

Prof. Dr. MUSTAFA KURBAN

Kişisel Bilgiler

İş Telefonu: [+90 312 381 2350](tel:+903123812350) Dahili: 6598
Fax Telefonu: [+90 312 381 2355](tel:+903123812355)
E-posta: kurbanm@ankara.edu.tr
Diğer E-posta: mkurbanphys@gmail.com
Web: <https://avesis.ankara.edu.tr/kurbanm>
Posta Adresi: Fatih Caddesi No:197/7 PK:06290 Keçiören/ANKARA

Uluslararası Araştırmacı ID'leri

ScholarID: -xcZFYwAAAAJ
ORCID: 0000-0002-7263-0234
Publons / Web Of Science ResearcherID: P-8494-2019
ScopusID: 56940375000
Yoksis Araştırmacı ID: 134821

Eğitim Bilgileri

Post Doktora, University of California, Riverside, Malzeme Bilimi ve Mühendisliği, Amerika Birleşik Devletleri 2018 - 2019
Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2010 - 2016

Araştırma Alanları

Sağlık Bilimleri, Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Ankara Üniversitesi, Sağlık Bilimleri Fakültesi, Ortez-Protez Bölümü, 2025 - Devam Ediyor
Doç. Dr., Ankara Üniversitesi, Sağlık Bilimleri Fakültesi, Ortez-Protez Bölümü, 2023 - 2025
Doç. Dr., Kırşehir Ahi Evran Üniversitesi, Mühendislik ve Mimarlık Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - 2023
Dr. Öğr. Üyesi, Kırşehir Ahi Evran Üniversitesi, Teknik Bilimler MYO, Elektronik ve Otomasyon, 2017 - 2020
Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2010 - 2016

Akademik İdari Deneyim

Uygulama ve Araştırma Merkezi Müdürü, Kırşehir Ahi Evran Üniversitesi, 2019 - 2023

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Drug delivery potential of γ -graphyne, 6,6,12-graphyne and γ -graphdiyne for 5-Fluorouracil: insights from DFT calculations**
Maurya A., Mishra A. N., Srivastava J., Mishra S., Pal M., Shukla R., Siddiqui Z., KURBAN M., Prasad O., Sinha L.

COMPOSITE INTERFACES, 2025 (SCI-Expanded)

- II. **QUANTUMSHELLNET: : Ground-state eigenvalue prediction of materials using electronic shell structures and fermionic properties via convolutions**
Polat C., Kurban H., KURBAN M.
COMPUTATIONAL MATERIALS SCIENCE, cilt.246, 2025 (SCI-Expanded)
- III. **Multimodal neural network-based predictive modeling of nanoparticle properties from pure compounds**
Polat C., KURBAN M., Kurban H.
MACHINE LEARNING-SCIENCE AND TECHNOLOGY, cilt.5, sa.4, 2024 (SCI-Expanded)
- IV. **Drug delivery potential of carbon and boron nitride nanotubes: A DFT-D3 analysis of curcumin binding interactions**
Bechohra L. L., KURBAN M., Medigue N. E. H., Kellou-Taïri S.
Diamond and Related Materials, cilt.149, 2024 (SCI-Expanded)
- V. **Elucidating roles of fulleropyrrolidine-based materials as extraordinary electron transporters for boosting efficiency of perovskite photovoltaics**
Kurban M., Shariatinia Z.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.194, ss.112220, 2024 (SCI-Expanded)
- VI. **Computational study of new small molecules D-A based on triphenylamines for bulk heterojunction solar cells (BHJ)**
Mouhi R. E., Slimi A., Khattabi S. E., Benjelloun A. T., Fitri A., Benzakour M., Mcharfi M., KURBAN M.
Computational and Theoretical Chemistry, cilt.1241, 2024 (SCI-Expanded)
- VII. **Enhancing the electronic properties of TiO₂ nanoparticles through carbon doping: An integrated DFTB and computer vision approach**
KURBAN M., Polat C., Serpedin E., Kurban H.
Computational Materials Science, cilt.244, 2024 (SCI-Expanded)
- VIII. **Rational and green functionalization of B₃N-C₆₀ by DNA bases devised as incredible electron transport compounds for perovskite photovoltaic devices**
Shariatinia Z., KURBAN M.
Materials Today Communications, cilt.39, 2024 (SCI-Expanded)
- IX. **Investigating the effect of Zn doping and temperature on the photoluminescence behaviour of CuLaSe₂ quantum dots**
Çadırcı M., Elibol E., Demirci T., KURBAN M.
Luminescence, cilt.39, sa.4, 2024 (SCI-Expanded)
- X. **Rational design of SnO₂ thin film coated cathode with function of entrapping polysulfides for performance enhanced Li-S batteries**
Shang R., KURBAN M., ma Y., Ozkan M., Ozkan C. S.
Journal of Power Sources, cilt.597, 2024 (SCI-Expanded)
- XI. **Chelant-enhanced solution for wafer-scale synthesis of few-layer WS₂ films**
Isarraraz M., Pena P., Sayyad M., Yang S., Li H., Akhavi A., Rashetnia M., Shang R., Coley W., Cui Y., et al.
MRS BULLETIN, cilt.48, sa.10, ss.1073-1085, 2023 (SCI-Expanded)
- XII. **Size-dependent adsorption performance of ZnO nanoclusters for drug delivery applications**
Kurban M., Muz I.
STRUCTURAL CHEMISTRY, cilt.34, sa.3, ss.1061-1071, 2023 (SCI-Expanded)
- XIII. **Sulfur doping concentration effect on the electronic and structural properties of ZnO nanoparticles: Insights from DFTB calculations**
Kurban M.
COMPUTATIONAL AND THEORETICAL CHEMISTRY, cilt.1224, 2023 (SCI-Expanded)
- XIV. **Superporous nanocarbon materials upcycled from polyethylene terephthalate waste for scalable energy storage**
Mirjalili A., Dong B., Zerrin T., Akhavi A., Kurban M., Ozkan C. S., Ozkan M.
JOURNAL OF ENERGY STORAGE, cilt.58, 2023 (SCI-Expanded)

- XV. **A strategy to enhance V-OC of pi-conjugated molecules based on thieno[2,3-b] indole for applications in bulk heterojunction organic solar cells using DFT, TD-DFT, and 3D-QSPR modeling studies**
El Mouhi R., Daoui O., Fitri A., Benjelloun A. T., El Khattabi S., Benzakour M., Mcharfi M., Kurban M.
NEW JOURNAL OF CHEMISTRY, cilt.47, sa.2, ss.812-827, 2023 (SCI-Expanded)
- XVI. **Zinc oxide nanoclusters and their potential application as CH₄ and CO₂ gas sensors: Insight from DFT and TD-DFT**
Muz I., Kurban M.
JOURNAL OF COMPUTATIONAL CHEMISTRY, cilt.43, sa.27, ss.1839-1847, 2022 (SCI-Expanded)
- XVII. **Rapidly predicting Kohn-Sham total energy using data-centric AI**
Kurban H., Kurban M., Dalkilic M. M.
SCIENTIFIC REPORTS, cilt.12, sa.1, 2022 (SCI-Expanded)
- XVIII. **DFT, DFTB and TD-DFT theoretical investigations of p-conjugated molecules based on thieno[2,3-b] indole for dye-sensitized solar cell applications**
El Mouhi R., Slimi A., Fitri A., Benjelloun A. T., ElKhattabi S., Benzakour M., Mcharfi M., Kurban M.
PHYSICA B-CONDENSED MATTER, cilt.636, 2022 (SCI-Expanded)
- XIX. **A density functional theory study on favipiravir drug interaction with BN-doped C₆₀ heterofullerene**
Muz I., GÖKTAŞ F., Kurban M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.135, 2022 (SCI-Expanded)
- XX. **A first-principles evaluation on the interaction of 1,3,4-oxadiazole with pristine and B-, Al-, Ga-doped C-60 fullerenes**
Muz I., Kurban M.
JOURNAL OF MOLECULAR LIQUIDS, cilt.335, 2021 (SCI-Expanded)
- XXI. **Building Machine Learning systems for multi-atoms structures: CH₃NH₃PbI₃ perovskite nanoparticles**
Kurban H., Kurban M.
COMPUTATIONAL MATERIALS SCIENCE, cilt.195, 2021 (SCI-Expanded)
- XXII. **Sensing capability and diameter-dependent electronic structure of boron nitride nanotubes**
Muz I., Alaei S., Kurban M.
MATERIALS TODAY COMMUNICATIONS, cilt.27, 2021 (SCI-Expanded)
- XXIII. **Rare-class learning over Mg-doped ZnO nanoparticles**
Kurban H., Kurban M.
CHEMICAL PHYSICS, cilt.546, 2021 (SCI-Expanded)
- XXIV. **Effect of Mg content on electronic structure, optical and structural properties of amorphous ZnO nanoparticles: A DFTB study**
Kurban H., Alaei S., Kurban M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.560, 2021 (SCI-Expanded)
- XXV. **A DFT study on stability and electronic structure of AlN nanotubes**
Muz I., Kurban H., Kurban M.
MATERIALS TODAY COMMUNICATIONS, cilt.26, 2021 (SCI-Expanded)
- XXVI. **Single- and multi-layer arsenene as an anode material for Li, Na, and K-ion battery applications**
Kanli M., Kurban M., Ozdemir B., Onen A., Durgun E.
COMPUTATIONAL MATERIALS SCIENCE, cilt.186, 2021 (SCI-Expanded)
- XXVII. **Electronic structures and bonding of graphdiyne and its BN analogs: Transition from quasi-planar to planar sheets**
Muz I., Kurban M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.846, 2020 (SCI-Expanded)
- XXVIII. **The electronic structure, transport and structural properties of nitrogen-decorated graphdiyne nanomaterials**
Muz I., Kurban M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.842, 2020 (SCI-Expanded)

- XXIX. **Size dependence in the electronic and optical properties of a BN analogue of two-dimensional graphdiyne: A theoretical study**
Muz I, Goktaa F, Kurban M.
CHEMICAL PHYSICS, cilt.539, 2020 (SCI-Expanded)
- XXX. **Tailoring the structural properties and electronic structure of anatase, brookite and rutile phase TiO₂ nanoparticles: DFTB calculations**
Kurban H., Dalkilic M., TEMİZ S., Kurban M.
COMPUTATIONAL MATERIALS SCIENCE, cilt.183, 2020 (SCI-Expanded)
- XXXI. **DFT and TD-DFT studies of new pentacene-based organic molecules as a donor material for bulk-heterojunction solar cells**
Muz I, Kurban M., Dalkilic M.
JOURNAL OF COMPUTATIONAL ELECTRONICS, cilt.19, sa.3, ss.895-904, 2020 (SCI-Expanded)
- XXXII. **Theoretical investigation of the adsorption behaviors of fluorouracil as an anticancer drug on pristine and B-, Al-, Ga-doped C₃₆ nanotube**
Kurban M., Muz I.
JOURNAL OF MOLECULAR LIQUIDS, cilt.309, 2020 (SCI-Expanded)
- XXXIII. **Electronic Transport and Non-linear Optical Properties of Hexathiopentacene (HTP) Nanorings: A DFT Study**
Muz I, Kurban M.
JOURNAL OF ELECTRONIC MATERIALS, cilt.49, sa.5, ss.3282-3289, 2020 (SCI-Expanded)
- XXXIV. **Evaluation of electronic transport and optical response of two-dimensional Fe-doped TiO₂ thin films for photodetector applications**
Kara F., Kurban M., Coskun B.
OPTIK, cilt.210, 2020 (SCI-Expanded)
- XXXV. **A combined experimental and DFT/TD-DFT studies on the electronic structure, structural and optical properties of quinoline derivatives**
Kurban M., Sertbakan T. R., Gunduz B.
JOURNAL OF MOLECULAR MODELING, cilt.26, sa.6, 2020 (SCI-Expanded)
- XXXVI. **Suppression of the Shuttle Effect in Li-S Batteries via Magnetron Sputtered TiO₂ Thin Film at the Electrode-Electrolyte Interface**
Zerrin T., Kurban M., Dickson M. M., Ozkan M., Ozkan C. S.
ACS APPLIED ENERGY MATERIALS, cilt.3, sa.2, ss.1515-1529, 2020 (SCI-Expanded)
- XXXVII. **3d-transition metals (Cu, Fe, Mn, Ni, V and Zn)-doped pentacene pi-conjugated organic molecule for photovoltaic applications: DFT and TD-DFT calculations**
Muz I, GÖKTAŞ F., Kurban M.
THEORETICAL CHEMISTRY ACCOUNTS, cilt.139, sa.2, 2020 (SCI-Expanded)
- XXXVIII. **Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching**
Koyluoglu B., Alaei S., Kurban M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.33, sa.31, 2019 (SCI-Expanded)
- XXXIX. **Density-functional tight-binding approach for the structural analysis and electronic structure of copper hydride metallic nanoparticles**
Kurban H., Kurban M., Dalkilic M.
MATERIALS TODAY COMMUNICATIONS, cilt.21, 2019 (SCI-Expanded)
- XL. **A comprehensive study on electronic structure and optical properties of carbon nanotubes with doped B, Al, Ga, Si, Ge, N, P and As and different diameters**
Muz I, Kurban M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.802, ss.25-35, 2019 (SCI-Expanded)
- XLI. **A study of structural phase transitions and optoelectronic properties of perovskite-type hydride MgFeH₃: ab initio calculations**
Kurban M., Kurkcu C., Yamcicler C., GÖKTAŞ F.

- JOURNAL OF PHYSICS-CONDENSED MATTER, cilt.31, sa.30, 2019 (SCI-Expanded)
- XLII. **Enhancement of electronic, photophysical and optical properties of 5,5 '-Dibromo-2,2 '-bithiophene molecule: new aspect to molecular design**
Muz I., Kurban M.
OPTO-ELECTRONICS REVIEW, cilt.27, sa.2, ss.113-118, 2019 (SCI-Expanded)
- XLIII. **Tunable electronic structure and structural transition of GaAs clusters at high pressure and temperature**
Kurban M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.791, ss.1159-1166, 2019 (SCI-Expanded)
- XLIV. **Experimental and theoretical studies of the structural, electronic and optical properties of BCzVB organic material**
Kurban M., Gunduz B., GÖKTAŞ F.
OPTIK, cilt.182, ss.611-617, 2019 (SCI-Expanded)
- XLV. **Structural evolution and electronic properties of CaS: An ab initio study**
Kurkcü C., Yamcıciçer C., Kurban M.
SOLID STATE SCIENCES, cilt.90, ss.14-20, 2019 (SCI-Expanded)
- XLVI. **Photophysical, spectroscopic properties and electronic structure of BND: Experiment and theory**
Sas E. B., Kurban M., Gunduz B., Kurt M.
SYNTHETIC METALS, cilt.246, ss.39-44, 2018 (SCI-Expanded)
- XLVII. **Photophysical and optical properties of 5-Bromo-2-nitropyridine organic molecule: Experiment and theory**
Gunduz B., Kurban M.
OPTICAL MATERIALS, cilt.85, ss.373-381, 2018 (SCI-Expanded)
- XLVIII. **Electronic structure, elastic and phonon properties of perovskite-type hydrides MgXH₃ (X = Fe, Co) for hydrogen storage**
Candan A., Kurban M.
SOLID STATE COMMUNICATIONS, cilt.281, ss.38-43, 2018 (SCI-Expanded)
- XLIX. **Investigation of Structural, Vibrational Properties and Electronic Structure of Fluorene-9-Bisphenol: A DFT Approach**
Kotiloglu S. O., Celik S., Tanis E., Kurban M.
CHEMISTRYSELECT, cilt.3, sa.21, ss.5934-5940, 2018 (SCI-Expanded)
- L. **Ab initio study of structural and electronic properties of SinC₅-nH₈ (n=0-5) series: Probing the 2D to 3D structural transition**
Muz I., Kurban M.
INORGANICA CHIMICA ACTA, cilt.477, ss.318-325, 2018 (SCI-Expanded)
- LI. **Photonic, spectroscopic properties and electronic structure of PTCDI-C₈ organic nanostructure**
Gunduz B., Kurban M.
VIBRATIONAL SPECTROSCOPY, cilt.96, ss.46-51, 2018 (SCI-Expanded)
- LII. **Analysis of the geometrical properties and electronic structure of arsenide doped boron clusters: Ab-initio approach**
Muz I., Kurban M., Sanli K.
INORGANICA CHIMICA ACTA, cilt.474, ss.66-72, 2018 (SCI-Expanded)
- LIII. **The structural, electronic and spectroscopic properties of 4FPBAPE molecule: Experimental and theoretical study**
Tanis E., Sas E. B., Kurban M., Kurt M.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1154, ss.301-318, 2018 (SCI-Expanded)
- LIV. **Electronic structure, optical and structural properties of Si, Ni, B and N-doped a carbon nanotube: DFT study**
Kurban M.
OPTIK, cilt.172, ss.295-301, 2018 (SCI-Expanded)
- LV. **Electronic structure, optical and structural properties of organic 5,5 '-Dibromo-2,2 '-bithiophene**

- Kurban M., Gunduz B.
OPTIK, cilt.165, ss.370-379, 2018 (SCI-Expanded)
- LVI. **Study of structural, optical properties and electronic structure of PTCDI-C5 organic nanostructure**
Kurban M., Gunduz B.
CHEMICAL PHYSICS LETTERS, cilt.691, ss.14-21, 2018 (SCI-Expanded)
- LVII. **Physical and optical properties of DCJTb dye for OLED display applications: Experimental and theoretical investigation**
Kurban M., Gunduz B.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1137, ss.403-411, 2017 (SCI-Expanded)
- LVIII. **Segregation formation, thermal and electronic properties of ternary cubic CdZnTe clusters: MD simulations and DFT calculations**
Kurban M., Erkoç S.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.88, ss.243-251, 2017 (SCI-Expanded)
- LIX. **Mechanical properties of CdZnTe nanowires under uniaxial stretching and compression: A molecular dynamics simulation study**
Kurban M., Erkoç S.
COMPUTATIONAL MATERIALS SCIENCE, cilt.122, ss.295-300, 2016 (SCI-Expanded)
- LX. **Microstructural properties and local atomic structures of cobalt oxide nanoparticles synthesised by mechanical ball-milling process**
Akgül F. A., Akgül G., Kurban M.
PHILOSOPHICAL MAGAZINE, cilt.96, sa.30, ss.3211-3226, 2016 (SCI-Expanded)
- LXI. **Structural and thermal properties of Cd-Zn-Te ternary nanoparticles: Molecular-dynamics simulations**
Kurban M., MALCIOĞLU O. B., Erkoç S.
CHEMICAL PHYSICS, cilt.464, ss.40-45, 2016 (SCI-Expanded)
- LXII. **Structural and Electronic Properties of $Zn_mCd_nTe_k$ ($m+n+k=2-4$) Clusters: DFT Calculations**
Kurban M., Erkoç S.
JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, cilt.12, sa.9, ss.2605-2615, 2015 (SCI-Expanded)
- LXIII. **Quantum dynamics of $H(S-2) + FO((2)Pi) \rightarrow HF((1)Sigma(+)) + O(P-3)$ reaction on the $1(3)A'$ state**
Kurban M., GÖKTAŞ F., Karabulut E., Tutuk R.
MOLECULAR PHYSICS, cilt.109, sa.5, ss.789-795, 2011 (SCI-Expanded)
- LXIV. **Time-Dependent Quantum Study of $H(S-2)+FO((2)Pi) \rightarrow OH((2)Pi)+F(P-2)$ Reaction on the $1(3)A'$ and $1(3)A''$ States**
GÖKTAŞ F., Tutuk R., Kurban M.
JOURNAL OF COMPUTATIONAL CHEMISTRY, cilt.31, sa.14, ss.2607-2611, 2010 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Controlling structural and electronic properties of ZnO NPs: Density-functional tight-binding method**
KURBAN M., KURBAN H., Dalkılıç M.
Bilge International Journal of Science and Technology Research, cilt.3, ss.35-39, 2019 (Hakemli Dergi)
- II. **The effects of a single atom substitution and temperature on electronic and photophysical properties F8T2 organic material**
KURBAN M.
Bilge International Journal of Science and Technology Research, cilt.3, ss.40-44, 2019 (Hakemli Dergi)
- III. **Study of Structural and Optoelectronic Properties of Hexagonal ZnO Nanoparticles**
KURBAN H., Kurban M.

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, cilt.6, sa.2, ss.243-250, 2019 (Hakemli Dergi)

IV. MOLECULAR DYNAMICS STUDY ON THE STRUCTURAL, THERMAL AND ENERGETIC PROPERTIES OF GaAs NANOPARTICLES

KURBAN M.

Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, cilt.19, sa.3, ss.620-627, 2018 (Hakemli Dergi)

V. Size- and composition-dependent structure of ternary Cd-Te-Se nanoparticles

Kurban M.

TURKISH JOURNAL OF PHYSICS, cilt.42, sa.4, ss.443-454, 2018 (ESCI)

VI. Investigation of the Structural Properties of CdTe and ZnTe Binary Nanorods Under Heat Treatment Molecular Dynamics Simulations

KURBAN M., ŞAKŞİR E.

Quantum Matter, cilt.5, sa.4, ss.602-606, 2016 (Hakemli Dergi)

VII. Structural properties of $Zn_xCd_{1-x}Te$ 0.25/0.50 and 0.75 ternary nanorods Molecular Dynamics Simulations

KURBAN M., ERKOÇ Ş.

Research and Reviews: Journal of Pure and Applied Physics, cilt.1, sa.4, ss.35-42, 2013 (Hakemli Dergi)

Kitaplar

I. Ternary II-VI Alloys Promising for Application in Photodetectors

KURBAN M., MALCIOĞLU O. B., Erkoç Ş.

Handbook of II-VI Semiconductor-Based Sensors and Radiation Detectors, Ghenadii Korotcenkov, Editör, Springer, Cham, Cham, ss.87-106, 2023

II. II-VI Semiconductors Bandgap Engineering

KURBAN M., ŞİMŞEK Y., Erkoç Ş.

Handbook of II-VI Semiconductor-Based Sensors and Radiation Detectors, Ghenadii Korotcenkov, Editör, Springer, Cham, cham, ss.109-131, 2023

Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

I. Potential of Carbon and Boron Nitride Nanotubes for Drug Delivery Established by Analysis of Curcumin-Nanotubes Binding Interactions : A DFT Investigation

BECHOHRA L. L., KURBAN M., MEDIGUE N. E. H., KELLOU-TAIRI S.

2nd National Conference on Materials Sciences and Engineering (MSE'23), Maghnia, Cezayir, 12 Aralık 2023

II. Effect of Sulfur Doping on Electronic Structure of ZnO Nanoparticles

MUZ İ., KURBAN M.

5th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Türkiye, 23 Kasım 2022

III. Predicting Atom Types of Anatase TiO₂ Nanoparticles with Machine Learning

KURBAN H., KURBAN M., Sharma P., Dalkılıç M.

International Conference on Engineering and Innovative Materials, Singapur, 4 - 06 Eylül 2020, cilt.880, ss.89-94

IV. Functionalized graphdiyne: Size-Dependent electronic and optical properties based on DFTB

KURBAN M., MUZ İ.

3rd International Conference on Physical Chemistry and Functional Materials, Malatya, Türkiye, 22 - 24 Eylül 2020

V. Structural and electronic properties of favipiravir drug adsorption on the C₃₀B₁₅N₁₅ heterofullerene: DFT studies

MUZ İ., KURBAN M.

3rd International Conference on Physical Chemistry and Functional Materials, Malatya, Türkiye, 22 - 24 Eylül 2020

VI. INVESTIGATION OF ELECTRONIC STRUCTURE AND THERMAL PROPERTIES OF NANO-SATURN FOR

FUNCTIONAL MATERIALS

KURBAN M.

ADIM PHYSICS DAYS VIII, 12 - 15 Ağustos 2019, ss.142-151

- VII. **Investigation of Electrical and Structural Properties of ZrO₂ Thin Films**
COŞKUN B., KURBAN M.
6th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2019), Niğde, Türkiye, 16 - 18 Aralık 2019, ss.349-351
- VIII. **Size Dependent Electronic Structure and Structural Properties of Cupric Oxide (CuO) Nanoparticles**
KURBAN H., KURBAN M., Dalkılıç M.
International Natural Science, Engineering and Material Technologies Conference, İstanbul, Türkiye, 9 - 10 Eylül 2019
- IX. **The Effects of a Single Atom Substitution and Temperature on Electronic and Photophysical Properties F8T2 Organic Material**
KURBAN M.
2nd International Conferences on Science and Technology Natural Science and Technology, 26 - 30 Ağustos 2019, ss.31-38
- X. **Controlling Structural and Electronic Properties of ZnO NPs: Density-Functional Tight-Binding Method**
KURBAN M., KURBAN H., Dalkılıç M.
2nd International Conferences on Science and Technology Natural Science and Technology, Prizren, Sırbistan, 26 - 30 Ağustos 2019, ss.23-30
- XI. **Assessment of Long-Range Corrected (LC) Parameters for Prediction of Electronic Structure of Carbazole**
KURBAN M.
International Natural Science, Engineering and Material Technologies Conference, İstanbul, Türkiye, 9 - 10 Eylül 2019
- XII. **Band Engineering and Photophysical Properties of C-Doped F8T2 Organic Compound**
KURBAN M., COŞKUN B.
International Natural Science, Engineering and Material Technologies Conference, 9 - 10 Eylül 2019
- XIII. **A DFT comparative study of electronic properties on pristine single walled carbon nanotubes**
MUZ İ., KURBAN M.
International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Türkiye, 21 - 23 Haziran 2019
- XIV. **Electronic properties of (4,4) carbon nanotube via 3A, 4A and 5A group atoms doping**
MUZ İ., KURBAN M.
2nd International Conference on Physical Chemistry and Functional Materials, Nevşehir, Türkiye, 25 - 27 Haziran 2019
- XV. **Predicting Chemical Bioavailability of Fluoxastrobin by DFT calculations**
TANIŞ E., KURBAN M., ÖZKAN KOTİLOĞLU S., ÇELİK S.
International Congress on the World of Technology and Advanced Materials (WITAM-2018), Kırşehir, Türkiye, 21 - 23 Eylül 2018, ss.16
- XVI. **Investigation of photophysical and toxicity properties of Pyraclostrobin**
ÇELİK S., TANIŞ E., ÖZKAN KOTİLOĞLU S., KURBAN M.
International Congress on the World of Technology and Advanced Materials (WITAM-2018), Kırşehir, Türkiye, 21 - 23 Eylül 2018, ss.33
- XVII. **Evaluation of Performance of Functionals to Estimate Charge Transport Properties and Excited-State Energies**
BABUR ŞAŞ E., KURBAN M., GÜNDÜZ B., KURT M.
International Congress on the World of Technology and Advanced Materials (WITAM-2018), Kırşehir, Türkiye, 21 - 23 Eylül 2018
- XVIII. **Structural, thermal and vibrational properties of poly-hexamethylene biguanide hydrochloride**

(PHMB)

ÇELİK S., KURBAN M., ÖZKAN KOTİLOĞLU S., TANIŞ E.

International Congress on the World of Technology and Advanced Materials (WITAM-2018), Kırşehir, Türkiye, 21 - 23 Eylül 2018

- XIX. **Electronic Structure, Optical and Spectroscopic Properties of BCzVB Organic Molecule**
GÜNDÜZ B., KURBAN M.
International Conference on Physical Chemistry and Functional Materials (PCFM'xx18), Elazığ, Türkiye, 19 - 21 Haziran 2018, ss.315
- XX. **Controlling Photophysical Properties and Electronic Structure of PTCDI-C8 Nanostructure**
GÜNDÜZ B., KURBAN M.
International Conference on Physical Chemistry and Functional Materials (PCFM'xx18), Elazığ, Türkiye, 19 - 21 Haziran 2018, ss.3-5
- XXI. **Effects of Doped Atoms on the Structural, Electronic and Optical Properties of a Carbon Nanotube**
KURBAN M., GÖKTAŞ F.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukrayna, 2 - 06 Mayıs 2018
- XXII. **Unusual structural phase transition properties of GaAs Clusters under pressure**
KURBAN M., KÜRKCÜ C.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukrayna, 2 - 06 Mayıs 2018, ss.509
- XXIII. **2D-3D STRUCTURAL TRANSITION IN $\text{Si}_n\text{C}_5\text{-nH}_8$ (n=0-5) SERIES**
MUZ İ., KURBAN M.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), 11 - 13 Ekim 2017
- XXIV. **UNDERSTANDING THE STRUCTURAL PROPERTIES OF CdTeSe NANOPARTICLES FOR SOLAR CELL APPLICATIONS**
KURBAN M., MUZ İ.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), 11 - 13 Ekim 2017
- XXV. **ELECTRONIC PROPERTIES OF CO3O4 NANOCLUSTER FROM DENSITY-FUNCTIONAL CALCULATIONS**
MUZ İ., KURBAN M.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), 11 - 13 Ekim 2017
- XXVI. **THE STRUCTURE AND ENERGETIC OF ARSENIDE DOPED BORON CLUSTERS (N=1-9)**
MUZ İ., KURBAN M., Şanlı K.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), 11 - 13 Ekim 2017
- XXVII. **Investigation of Some Physical Features of GaAs Nanoparticles for Solar Cell Applications**
KURBAN M., GÖKTAŞ F.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIALS SCIENCE, 11 - 15 Ekim 2017
- XXVIII. **Molecular Dynamics Simulation of Cu55 Magic Cluster on the Graphene Monolayer**
KURBAN M., Erkoç Ş.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIALS SCIENCE, 11 - 15 Ekim 2017
- XXIX. **Investigation of geometrical, electronic and spectroscopic properties of Fluorene-9-phenol molecule**
ÇELİK S., KURBAN M., ÖZKAN KOTİLOĞLU S., TANIŞ E.
III. International Turkish Congress on Molecular Spectroscopy, Bodrum, Türkiye, 26 - 29 Ağustos 2017, ss.108
- XXX. **A theoretical study of solvent effects on 2-acetoxybenzoic acid molecule**
ÇELİK S., TANIŞ E., ÖZKAN KOTİLOĞLU S., KURBAN M.
III. International Turkish Congress on Molecular Spectroscopy, Bodrum, Türkiye, 26 - 29 Ağustos 2017, ss.154
- XXXI. **Experimental and Theoretical Study on the Electronic and Optoelectronic Properties of 5,5'-Dibromo-2,2'-bithiophene Organic Material for Photovoltaic Application**
KURBAN M., GÜNDÜZ B.
4th International conference on materials and nanotechnology for next generation (MSNG2017)), Sarajevo, Bosna-Hersek, 28 - 30 Haziran 2017, ss.51
- XXXII. **UV Characterizations of 5-Bromo-2-nitropyridine: Experimental and Theoretical Research**

KURBAN M., GÜNDÜZ B.

4th International conference on materials science and nanotechnology for next generation (MSNG2017), Sarajevo, Bosna-Hersek, 28 - 30 Haziran 2017, ss.52

XXXIII. Determination of electronic spectroscopic and optical properties of DCJTb semiconductor by experimental solution technique and theoretical quantum mechanical method

GÜNDÜZ B., KURBAN M.

2nd International Advanced and Functional Materials Technologies (AFMAT), Antalya, Türkiye, 20 - 22 Ekim 2016, ss.36

XXXIV. Computational and experimental thin film investigations on structure energetics and spectroscopy properties of DCJTb

KURBAN M., GÜNDÜZ B.

2nd International Advanced and Functional Materials Technologies (AFMAT), Antalya, Türkiye, 20 - 22 Ekim 2016, ss.31

XXXV. Size dependence and segregation phenomena of copper hydride nanoparticles A molecular dynamics study

KURBAN M.

Turkish Physical Society 32nd International Physics Conference, Bodrum, Türkiye, 6 - 09 Eylül 2016

XXXVI. A molecular dynamics study on the geometrical and energetics properties of Gallium Arsenide nanoparticles under heat treatment

KURBAN M.

Turkish Physical Society 32nd International Physics Conference, Bodrum, Türkiye, 6 - 09 Eylül 2016

XXXVII. Core and surface segregation and thermal properties of CdTe_{0.5}Se_{0.5} ternary nanoparticles

KURBAN M.

12th International Nanoscience and Nanotechnology Conference, Gebze, Türkiye, 3 - 05 Haziran 2016, ss.98

XXXVIII. Geometrical and energetic properties of 15 atom ternary Cd Zn Te clusters

KURBAN M., ERKOÇ Ş.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Türkiye, 24 - 27 Ağustos 2015, ss.373

XXXIX. CdxZnyTez Nanoparçacıkların Termodinamik Özelliklerinin Moleküler Dinamiği Benzetimi ile İncelenmesi

KURBAN M., MALCIOĞLU O. B., ERKOÇ Ş.

20. YOĞUN MADDE FİZİĞİ ANKARA TOPLANTISI, Ankara, Türkiye, 26 Aralık 2014, ss.16

XL. Proper Gaussian basis sets for density functional studies of cobalt oxide clusters

KURBAN M., ERKOÇ Ş.

31th international physics congress, Bodrum, Türkiye, 21 - 24 Temmuz 2014, ss.297

XLI. A molecular dynamics study of the heat capacity of CdTe and ZnTe nanoparticles

KURBAN M., MALCIOĞLU O. B., ERKOÇ Ş.

31th international physics congress, Bodrum, Türkiye, 21 - 24 Temmuz 2014, ss.296

XLII. Size dependence and heat capacity of CdZnTe and CdZn nanoparticles Molecular dynamics simulations

KURBAN M., MALCIOĞLU O. B., ERKOÇ Ş.

31th international physics congress, Bodrum, Türkiye, 21 - 24 Temmuz 2014, ss.295

XLIII. Structural properties of ZnTe and CdTe binary nanorods Molecular Dynamics Simulations

KURBAN M., ERKOÇ Ş.

30th International Physics Congress, İstanbul, Türkiye, 2 - 05 Eylül 2013, ss.371

XLIV. Structural and electronic properties of Zn_mCd_nTe_k clusters Density functional theory calculations

KURBAN M., ERKOÇ Ş.

9TH NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, Erzurum, Türkiye, 24 - 28 Haziran 2013, ss.124

XLV. Structural properties of Zn_xCd_{1-x}Te_{0.25} and 0.50 nanorods

KURBAN M., ERKOÇ Ş.

8th NANOSCIENCE AND NANOTECHNOLOGY CONGRESS, Ankara, Türkiye, 25 - 29 Haziran 2012, ss.234

- XLVI. **Time Dependent Quantum Study of the H₂S + FO₂ + OH₂ + F₂ + P₂ Reaction**
TUTUK R., KARABULUT E., KURBAN M., GÖKTAŞ F.
26. ULUSLARARASI FİZİK KONGRESİ, Bodrum, Türkiye, 24 - 27 Eylül 2009, ss.339
- XLVII. **Quantum Wave Packet Study of D₂ + FO₂ Reaction**
KURBAN M., KARABULUT E., TUTUK R., GÖKTAŞ F.
26. ULUSLARARASI FİZİK KONGRESİ, Bodrum, Türkiye, 24 - 27 Eylül 2009, ss.316
- XLVIII. **Time Dependent Quantum Dynamics study of Reactive Scattering of the H + OF₂ Reaction on the 13A and 13A States**
KURBAN M., GÖKTAŞ F., KARABULUT E., TUTUK R.
27 TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.469
- XLIX. **Quantum Real Wave packet Study of H₂S + FO₂ + HF + O₃ + P₂ Reaction on the 13A State**
KURBAN M., KARABULUT E., TUTUK R., GÖKTAŞ F.
27TH INTERNATINONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.468
- L. **Time Dependent Quantum Study of the Reaction of Hydrogen Isotopes and Fluoroxide Molecule**
KURBAN M., KARABULUT E., GÖKTAŞ F.
27 TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.470
- LI. **Quantum Wave Packet Study of the HCaCl(v, j) -- HCl(v, j) + Ca Reaction**
TUTUK R., KARABULUT E., KURBAN M., GÖKTAŞ F.
27TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.88
- LII. **Quantum Dynamics Study of H + LiF reaction**
KARABULUT E., KURBAN M., TUTUK R., GÖKTAŞ F.
27 TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.457
- LIII. **Quantum Wave Packet Calculation of Reaction Probabilities Cross Section and Rate Constant for H₂ + FO₂ System on the 11A State**
KURBAN M., GÖKTAŞ F.
27 TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.471
- LIV. **Isotope Effects in the XLiF -- XF + Li (X = H, D) Reaction**
KARABULUT E., KURBAN M., TUTUK R., GÖKTAŞ F.
27 TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Türkiye, 14 - 17 Eylül 2010, ss.458
- LV. **The Investigation of Photo Dissociation by Time Dependent Quantum Method**
KURBAN M., KARABULUT E., TUTUK R., GÖKTAŞ F.
26. ULUSLARARASI FİZİK KONGRESİ, Bodrum, Türkiye, 24 - 27 Eylül 2009, ss.317

Bilimsel Yayınlarda Hakemlikler

TRANSACTIONS ON ELECTRICAL AND ELECTRONIC MATERIALS, ESCI Kapsamındaki Dergi, Mart 2024
COMPUTATIONAL MATERIALS SCIENCE, SCI-E Kapsamındaki Dergi, Mart 2024
JOURNAL OF MOLECULAR STRUCTURE, SCI-E Kapsamındaki Dergi, Mart 2024
LETTERS IN ORGANIC CHEMISTRY, SCI-E Kapsamındaki Dergi, Şubat 2024
SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI-E Kapsamındaki Dergi, Şubat 2024
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, SCI-E Kapsamındaki Dergi, Şubat 2024
MATERIALS TODAY COMMUNICATIONS, SCI-E Kapsamındaki Dergi, Şubat 2024
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Şubat 2024
LETTERS IN ORGANIC CHEMISTRY, SCI-E Kapsamındaki Dergi, Şubat 2024
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Şubat 2024
Surfaces and Interfaces, SCI-E Kapsamındaki Dergi, Şubat 2024
JOURNAL OF MOLECULAR LIQUIDS, SCI-E Kapsamındaki Dergi, Ocak 2024
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Ocak 2024
PHYSICA B: CONDENSED MATTER, SCI-E Kapsamındaki Dergi, Ocak 2024

JOURNAL OF MATERIALS SCIENCE, SCI-E Kapsamındaki Dergi, Ocak 2024
CHEMISTRYOPEN, SCI-E Kapsamındaki Dergi, Ocak 2024
PHYSICA B: CONDENSED MATTER, SCI-E Kapsamındaki Dergi, Ocak 2024
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Aralık 2023
MOLECULAR SIMULATION, SCI-E Kapsamındaki Dergi, Aralık 2023
PLASMONICS, SCI-E Kapsamındaki Dergi, Aralık 2023
SILICON, SCI-E Kapsamındaki Dergi, Aralık 2023
MATERIALS CHEMISTRY AND PHYSICS, SCI-E Kapsamındaki Dergi, Aralık 2023
MATERIALS TODAY COMMUNICATIONS, SCI-E Kapsamındaki Dergi, Aralık 2023
GAZI UNIVERSITY JOURNAL OF SCIENCE, Hakemli Bilimsel Dergi, Aralık 2023
SOLID STATE COMMUNICATIONS, SCI-E Kapsamındaki Dergi, Kasım 2023
PHYSICA B: CONDENSED MATTER, SCI-E Kapsamındaki Dergi, Kasım 2023
MATERIALS CHEMISTRY AND PHYSICS, SCI-E Kapsamındaki Dergi, Kasım 2023
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Kasım 2023
DISCOVER NANO, SCI-E Kapsamındaki Dergi, Kasım 2023
CHEMICAL PHYSICS, SCI-E Kapsamındaki Dergi, Ekim 2023
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, SCI-E Kapsamındaki Dergi, Ekim 2023
INORGANIC CHEMISTRY COMMUNICATION, SCI-E Kapsamındaki Dergi, Ekim 2023
CHEMISTRYSELECT, SCI-E Kapsamındaki Dergi, Eylül 2023
OPTICAL AND QUANTUM ELECTRONICS, SCI-E Kapsamındaki Dergi, Eylül 2023
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI-E Kapsamındaki Dergi, Eylül 2023
INDOOR AIR, SCI-E Kapsamındaki Dergi, Eylül 2023
JOURNAL OF AFFECTIVE DISORDERS, SCI-E Kapsamındaki Dergi, Eylül 2023
TRANSACTIONS ON ELECTRICAL AND ELECTRONIC MATERIALS, ESCI Kapsamındaki Dergi, Ağustos 2023
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI-E Kapsamındaki Dergi, Ağustos 2023
BMC Chemistry, SCI-E Kapsamındaki Dergi, Ağustos 2023
JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY, SCI-E Kapsamındaki Dergi, Ağustos 2023
JOURNAL OF MOLECULAR STRUCTURE, SCI-E Kapsamındaki Dergi, Ağustos 2023
JOURNAL OF MOLECULAR STRUCTURE, SCI-E Kapsamındaki Dergi, Ağustos 2023
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Ağustos 2023
PHYSICA B: CONDENSED MATTER, SCI-E Kapsamındaki Dergi, Ağustos 2023
COMPUTATIONAL AND THEORETICAL CHEMISTRY, SCI-E Kapsamındaki Dergi, Temmuz 2023
MATERIALS TODAY COMMUNICATIONS, SCI-E Kapsamındaki Dergi, Temmuz 2023
JOURNAL OF MOLECULAR STRUCTURE, SCI-E Kapsamındaki Dergi, Haziran 2023
JOURNAL OF CLUSTER SCIENCE, SCI-E Kapsamındaki Dergi, Mayıs 2023
ARABIAN JOURNAL OF CHEMISTRY, SCI-E Kapsamındaki Dergi, Mayıs 2023
JOURNAL OF MOLECULAR STRUCTURE, SCI-E Kapsamındaki Dergi, Mayıs 2023
JOURNAL OF MOLECULAR STRUCTURE, SCI-E Kapsamındaki Dergi, Mayıs 2023
BIONANOSCIENCE, ESCI Kapsamındaki Dergi, Mayıs 2023
OPTICAL AND QUANTUM ELECTRONICS, SCI-E Kapsamındaki Dergi, Nisan 2023
Journal of Magnesium and Alloys, SCI-E Kapsamındaki Dergi, Mart 2023
INTERNATIONAL JOURNAL OF PHOTOENERGY, SCI-E Kapsamındaki Dergi, Mart 2023
JOURNAL OF MOLECULAR MODELING, SCI-E Kapsamındaki Dergi, Mart 2023
MATERIALS TODAY COMMUNICATIONS, SCI-E Kapsamındaki Dergi, Mart 2023
JOURNAL OF MOLECULAR MODELING, SCI-E Kapsamındaki Dergi, Mart 2023
SCIENTIFIC REPORTS, SCI-E Kapsamındaki Dergi, Mart 2023
MATERIALS AND DESIGN, SCI-E Kapsamındaki Dergi, Şubat 2023
PHYSICA SCRIPTA, SCI-E Kapsamındaki Dergi, Ocak 2023

Metrikler

Yayın: 130

Atıf (WoS): 854

Atıf (Scopus): 1121

H-İndeks (WoS): 18

H-İndeks (Scopus): 22