

Assoc. Prof. MUSTAFA KURBAN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-8494-2019

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Biography

Mustafa Kurban is an Associate Professor in the Department of Prosthetics & Orthotics at [Ankara University](#). He earned his Ph.D. in Physics from [Middle East Technical University](#) in 2016 and pursued a postdoctoral position in Materials Science & Engineering at the [University of California, Riverside](#), from 2018 to 2019. His diverse research portfolio encompasses energy storage, sensors, bulk heterojunction solar cells, the application of machine learning in materials science, optics, drug delivery systems, nanomaterials, 2D materials, organic molecules, and crystal structures.

Education Information

Post Doctorate, University of California, Riverside, Materials Science & Engineering, United States Of America 2018 - 2019

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 2010 - 2016

Research Areas

Health Sciences, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Ankara University, Sağlık Bilimleri Fakültesi, Ortez-Protez Bölümü, 2023 - Continues

Associate Professor, Kirşehir Ahi Evran University, Faculty of Engineering and Architecture, Electrical - electronics Engineering, 2020 - 2023

Assistant Professor, Kirşehir Ahi Evran University, Vocational School of Technical Sciences, Department of Electronics and Automation, 2017 - 2020

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2010 - 2016

Academic and Administrative Experience

Manager of Research and Application Center, Kırşehir Ahi Evran University, 2019 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, vol.39, no.4, 2024 (SCI-Expanded)
- II. **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, vol.597, 2024 (SCI-Expanded)
- III. **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, vol.48, no.10, pp.1073-1085, 2023 (SCI-Expanded)
- IV. **Sulfur doping concentration effect on the electronic and structural properties of ZnO nanoparticles: Insights from DFTB calculations**
Kurban M.
COMPUTATIONAL AND THEORETICAL CHEMISTRY, vol.1224, 2023 (SCI-Expanded)
- V. **Size-dependent adsorption performance of ZnO nanoclusters for drug delivery applications**
Kurban M., Muz I.
STRUCTURAL CHEMISTRY, vol.34, no.3, pp.1061-1071, 2023 (SCI-Expanded)
- VI. **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, vol.58, 2023 (SCI-Expanded)
- VII. **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, vol.47, no.2, pp.812-827, 2023 (SCI-Expanded)
- VIII. **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, vol.43, no.27, pp.1839-1847, 2022 (SCI-Expanded)
- IX. **Rapidly predicting Kohn-Sham total energy using data-centric AI**
Kurban H., Kurban M., Dalkılıç M. M.
SCIENTIFIC REPORTS, vol.12, no.1, 2022 (SCI-Expanded)
- X. **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., El Khattabi S., Benzakour M., Mcharfi M., Kurban M.
PHYSICA B-CONDENSED MATTER, vol.636, 2022 (SCI-Expanded)
- XI. **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, vol.135, 2022 (SCI-Expanded)
- XII. **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, vol.335, 2021 (SCI-Expanded)
- XIII. **Building Machine Learning systems for multi-atoms structures: CH₃NH₃PbI₃ perovskite nanoparticles**
Kurban H., Kurban M.
COMPUTATIONAL MATERIALS SCIENCE, vol.195, 2021 (SCI-Expanded)
- XIV. **Rare-class learning over Mg-doped ZnO nanoparticles**
Kurban H., Kurban M.
CHEMICAL PHYSICS, vol.546, 2021 (SCI-Expanded)
- XV. **Sensing capability and diameter-dependent electronic structure of boron nitride nanotubes**
Muz I., Alaei S., Kurban M.
MATERIALS TODAY COMMUNICATIONS, vol.27, 2021 (SCI-Expanded)
- XVI. **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, vol.560, 2021 (SCI-Expanded)
- XVII. **A DFT study on stability and electronic structure of AlN nanotubes**
Muz I., Kurban H., Kurban M.
MATERIALS TODAY COMMUNICATIONS, vol.26, 2021 (SCI-Expanded)
- XVIII. **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, vol.186, 2021 (SCI-Expanded)
- XIX. **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, vol.846, 2020 (SCI-Expanded)
- XX. **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, vol.539, 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, vol.842, 2020 (SCI-Expanded)
- XXII. **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, vol.183, 2020 (SCI-Expanded)
- XXIII. **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, vol.19, no.3, pp.895-904, 2020 (SCI-Expanded)
- XXIV. **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, vol.309, 2020 (SCI-Expanded)
- XXV. **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, vol.210, 2020 (SCI-Expanded)
- XXVI. **Electronic Transport and Non-linear Optical Properties of Hexathiopentacene (HTP) Nanorings: A DFT Study**

- Muz I., Kurban M.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.5, pp.3282-3289, 2020 (SCI-Expanded)
- XXVII. **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, vol.26, no.6, 2020 (SCI-Expanded)
- XXVIII. **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, vol.139, no.2, 2020 (SCI-Expanded)
- XXIX. **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, vol.3, no.2, pp.1515-1529, 2020 (SCI-Expanded)
- XXX. **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, vol.33, no.31, 2019 (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, vol.21, 2019 (SCI-Expanded)
- XXXII. **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, vol.802, pp.25-35, 2019 (SCI-Expanded)
- XXXIII. **A study of structural phase transitions and optoelectronic properties of perovskite-type hydride MgFeH₃: ab initio calculations**
Kurban M., Kurkcu C., Yamcicier C., GÖKTAŞ F.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.31, no.30, 2019 (SCI-Expanded)
- XXXIV. **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, vol.27, no.2, pp.113-118, 2019 (SCI-Expanded)
- XXXV. **Tunable electronic structure and structural transition of GaAs clusters at high pressure and temperature**
Kurban M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.791, pp.1159-1166, 2019 (SCI-Expanded)
- XXXVI. **Experimental and theoretical studies of the structural, electronic and optical properties of BCzVB organic material**
Kurban M., Gunduz B., GÖKTAŞ F.
OPTIK, vol.182, pp.611-617, 2019 (SCI-Expanded)
- XXXVII. **Structural evolution and electronic properties of CaS: An ab initio study**
Kurkcu C., Yamcicier C., Kurban M.
SOLID STATE SCIENCES, vol.90, pp.14-20, 2019 (SCI-Expanded)
- XXXVIII. **Photophysical, spectroscopic properties and electronic structure of BND: Experiment and theory**
Sas E. B., Kurban M., Gunduz B., Kurt M.
SYNTHETIC METALS, vol.246, pp.39-44, 2018 (SCI-Expanded)
- XXXIX. **Photophysical and optical properties of 5-Bromo-2-nitropyridine organic molecule: Experiment and theory**
Gunduz B., Kurban M.

- OPTICAL MATERIALS, vol.85, pp.373-381, 2018 (SCI-Expanded)
- XL. **Electronic structure, elastic and phonon properties of perovskite-type hydrides MgXH₃ (X = Fe, Co) for hydrogen storage**
Candan A., Kurban M.
SOLID STATE COMMUNICATIONS, vol.281, pp.38-43, 2018 (SCI-Expanded)
- XLI. **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, vol.3, no.21, pp.5934-5940, 2018 (SCI-Expanded)
- XLII. **Photonic, spectroscopic properties and electronic structure of PTCDI-C8 organic nanostructure**
Gunduz B., Kurban M.
VIBRATIONAL SPECTROSCOPY, vol.96, pp.46-51, 2018 (SCI-Expanded)
- XLIII. **Ab initio study of structural and electronic properties of Si_nC_{5-n}H₈ (n=0-5) series: Probing the 2D to 3D structural transition**
Muz I., Kurban M.
INORGANICA CHIMICA ACTA, vol.477, pp.318-325, 2018 (SCI-Expanded)
- XLIV. **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, vol.474, pp.66-72, 2018 (SCI-Expanded)
- XLV. **The structural, electronic and spectroscopic properties of 4FPBAPE molecule: Experimental and theoretical study**
Tanus E., Sas E. B., Kurban M., Kurt M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1154, pp.301-318, 2018 (SCI-Expanded)
- XLVI. **Electronic structure, optical and structural properties of Si, Ni, B and N-doped a carbon nanotube: DFT study**
Kurban M.
OPTIK, vol.172, pp.295-301, 2018 (SCI-Expanded)
- XLVII. **Electronic structure, optical and structural properties of organic 5,5 '-Dibromo-2,2 '-bithiophene**
Kurban M., Gunduz B.
OPTIK, vol.165, pp.370-379, 2018 (SCI-Expanded)
- XLVIII. **Study of structural, optical properties and electronic structure of PTCDI-C5 organic nanostructure**
Kurban M., Gunduz B.
CHEMICAL PHYSICS LETTERS, vol.691, pp.14-21, 2018 (SCI-Expanded)
- XLIX. **Physical and optical properties of DCJTb dye for OLED display applications: Experimental and theoretical investigation**
Kurban M., Gunduz B.
JOURNAL OF MOLECULAR STRUCTURE, vol.1137, pp.403-411, 2017 (SCI-Expanded)
- L. **Segregation formation, thermal and electronic properties of ternary cubic CdZnTe clusters: MD simulations and DFT calculations**
Kurban M., Erkoc S.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.88, pp.243-251, 2017 (SCI-Expanded)
- LI. **Mechanical properties of CdZnTe nanowires under uniaxial stretching and compression: A molecular dynamics simulation study**
Kurban M., Erkoc S.
COMPUTATIONAL MATERIALS SCIENCE, vol.122, pp.295-300, 2016 (SCI-Expanded)
- LII. **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, vol.96, no.30, pp.3211-3226, 2016 (SCI-Expanded)
- LIII. **Structural and thermal properties of Cd-Zn-Te ternary nanoparticles: Molecular-dynamics**

simulations

Kurban M., MALCIOĞLU O. B., Erkoc S.

CHEMICAL PHYSICS, vol.464, pp.40-45, 2016 (SCI-Expanded)

- LIV. **Structural and Electronic Properties of ZnmCdn,Te-k (m plus n plus k=2-4) Clusters: DFT Calculations**

Kurban M., Erkoc S.

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, vol.12, no.9, pp.2605-2615, 2015 (SCI-Expanded)

- LV. **Quantum dynamics of H(S-2) + FO((2)Pi) -> HF((1)Sigma(+)) + O(P-3) reaction on the 1(3)A' state**

Kurban M., GÖKTAŞ F., Karabulut E., Tutuk R.

MOLECULAR PHYSICS, vol.109, no.5, pp.789-795, 2011 (SCI-Expanded)

- LVI. **Time-Dependent Quantum Study of H(S-2)+FO((2)Pi) -> 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, vol.31, no.14, pp.2607-2611, 2010 (SCI-Expanded)

Articles Published in Other Journals

- 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, vol.3, pp.35-39, 2019 (Peer-Reviewed Journal)

- 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, vol.3, pp.40-44, 2019 (Peer-Reviewed Journal)

- III. **Study of Structural and Optoelectronic Properties of Hexagonal ZnO Nanoparticles**

KURBAN H., Kurban M.

Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.6, no.2, pp.243-250, 2019 (Peer-Reviewed Journal)

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

KURBAN M.

Eskişehir Technical University Journal of Science and Technology A- Applied Sciences and Engineering, vol.19, no.3, pp.620-627, 2018 (Peer-Reviewed Journal)

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

Kurban M.

TURKISH JOURNAL OF PHYSICS, vol.42, no.4, pp.443-454, 2018 (ESCI)

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

KURBAN M., ŞAKŞIR E.

Quantum Matter, vol.5, no.4, pp.602-606, 2016 (Peer-Reviewed Journal)

- VII. **Structural properties of ZnxCd1-xTe x 0.25 0.50 and 0.75 ternary nanorods Molecular Dynamics Simulations**

KURBAN M., ERKOÇ S.

Research and Reviews: Journal of Pure and Applied Physics, vol.1, no.4, pp.35-42, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

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

- KURBAN M., MALCIOĞLU O. B., Erkoç Ş.
in: Handbook of II-VI Semiconductor-Based Sensors and Radiation Detectors, Ghenadii Korotcenkov, Editor,
Springer, Cham, Cham, pp.87-106, 2023
- II. **II-VI Semiconductors Bandgap Engineering**
KURBAN M., ŞİMŞEK Y., Erkoç Ş.
in: Handbook of II-VI Semiconductor-Based Sensors and Radiation Detectors, Ghenadii Korotcenkov, Editor,
Springer, Cham, cham, pp.109-131, 2023

Refereed Congress / Symposium Publications in Proceedings

- 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, Algeria, 12 December 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, Turkey, 23 November 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, Singapore, 4 - 06 September 2020, vol.880, pp.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, Turkey, 22 - 24 September 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, Turkey, 22 - 24 September 2020
- VI. **INVESTIGATION OF ELECTRONIC STRUCTURE AND THERMALPROPERTIES OF NANO-SATURN FOR FUNCTIONAL MATERIALS**
KURBAN M.
ADIM PHYSICS DAYS VIII, 12 - 15 August 2019, pp.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, Turkey, 16 - 18 December 2019, pp.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, Turkey, 9 - 10 September 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 August 2019, pp.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, Serbia, 26 - 30 August 2019, pp.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, Turkey, 9 - 10 September 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 September 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, Turkey, 21 - 23 June 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, Turkey, 25 - 27 June 2019
- XV. **Predicting Chemical Bioavailability of Fluxoastrobin 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, Turkey, 21 - 23 September 2018, pp.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, Turkey, 21 - 23 September 2018, pp.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, Turkey, 21 - 23 September 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, Turkey, 21 - 23 September 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, Turkey, 19 - 21 June 2018, pp.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, Turkey, 19 - 21 June 2018, pp.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, Ukraine, 2 - 06 May 2018
- XXII. **Unusual structural phase transition properties of GaAs Clusters under pressure**
KURBAN M., KÜRKÇÜ C.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018, pp.509
- XXIII. **2D-3D STRUCTURAL TRANSITION IN Si_nC_{5-n}H₈ (n=0-5) SERIES**

- MUZ İ., KURBAN M.
International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), 11 - 13 October 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 October 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 October 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 October 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 October 2017
- XXVIII. **Molecular Dynamics Simulation of Cu₅₅ Magic Cluster on the Graphene Monolayer**
KURBAN M., Erkoç S.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIALS SCIENCE, 11 - 15 October 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, Turkey, 26 - 29 August 2017, pp.108
- XXX. **A theoretical study of solvent effects on 2-acetoxybenzoic acid molecule**
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