

## Doç. Dr. MUSTAFA KURBAN

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### 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

Doç. Dr., Ankara Üniversitesi, Sağlık Bilimleri Fakültesi, Ortez-Protez Bölümü, 2023 - Devam Ediyor

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

- Rational and green functionalization of B,N-C60 by DNA bases devised as incredible electron transport compounds for perovskite photovoltaic devices**  
Shariatnia Z., KURBAN M.  
Materials Today Communications, cilt.39, 2024 (SCI-Expanded)

- II. **Investigating the effect of Zn doping and temperature on the photoluminescence behaviour of CuLaSe<sub>2</sub> quantum dots**  
Çadırcı M., Elibol E., Demirci T., KURBAN M.  
Luminescence, cilt.39, sa.4, 2024 (SCI-Expanded)
- III. **Rational design of SnO<sub>2</sub> 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)
- IV. **Chelant-enhanced solution for wafer-scale synthesis of few-layer WS<sub>2</sub> films**  
Isarraraz M., Pena P., Sayyad M., Yang S., Li H., Akhavi A., Rashednia M., Shang R., Coley W., Cui Y., et al.  
MRS BULLETIN, cilt.48, sa.10, ss.1073-1085, 2023 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **Zinc oxide nanoclusters and their potential application as CH<sub>4</sub> and CO<sub>2</sub> 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)
- X. **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)
- XI. **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)
- XII. **A density functional theory study on favipiravir drug interaction with BN-doped C<sub>60</sub> heterofullerene**  
Muz I., GÖKTAŞ F., Kurban M.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.135, 2022 (SCI-Expanded)
- XIII. **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)
- XIV. **Building Machine Learning systems for multi-atoms structures: CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> perovskite nanoparticles**  
Kurban H., Kurban M.  
COMPUTATIONAL MATERIALS SCIENCE, cilt.195, 2021 (SCI-Expanded)
- XV. **Rare-class learning over Mg-doped ZnO nanoparticles**  
Kurban H., Kurban M.

- CHEMICAL PHYSICS, cilt.546, 2021 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **Tailoring the structural properties and electronic structure of anatase, brookite and rutile phase TiO<sub>2</sub> nanoparticles: DFTB calculations**  
Kurban H., Dalkilic M., TEMİZ S., Kurban M.  
COMPUTATIONAL MATERIALS SCIENCE, cilt.183, 2020 (SCI-Expanded)
- XXIV. **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)
- XXV. **Theoretical investigation of the adsorption behaviors of fluorouracil as an anticancer drug on pristine and B-, Al-, Ga-doped C<sub>36</sub> nanotube**  
Kurban M., Muz I.  
JOURNAL OF MOLECULAR LIQUIDS, cilt.309, 2020 (SCI-Expanded)
- XXVI. **Evaluation of electronic transport and optical response of two-dimensional Fe-doped TiO<sub>2</sub> thin films for photodetector applications**  
Kara F., Kurban M., Coskun B.  
OPTIK, cilt.210, 2020 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)

- XXX. **Suppression of the Shuttle Effect in Li-S Batteries via Magnetron Sputtered TiO<sub>2</sub> 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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **A study of structural phase transitions and optoelectronic properties of perovskite-type hydride MgFeH<sub>3</sub>: ab initio calculations**  
Kurban M., Kurkcu C., Yamcicler C., GÖKTAŞ F.  
JOURNAL OF PHYSICS-CONDENSED MATTER, cilt.31, sa.30, 2019 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **Structural evolution and electronic properties of CaS: An ab initio study**  
Kurkcu C., Yamcicler C., Kurban M.  
SOLID STATE SCIENCES, cilt.90, ss.14-20, 2019 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **Electronic structure, elastic and phonon properties of perovskite-type hydrides MgXH<sub>3</sub> (X = Fe, Co) for hydrogen storage**  
Candan A., Kurban M.  
SOLID STATE COMMUNICATIONS, cilt.281, ss.38-43, 2018 (SCI-Expanded)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **Microstructural properties and local atomic structures of cobalt oxide nanoparticles synthesised by mechanical ball-milling process**  
Akgul F. A., Akgul G., Kurban M.  
PHILOSOPHICAL MAGAZINE, cilt.96, sa.30, ss.3211-3226, 2016 (SCI-Expanded)
- LIV. **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)
- LV. **Structural and Electronic Properties of ZnmCdn,Te-k (m plus n plus 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)

- LVI. **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)
- LVII. **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  $ZnxCd_{1-x}Te_{0.25}O_{0.50}$  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)

## **Kitap & Kitap Bölümleri**

- 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 Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 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 TiO<sub>2</sub> 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 C<sub>30</sub>B<sub>15</sub>N<sub>15</sub> 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 ZrO<sub>2</sub> 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**  
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- XXX. **A theoretical study of solvent effects on 2-acetoxybenzoic acid molecule**  
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- XXXI. **Experimental and Theoretical Study on the Electronic and Optoelectronic Properties of 5,5'-Dibromo-2,2'-bithiophene Organic Material for Photovoltaic Application**  
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Yayın: 123

Atıf (WoS): 836

Atıf (Scopus): 892

H-İndeks (WoS): 18

H-İndeks (Scopus): 18