectral Properties and Structure of New Novel 3,3'-Dibenzoyl-1,1'-(propan-1,3-diyl)-bisthiourea**
AYDIN F., Aykac D., ÜNVER H., Ocak İskeleli N.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.42, no.4, pp.381-387, 2012 (SCI-Expanded)
- VII. **Hydrogen-bridged chelate ring-assisted pi-stacking interactions**
KARABIYIK H., KARABIYIK H., Ocak İskeleli N.
ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE CRYSTAL ENGINEERING AND MATERIALS, vol.68, pp.71-79, 2012 (SCI-Expanded)
- VIII. **Spectroscopic Studies and Crystal Structure of Four-Coordinate Manganese(II) Chloride Complex**
ÖZAY H., Yildiz M., ÜNVER H., Ocak İskeleli N.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.42, no.6, pp.872-877, 2012 (SCI-Expanded)
- IX. **Experimental (C-13 NMR, H-1 NMR, FT-IR, single-crystal X-ray diffraction) and DFT studies on 3,4-bis(isopropylamino)cyclobut-3-ene-1,2-dione**
SÜLEYMANOĞLU N., USTABAŞ R., Alpaslan Y. B., EYDURAN F., Ozyurek C., Ocak İskeleli N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.83, no.1, pp.472-477, 2011 (SCI-Expanded)

- X. **Anchor Effect on Pedal Motion Observed in Crystal Phase of an Azobenzene Derivative**
KARABIYIK H., Petek H., Ocak İskeleli N., Albayrak C., Ağar E.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.41, no.11, pp.1642-1648, 2011 (SCI-Expanded)
- XI. **Experimental and density functional theory studies on (E)-2-[(2-(hydroxymethyl)phenylimino)methyl]benzene-1,4-diol**
Alpaslan Y. B., Alpaslan G., Alaman Ağar A., Ocak İskeleli N., Öztekin E.
JOURNAL OF MOLECULAR STRUCTURE, vol.995, no.1-3, pp.58-65, 2011 (SCI-Expanded)
- XII. **Synthesis and spectroscopic properties of geminal-bis(tert-butylamino)cyclotriphosphazenes obtained by the reaction of Spiro and ansa phenoxycyclotriphosphazenes with the tert-butylamine and the crystal structure of 4,4'-bis(tert-butylamino)-2,6',6',10-tetrachloro-4',4',6',6'-tetrahydrospiro[12H-dibenzo[d,g]-(1,3,2)dioxaphosphocin-6,2'-lambda(5)-[1,3,5,2,4,6]-triazaphosphorine]**
ERDENER ÇIRALI D., Yıldız M., ÜNVER H., Ocak İskeleli N., Durlu T. N.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.76, no.6, pp.831-840, 2011 (SCI-Expanded)
- XIII. **Mesomeric effect on the structural and electronic properties of 4-(2-tert-butyl-4-methylphenoxy)phthalonitrile**
KARABIYIK H., Alaman Ağar A., Ocak İskeleli N.
STRUCTURAL CHEMISTRY, vol.21, no.6, pp.1273-1281, 2010 (SCI-Expanded)
- XIV. **Spectroscopic Studies and Structure of 4-(3-Benzoylthioureido)benzoic Acid**
AYDIN F., ÜNVER H., Aykac D., Ocak İskeleli N.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.40, no.12, pp.1082-1086, 2010 (SCI-Expanded)
- XV. **Synthesis, Spectroscopic Studies and Structure of 2-[(Benzo[d]thiazol-2-ylamino)methyl]phenol**
Yıldız M., ÖZAY H., ÜNVER H., Ocak İskeleli N., Zengin D. M., Durlu T. N.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.40, no.11, pp.909-913, 2010 (SCI-Expanded)
- XVI. **Spectroscopic Studies and Crystal Structure of 4-(2-Hydroxy-3-Methoxybenzylideneamino)-N-(5-Methylisoxazol-3-yl) Benzenesulfonamide**
Yıldız M., ÜNVER H., ERDENER ÇIRALI D., Ocak İskeleli N.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.40, no.8, pp.691-695, 2010 (SCI-Expanded)
- XVII. **Structural and aromatic aspects for tautomerism of (Z)-6-((4-bromophenylamino)methylene)-2,3-dihydroxycyclohexa-2,4-dienone**
KARABIYIK H., Petek H., Ocak İskeleli N., Albayrak C.
STRUCTURAL CHEMISTRY, vol.20, no.6, pp.1055-1065, 2009 (SCI-Expanded)
- XVIII. **Crystallographic and conformational analysis of two novel trans-azo benzene compounds**
KARABIYIK H., Petek H., Ocak İskeleli N., Albayrak C.
STRUCTURAL CHEMISTRY, vol.20, no.5, pp.903-910, 2009 (SCI-Expanded)
- XIX. **Synthesis, spectroscopic, and molecular structure characterizations of some azo derivatives of 2-hydroxyacetophenone**
Albayrak C., Gumrukcuoglu I. E., ODABAŞOĞLU M., Ocak İskeleli N., Ağar E.
JOURNAL OF MOLECULAR STRUCTURE, vol.932, no.1-3, pp.43-54, 2009 (SCI-Expanded)
- XX. **Synthesis, spectroscopic studies and crystal structure of (E)-2-(2,4-dihydroxybenzylidene)thiosemicarbazone and (E)-2-[(1H-indol-3-yl)methylene]thiosemicarbazone**
Yıldız M., ÜNVER H., ERDENER ÇIRALI D., Kiraz A., Ocak İskeleli N.
JOURNAL OF MOLECULAR STRUCTURE, vol.919, no.1-3, pp.227-234, 2009 (SCI-Expanded)
- XXI. **Synthesis, Crystallographic Structure and Semiempirical Studies of a Novel Complexes of Uranyl(VII).**
Tek A. A., Celik O., Ulusoy M., Ocak İskeleli N., Eroglu E., TAŞ E.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (SCI-Expanded)
- XXII. **Desynchronization of pedal motion: Crystallographic and theoretical study of (E)-4-[(4-ethylphenyl)diazanyl]-2-methylphenol**
Ocak İskeleli N., KARABIYIK H., Albayrak C., Ağar E.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.38, no.9, pp.671-677, 2008 (SCI-Expanded)
- XXIII. **Crystallographic and conformational analysis of (E)-2-isopropyl-4-(p-tolyldiazanyl)phenol**

- Ocak İskeleli N., KARABIYIK H., Albayrak C., Ağar E., Guemruekcueoglu I. E.
STRUCTURAL CHEMISTRY, vol.19, no.4, pp.565-570, 2008 (SCI-Expanded)
- XXIV. **An intermediate structure trapped in solid-state tautomerization process of (E)-4-[(4-chlorophenylimino)methyl]benzene-1,2,3-triol**
KARABIYIK H., Ocak İskeleli N., Petek H., Albayrak C., Ağar E.
JOURNAL OF MOLECULAR STRUCTURE, vol.873, no.1-3, pp.130-136, 2008 (SCI-Expanded)
- XXV. **((Z)-Ethyl 4-chloro-3-oxo-2-(2-ptolyhydrazono) butanoate**
Erdonmez A., Alpaslan G., Odabasoglu M., Ozdamar O., Ocak İskeleli N.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.63, 2007 (SCI-Expanded)
- XXVI. **(Z)-Ethyl 2-[2-(3-bromophenyl)hydrazono]-4-chloro-3-oxobutanoate**
Alpaslan G., Ozdamar O., Odabasoglu M., Ocak İskeleli N., Erdonmez A.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.63, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Multidisciplinary Learning Environments (MLE): Young Minds Science and Art Summer Camp Project**
Türk C., Tut E., Kartal A., Bolat M., Ocak İskeleli N., Kiroğlu M. K.
Journal of STEM Teacher Institutes, vol.3, no.2, pp.1-23, 2023 (Peer-Reviewed Journal)
- II. **Fen Bilgisi Öğretmen Adaylarının Gün Uzunluğunun Değişimine İlişkin Zihinsel Modelleri**
BOLAT M., TÜRK C., OCAK İSKELELİ N.
Anemon Muş Alparslan Üniversitesi Sosyal Bilimler Dergisi, pp.123-129, 2018 (Peer-Reviewed Journal)
- III. **Okul Öncesi Öğretmen Adaylarının Bilimin Doğasına Yönelik Görüşleri**
TÜRK C., YILDIRIM B., BOLAT M., OCAK İSKELELİ N.
Anemon Muş Alparslan Üniversitesi Sosyal Bilimler Dergisi, pp.115-121, 2018 (Peer-Reviewed Journal)
- IV. **Research on the Effect of the Science Camp Project on the Students in Terms of Various Variables**
TÜRK C., OCAK İSKELELİ N., Kaynak S.
Journal of Current Researches on Social Sciences, vol.8, no.1, pp.55-64, 2018 (Peer-Reviewed Journal)
- V. **Bir Doğa Eğitimi Projesinin Öğrencilerin Astronomi Başarıları ve Tutumlarına Etkisi**
TÜRK C., KALKAN H., SEMERCİOĞLU M. G., OCAK İSKELELİ N.
Eğitim ve Öğretim Araştırmaları Dergisi, vol.6, no.3, pp.327-333, 2017 (Peer-Reviewed Journal)
- VI. **An Experimental Study of Pre-Service Science Teachers Based on their Success in Astronomy**
TÜRK C., KALKAN H., OCAK İSKELELİ N., Matano M. S.
Journal of Education and Instructional Studies in the World, vol.7, no.1, pp.15-22, 2017 (Peer-Reviewed Journal)
- VII. **Elementary School Students Mental Models about Formation of Seasons A Cross Sectional Study**
TÜRK C., KALKAN H., KIROĞLU M. K., OCAK İSKELELİ N.
JOURNAL OF EDUCATION AND LEARNING, vol.5, no.1, pp.7-30, 2016 (Peer-Reviewed Journal)
- VIII. **Improving Astronomy Achievement and Attitude through Astronomy Summer Project A Design Implementation and Assessment**
TÜRK C., KALKAN H., OCAK İSKELELİ N., KIROĞLU M. K.
International Journal of Higher Education, vol.5, no.1, pp.47-61, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fen Bilimleri Öğretmenlerinin Stem Eğitimi ile Fen ve Mühendislik Uygulamaları Ünitesine Yönelik Görüşleri**
TÜRK C., Mustafa Necati U., OCAK İSKELELİ N.
Ondokuz Mayıs Üniversitesi Uluslararası100.Yıl Eğitim Sempozyumu, 26 - 28 October 2019
- II. **Fen Bilimleri Öğretmenlerinin Fen ve Mühendislik Uygulamaları Ünitesi Sürecine Yönelik Görüşleri: Uygulamalı Bir Çalışma**

OCAK İSKELELİ N., Uzuner M. N., TÜRK C.

Ondokuz Mayıs Üniversitesi Uluslararası 100. Yıl Eğitim Sempozyumu, 26 - 28 October 2019

- III. **Okul Öncesi Öğretmen Adaylarının Bilimin Doğasına Yönelik Tutumları**
TÜRK C., YILDIRIM B., BOLAT M., OCAK İSKELELİ N.
INTERNATIONAL CONFERENCE ON STEM AND EDUCATIONAL SCIENCES, 3 - 05 May 2018
- IV. **Research on the Effect of the Nature Education Project on the Students in terms of Various Variables**
TÜRK C., OCAK İSKELELİ N., KAYNAK S.
International Conference on Multidisciplinary Sciences, Ankara, Turkey, 25 - 26 November 2017
- V. **Bilimin Doğası Öğretimi: Aynı Tema Farklı Yaklaşımlar**
BOLAT M., YENİKALAYCI N., OCAK İSKELELİ N.
8th International Congress on New Trends in Education, 18 - 20 May 2017
- VI. **Bir Doğa Eğitimi Projesinin Öğrencilerin Astronomi Başarıları ve Tutumlarına Etkisi**
TÜRK C., KALKAN H., SEMERCİOĞLU M. G., OCAK İSKELELİ N.
8th International Congress on New Trends in Education, Antalya, Turkey, 18 - 20 May 2017
- VII. **An Experimental Study of Pre Service Science Teachers Based on Their Success in Astronomy**
TÜRK C., KALKAN H., OCAK İSKELELİ N., MATANO M. S.
5th World Conference on Educational and Instructional Studies, 27 - 29 October 2016
- VIII. **Attitudes of Pre service Science and Mathematics Teachers towards Scientific Research**
TÜRK C., OCAK İSKELELİ N., BOLAT M., KALKAN H.
International Academic Conference on Teaching, Learning and E-learning, 6 - 07 July 2016
- IX. **The new Schiff base 4 4 Hydroxy 3 fluoro 5 methoxy benzylidene amino 1 5 dimethyl 2 phenyl 1 2 dihydro pyrazol 3 one Experimental DFT calculational studies and in vitro antimicrobial activity**
OCAK İSKELELİ N., BİNGÖL ALPASLAN Y., DİREKEL Ş., GEDİZ ERTÜRK A., SÜLEYMANOĞLU N., USTABAŞ R.
Anatolian Conference on Synthetic Organic Chemistry, 16 - 19 March 2015
- X. **Experimental and Semi empirical and DFT Calculational Studies on E 2 2 morpholinoethylimino methyl 4 nitrophenolate**
BİNGÖL ALPASLAN Y., AĞAR E., ERŞAHİN F., OCAK İSKELELİ N., ÖZTEKİN E.
Turkish Physical Society 26th International Physics Congress, Turkey, 24 - 27 September 2009
- XI. **Molecular and crystal structures of (E)-2-[(2-morpholinoethylimino)methyl]phenol, (I) and (E)-2-methoxy-6-[(2-morpholinoethylimino)methyl]phenol (II)**
KARABIYIK H., ALBAYRAK KAŞTAŞ Ç., OCAK İSKELELİ N., AĞAR E., ŞENEL İ.
2. Turkish Crystallographic Meeting, Turkey, 17 - 19 May 2006
- XII. **4-(2-Bromo-4,5-dimethoxybenzyloxy)phthalonitrile**
OCAK İSKELELİ N., ATALAY Ş., AĞAR E., AKDEMİR N.
2nd Turkish Crystallographic Meeting, Turkey, 17 - 19 May 2005
- XIII. **4-(2-Bromo-4-chlorophenoxy) phthalonitrile**
ATALAY Ş., OCAK İSKELELİ N., AĞAR E., AKDEMİR N.
2nd Turkish Crystallographic Meeting, Turkey, 17 - 19 May 2005

Supported Projects

Ocak İskeleli N., Project Supported by Higher Education Institutions, International Academic Conference on Teaching, Learning and E-learning, 2016 - 2016