

Prof. Metin Yavuz

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ondokuz Mayıs University, Fen Fakültesi, Fizik Bölümü, Turkey 1989 - 1994

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1985 - 1987

Undergraduate, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1980 - 1984

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Bazı organik ve inorganik bileşiklerin gama ve UV ile ışınlığında oluşan paramanyetik bozuklukların Epr spektroskopisi ile incelenmesi, Ondokuz Mayıs University, Fizik (Dr), 1994

Postgraduate, ESR spin etiketleme tekniğini kullanarak kan ve tükürüğün incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1987

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, 2005 - Continues

Associate Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, 1999 - 2005

Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, 1994 - 1999

Research Assistant, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, 1985 - 1994

Academic and Administrative Experience

Amasya University, 2007 - 2015

Amasya University, 2008 - 2011
Amasya University, 2006 - 2011
Amasya University, 2001 - 2007

Courses

Fizik I, Undergraduate, 2018 - 2019
Uzmanlık Alan Dersi, Doctorate, 2018 - 2019
Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019
Bilimsel Araştırma Yöntemleri ve Etik, Postgraduate, 2018 - 2019
Fizikte Matematik Yöntemler I, Undergraduate, 2018 - 2019
Yenilenebilir Enerji Kaynakları, Postgraduate, 2018 - 2019
Spektroskopiye Giriş, Undergraduate, 2018 - 2019, 2017 - 2018
Girişimcilik ve Yenilikçilik, Postgraduate, 2018 - 2019
Astrofizik, Undergraduate, 2018 - 2019
Astronomi, Undergraduate, 2017 - 2018
Fizik I ve II, Undergraduate, 2017 - 2018
Uzmanlık Alan Dersi I ve II, Postgraduate, 2017 - 2018
Yenilenebilir Enerjide AR-GE ve İnovasyon, Postgraduate, 2017 - 2018
Fizikte Matematik Yöntemler I ve II, Undergraduate, 2017 - 2018, 2016 - 2017
Spektroskopi, Postgraduate, 2016 - 2017
Spektroskopi I ve II, Doctorate, 2016 - 2017
UZMANLIK ALANI I,II, Doctorate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
SPEKT.YÖN.I,II, Doctorate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
FİZİK I,II, Undergraduate, 2013 - 2014
Fizikte Matematiksel Yöntemler I , II, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
İNOVASYON ve TEKNOLOJİ YÖNETİMİ, Undergraduate, 2013 - 2014
UZMANLIK ALANI I,II, Postgraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Two new Schiff bases of (E)-2,4-di-tert-butyl-6-((4-fluorophenylimino)methyl)phenol (I) and (E)-2,4-di-tert-butyl-6-((3-iodo-4-methylphenylimino)methyl)phenol (II): structural, spectroscopic and quantum chemical calculations**
Guzel E., Macit M., Erguzeloglu E., KALECİK S., Kelesoglu Z., Yavuz M.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.763, no.1, pp.96-113, 2023 (SCI-Expanded)
- II. **Experimental (XRD, FTIR, UV-Vis, NMR) and theoretical investigations (chemical activity descriptors, NBO, DNA/ECT) of (E)-2-((2-hydroxy-5-methoxybenzylidene)amino)-4-nitrophenol**
Guzel E., DEMİRCİOĞLU Z., Cicek C., Ağar E., Yavuz M.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.724, no.1, pp.58-76, 2021 (SCI-Expanded)
- III. **5-Methyl-2-hydroxy-acetophenone-S-methyl-thiosemicarbazone and its nickel-PPh₃ complex. Synthesis, characterization, and DFT calculations**
GÜVELİ Ş., Kilic-Cikla I., ÜLKÜSEVEN B., Yavuz M., BAL DEMİRCİ T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1173, pp.366-374, 2018 (SCI-Expanded)
- IV. **Molecular and Crystal Structure of 2-[(E)-[(5-Chloro-2-methoxyphenyl)imino]methyl]-4-nitrophenol(1)**
Kaynar N. K., Ağar E., TANAK H., Şahin S., Buyukgungor O., Yavuz M.
CRYSTALLOGRAPHY REPORTS, vol.63, no.3, pp.372-374, 2018 (SCI-Expanded)

- V. **Crystal Structure of 2-((E)-(5-Bromo-2-hydroxybenzylidene)hydrazono)-1,2-diphenylethanone(1)**
Kaynar N. K., Yavuz M., TANAK H., Şahin S., Buyukgungor O., Ağar E.
CRYSTALLOGRAPHY REPORTS, vol.63, no.3, pp.375-378, 2018 (SCI-Expanded)
- VI. **X-ray diffraction, spectroscopic and DFT studies on nickel(II)-triphenylphosphine complexes of 2-hydroxyacetophenone thiosemicarbazones**
Kilic-Cikla I., GÜVELİ Ş., Bal-Demirci T., AYĞÜN M., ÜLKÜSEVEN B., Yavuz M.
POLYHEDRON, vol.130, pp.1-12, 2017 (SCI-Expanded)
- VII. **Molecular and crystal structure of 2-((E)-[(4-Methylphenyl)imino]methyl)-4-nitrophenol: A redetermination**
Kaynar N. K., TANAK H., Şahin S., DEGE N., Ağar E., Yavuz M.
CRYSTALLOGRAPHY REPORTS, vol.61, no.2, pp.239-242, 2016 (SCI-Expanded)
- VIII. **5-Methyl-2-hydroxy-acetophenone-thiosemicarbazone and its nickel(II) complex: Crystallographic, spectroscopic (IR, NMR and UV) and DFT studies**
Kilic-Cikla I., GÜVELİ Ş., Yavuz M., Bal-Demirci T., ÜLKÜSEVEN B.
POLYHEDRON, vol.105, pp.104-114, 2016 (SCI-Expanded)
- IX. **(Z)-2-Methoxy-N-[(5-nitrothiophen-2-yl)methylidene]aniline**
Kaynar N. K., Gumus S., Ağar E., Buyukgungor O., Yavuz M.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.68, 2012 (SCI-Expanded)
- X. **Combined Experimental and Computational Modeling Studies on 4-[(2-Hydroxy-3-methylbenzylidene)amino]-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one**
Tanak H., Alaman Ağar A., Yavuz M.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.111, no.9, pp.2123-2136, 2011 (SCI-Expanded)
- XI. **Density functional modelling studies on N-2-Methoxyphenyl-2-oxo-5-nitro-1-benzylidenemethylamine**
Yavuz M., Tanak H.
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.961, no.1-3, pp.9-16, 2010 (SCI-Expanded)
- XII. **2-Amino-4-nitrophenol monohydrate**
Tanak H., Ersahin F., Yavuz M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.66, 2010 (SCI-Expanded)
- XIII. **Experimental and quantum chemical calculational studies on 2-[(4-Fluorophenylimino)methyl]-3,5-dimethoxyphenol**
Tanak H., Alaman Ağar A., Yavuz M.
JOURNAL OF MOLECULAR MODELING, vol.16, no.3, pp.577-587, 2010 (SCI-Expanded)
- XIV. **Experimental and DFT computational studies on 5-benzyl-4-(3,4-dimethoxyphenethyl)-2H-1,2,4-triazol-3(4H)-one**
Tanak H., Köysal Y., Yavuz M., Buyukgungor O., SANCAR K.
JOURNAL OF MOLECULAR MODELING, vol.16, no.3, pp.447-457, 2010 (SCI-Expanded)
- XV. **Density functional computational studies on (E)-2-[(2-Hydroxy-5-nitrophenyl)-iminiomethyl]-4-nitrophenolate**
Tanak H., Yavuz M.
JOURNAL OF MOLECULAR MODELING, vol.16, no.2, pp.235-241, 2010 (SCI-Expanded)
- XVI. **1-Benzoylmethyl-3-(2-thienylmethyl)-4-(2-thienylmethyleamino)-1H-1,2,4-triazol-5(4H)-one**
Tanak H., Yavuz M., Lagap Z., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.66, 2010 (SCI-Expanded)
- XVII. **Experimental and quantum chemical calculational studies on 2-[(4-propylphenylimino)methyl]-4-nitrophenol**
Alaman Ağar A., Tanak H., Yavuz M.
MOLECULAR PHYSICS, vol.108, no.13, pp.1759-1772, 2010 (SCI-Expanded)
- XVIII. **An experimental and DFT computational study on 4-(3-(1H-imidazol-1-yl)propyl)-5-methyl-2H-1,2,4-triazol-3(4H)-one monohydrate**
Tanak H., Köysal Y., ÜNVER Y., Yavuz M., Isik S., SANCAR K.

MOLECULAR PHYSICS, vol.108, no.2, pp.127-139, 2010 (SCI-Expanded)

- XIX. **2-Hydroxy-5-nitrobenzaldehyde**
Tanak H., Macit M., Yavuz M., Isik S.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)
- XX. **4-(2,3-Dihydroxybenzylideneamino)-3-methyl-1H-1,2,4-triazol-5(4H)-one**
Tanak H., Köysal Y., Yavuz M., Isik S., Gul G.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)
- XXI. **2-Methyl-6-[2-(trifluoromethyl)phenyliminomethyl]phenol**
Tanak H., Yavuz M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)
- XXII. **Theoretical modeling and experimental studies on N-n-Decyl-2-oxo-5-nitro-1-benzylidene-methylamine**
Tanak H., Ersahin F., Köysal Y., Ağar E., Isik S., Yavuz M.
JOURNAL OF MOLECULAR MODELING, vol.15, no.10, pp.1281-1290, 2009 (SCI-Expanded)
- XXIII. **2-[(2,4-Dimethylphenyl)iminomethyl]-6-methylphenol**
Tanak H., Ersahin F., Ağar E., Yavuz M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)
- XXIV. **2-[(2,4-Dimethylphenyl)iminomethyl]-3,5-dimethoxyphenol**
Tanak H., Alpaslan Y. B., Yavuz M., Ağar E., Ersahin F., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, pp.1572-1580, 2009 (SCI-Expanded)
- XXV. **Experimental and DFT studies of ethyl N'-3-(1H-imidazol-1-yl) propylcarbamoyl benzohydrazone monohydrate**
Tanak H., Köysal Y., ÜNVER Y., Yavuz M., Isik S., SANCAR K.
STRUCTURAL CHEMISTRY, vol.20, no.3, pp.409-416, 2009 (SCI-Expanded)
- XXVI. **Experimental and DFT Studies of N-2-Methoxyphenyl-2-oxo-5-nitro-1-benzylidenemethylamine: In Gas Phase and Solvent Media.**
Tanak H., Yavuz M., Buyukgungor O., Ersahin F., Ağar E.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (SCI-Expanded)
- XXVII. **(1R,2SR,6SR,7SR)-4,10-dioxatricyclo[5.2.1.0(2,6)]dec-8-en-3-one**
Ustabas R., SALAMCI E., Coruh U., Vazquez-Lopez E. M., Yavuz M.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)
- XXVIII. **Cyclooctane-1,2,5,6-tetraol tetraacetate**
SALAMCI E., Ustabas R., Coruh U., Yavuz M., Vazquez-Lopez E. M.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)
- XXIX. **Calculation of nuclear-attraction and modified overlap integrals using Gegenbauer coefficients**
Öztekin E., Özcan S., Orbay M., Yavuz M.
International Journal of Quantum Chemistry, vol.90, no.1, pp.136-143, 2002 (SCI-Expanded)
- XXX. **Formulas and numerical table for the radial part of overlap integrals with the same screening parameters of Slater-type orbitals**
Öztekin E., Yavuz M., Atalay S.
Theoretical Chemistry Accounts, vol.106, no.4, pp.264-270, 2001 (SCI-Expanded)
- XXXI. **Calculations of overlap integrals using recurrence-based algorithms**
Öztekin E., Yavuz M., Atalay M.
Journal of Molecular Structure: THEOCHEM, vol.544, no.1-3, pp.69-77, 2001 (SCI-Expanded)
- XXXII. **EPR of UV photolyzed tetramethylammonium acetate and tributyltin acetate powders**
Öztekin E., Yavuz M., Kalkan H.
Spectroscopy Letters, vol.34, no.5, pp.639-646, 2001 (SCI-Expanded)
- XXXIII. **Electron paramagnetic resonance of gamma irradiated (CH₃)₃NHClO₄ and CH₃NH₃ClO₄ single crystals**
Yavuz M., Köksal F.

Articles Published in Other Journals

- I. **Molecular Docking and ADME Studies for (E)-2,4-di-tert butyl-6-((4-fluorophenylimino)methyl) phenol ve (E)-2,4-di-tert-butyl-6-((3-iodo-4-methylphenylimino)methyl) phenol Compounds**
Güzel E., Macit M., Yavuz M.
Karadeniz Fen Bilimleri Dergisi, vol.13, no.3, pp.997-1011, 2023 (Peer-Reviewed Journal)
- II. **Light Pollution Measurements and Evaluation by Unmanned Aerial Vehicle (UAV) in Atakum**
TÜRK Ö., Yavuz M.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.18, no.2, pp.99-109, 2023 (Peer-Reviewed Journal)
- III. **Chemical Activity and Spectroscopic Studies of 3,5- Di- Tert-butyl-2-Hydroxybenzaldehyde Compound**
Güzel E., Macit M., ergüzeloğlu e., METİN Y.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.285-297, 2023 (Peer-Reviewed Journal)
- IV. **(E)-4-bromo-5-floro-2-(((4-(fenilamino)fenil)imino)metil)fenol Bileşiğinin Kimyasal Aktivite ve Spektroskopik Çalışmaları**
KALECİK S., güzel e., DOĞAN O. E., AĞAR E., YAVUZ M.
Karadeniz Fen Bilimleri Dergisi, vol.12, 2022 (Peer-Reviewed Journal)
- V. **Yenilenebilir Enerjide Teknoloji Analizi**
ÖZDEMİR Y. E., YAVUZ M.
Avrupa Bilim ve Teknoloji Dergisi, no.29, pp.138-143, 2021 (Peer-Reviewed Journal)
- VI. **(E)-2-[(4-Anilinophenyl)imino]methyl-4-bromo-5-fluorophenol/title**
KALECİK S., YAVUZ M., KAVRAZ F., ESERCİ H., AĞAR E.
IUCR DATA, vol.2, no.12, pp.171708, 2017 (Peer-Reviewed Journal)
- VII. **(E)-2-[(5-Chloro-2-methoxyphenyl)imino]methyl-4-nitrophenol**
Öv Bodur G. S., YAVUZ M., DEGE N., BÜLBÜL H., AĞAR E.
IUCR DATA, vol.2, no.2, pp.170177, 2017 (Peer-Reviewed Journal)
- VIII. **Üniversite-Sanayi İşbirliği: Dünü, Bugünü, Geleceği**
KURT Ü., YAVUZ M.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.17, no.1, pp.50-57, 2013 (Peer-Reviewed Journal)
- IX. **2-[(E)-(2-Methyl-3-nitrophenyl)imino]methyl-4-nitrophenol**
TANAK H., Togurman F., Kalecik S., DEGE N., Yavuz M.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.69, 2013 (ESCI)
- X. **Crystal Structure of N-2-Methoxyphenyl-2-oxo-5-nitro-1-benzylidene-methylamine**
TANAK H., ERŞAHİN F., AĞAR E., BÜYÜKGÜNGÖR O., YAVUZ M.
Analytical Sciences: X-ray Structure Analysis Online, vol.24, pp.237-238, 2008 (Peer-Reviewed Journal)
- XI. **The Angular Distribution of Radiated Power for Electrons in a Helical Magnetic Field**
ÖZTEKİN E., YAVUZ M., ATALAY Ş.
BULLETIN OF PURE & APPLIED SCIENCES - PHYSICS, vol.19, no.2, pp.151-158, 2000 (Peer-Reviewed Journal)
- XII. **The angular distribution of radiated power for electrons in helical magnetic field**
ÖZTEKİN E., YAVUZ M., ATALAY Ş.
Bulletin Pure and Applied Sciences, vol.19, no.2, pp.151-158, 2000 (Peer-Reviewed Journal)
- XIII. **EPR study of gamma irradiated RBCL04 single crystals**
YAVUZ M., BULUT A., KALKAN H., ÖZTEKİN E.
ARI, vol.51, no.6, pp.10, 1998 (Peer-Reviewed Journal)
- XIV. **Electron Paramagnetic Resonance of some Irradiated Ammonium Compounds**
Köksal F., Yavuz M.

Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Some Inventive Problem Solving Methods**
MUTUK H., YAVUZ M.
International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017
- II. **5 bromür 2 hidroksiasetofenon tiyosemikarbazon ligandı ve nikel II kompleksinin kristalografik spektroskopik IR UV Vis ve ¹H NMR ve DFT çalışmaları**
Kılıç Cıkla I., GÜVELİ Ş., YAVUZ M., BAL DEMİRCİ T., ÜLKÜSEVEN B.
1st international conference on engeneering technology and applied sciences, 21 - 22 April 2016
- III. **3,5-Diphenyl-4-(3,4,5-trimethoxybenzylidenamino)-4H-1,2,4-triazole'un Kristal ve Moleküler Yapısının Analizi**
ATALAY Ş., YAVUZ M., BEKİRCAN O., ALAMAN AĞAR A., ŞAŞMAZ S.
1. Ulusal Kristalografi Toplantısı, Samsun, Turkey, 22 - 24 April 2004
- IV. **EPR of Gamma Irradiated [(CH₃)₃NH]₂CdCl₄SingleCrystals**
ATALAY Ş., KALKAN H., YAVUZ M., ŞENEL İ.
International Symposium on Lasers, AtomicandMolecularPhysics, LAMP 97, İstanbul Technical University., 16 - 20 September 1997, vol.51, pp.81-85
- V. **SingleCrystals EPR Study of VO₂ in Ba₂Zn(HCOO)₆·4H₂O**
ATALAY Ş., KALKAN H., YAVUZ M., ŞENEL İ.
International Symposium on Lasers, AtomicandMolecularPhysics, LAMP 97, İstanbul Technical University, 16 - 20 September 1997, vol.51, pp.66-69

Supported Projects

Yavuz M., Project Supported by Higher Education Institutions, "Samsun'un Atakum İlçesinde Işık Kirliliği Ölçümleri ve Değerlendirilmesi", 2017 - 2019