CURRICULUM VITAE

Personal Data

Name. Muneerah Mogren Abdulaziz Al-Mogren

Nationality: Saudi ,Languages: Arabic and English

Contact Information

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Saudi Arabia Email mmogren@ksu.edu.sa

Work Experience

2003- 2007: lecture,

2008- Assistant Professor of Quantum Chemistry Chemistry Science Department, College of Sciences, King Saud University. Riyadh, Saudi Arabia

2015- Associate Professor of Quantum Chemistry Chemistry Science Department, College of Sciences, King Saud University. Riyadh, Saudi Arabia

Academic Qualifications

Assistant Professor of Quantum Chemistry

In Chemistry Science, Quantum chemistry King Saud University, KSA.

Title of Ph.D. Dissertation: " Structural and Stability of Some Carbon and Silicon Clusters: an ab initio study 2008

1998 M.Sc. Chemistry Science, Quantum chemistry King Saud University, KSA. Title of M.Sc. Thesis: "Calculations of Molecular Properties of Some Pyrimidine and Purine Derivatives Using X-ray Results and MO Methods ".

1990 B.Sc. Chemistry Science, College of Sciences,

SKILLS

In quantum Computer programs

Foreign Languages:

English (Toefl)

TRAININGS/ SEMINARS

Workshop on Nanotechnologies and Applications

In KACST and KSUand E-learning and distance learning

Publications

Title	Cited by	Year
Theoretical spectroscopic investigations of HNSq and HSNq (q= 0,+ 1,− 1) in the gas phase SB Yaghlane, NE Jaidane, CE Cotton, JS Francisco, MM Al Mogren, ... The Journal of chemical physics 140 (24), 244309	11	2014
Synthesis, spectroscopic, molecular orbital calculation, cytotoxic, molecular docking of DNA binding and DNA cleavage studies of transition metal complexes with N-benzylidene-N′-salicylidene-1, 1-diaminopropane MM Al-Mogren, ANMA Alaghaz, EA Ebrahem Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 114, 695-707	9	2013
On the use of explicitly correlated treatment methods for the generation of accurate polyatomic–He/H2 interaction potential energy surfaces: The case of C3–He complex and generalization	8	2014

Title	Cited by	Year
MM Al Mogren, O Denis-Alpizar, DB Abdallah, T Stoecklin, P Halvick, ... The Journal of chemical physics 141 (4), 044308		
Accurate spectroscopic characterization of ethyl mercaptan and dimethyl sulfide isotopologues: A route toward their astrophysical detection C Puzzarini, ML Senent, R Domínguez-Gómez, M Carvajal, M Hochlaf, ... The Astrophysical Journal 796 (1), 50	7	2014
A G3 Study of the Structure of Carbon− Nitrogen Nanoclusters MMA Mogren, AA El-Azhary, WZ Alkiali, M Hochlaf The Journal of Physical Chemistry A 114 (46), 12258-12268	6	2010
Characterization and reactivity of the weakly bound complexes of the [H, N, S]− anionic system with astrophysical and biological implications T Trabelsi, Y Ajili, SB Yaghlane, NE Jaidane, MM Al-Mogren, ... The Journal of chemical physics 143 (3), 034303	5	2015
Vibrationally Resolved Photoelectron Spectroscopy of Electronic Excited States of DNA Bases: Application to the Ã State of Thymine Cation M Hochlaf, Y Pan, KC Lau, Y Majdi, L Poisson, GA Garcia, L Nahon, ... The Journal of Physical Chemistry A 119 (7), 1146-1153	5	2015
Characterization of Zn q+–imidazole (q= 0, 1, 2) organometallic complexes: DFT methods vs. standard and explicitly correlated post-Hartree–Fock methods K Boussouf, R Boulmene, M Prakash, N Komiha, M Taleb, MM Al-Mogren, ... Physical Chemistry Chemical Physics 17 (22), 14417-14426	5	2015
Theoretical and experimental photoelectron spectroscopy characterization of the ground state of thymine cation Y Majdi, M Hochlaf, Y Pan, KC Lau, L Poisson, GA Garcia, L Nahon, ... The Journal of Physical Chemistry A 119 (23), 5951-5958	4	2015
Theoretical studies of 2-quinolinol: Geometries, vibrational frequencies, isomerization, tautomerism, and excited states Y Pan, KC Lau, MM Al-Mogren, A Mahjoub, M Hochlaf Chemical Physics Letters 613, 29-33	4	2014

Title	Cited by	Year
Synthesis, Spectral and Quantum Chemical Calculations of Mononuclear Nickel (II), Copper (II) and Cadmium (II) Complexes of New Schiff–Base Ligand MM Al-Mogren, ANMA Alaghaz Int. J. Electrochem. Sci 8, 8669-8685	4	2013
On the role of HNS and HSN as light-sensitive NO-donors for delivery in biological media T Trabelsi, R Linguerri, SB Yaghlane, NE Jaidane, MM Al-Mogren, ... The Journal of chemical physics 143 (13), 134301	3	2015
Experimental and quantum chemical studies of the electronic absorption spectra of pyrimidine derivatives M Mogren, K Al-Farhan, AA Hasanein Journal of Saudi Chemical Society 17 (1), 87-95	3	2013
pH-Metric Studies of Acid-Base Equilibria on the mixed Cu (II) Complexes with Pyrazine-2, 3-Dicarboxylic Acid and Amino Acids RA Ammar, A Nafady, MF Amin, MM Al-Mogren, EM Shoukry Int. J. Electrochem. Sci 8, 1501-1510	3	2013
VUV photoionization and dissociative photoionization spectroscopy of the interstellar molecule aminoacetonitrile: Theory and experiment A Bellili, M Schwell, Y Bénilan, N Fray, MC Gazeau, MM Al-Mogren, ... Journal of Molecular Spectroscopy 315, 196-205	2	2015
VUV photoionization and dissociative photoionization of the prebiotic molecule acetyl cyanide: Theory and experiment A Bellili, M Schwell, Y Bénilan, N Fray, MC Gazeau, MM Al-Mogren, ... The Journal of chemical physics 141 (13), 134311	2	2014
Theoretical investigations of the IO, q+ (q= 2, 3, 4) multi-charged ions: Metastability, characterization and spectroscopy H Hammami, O Yazidi, MBEH Rhouma, MM Al Mogren, M Hochlaf The Journal of chemical physics 141 (1), 014302	2	2014
Theoretical characterization of C7, C7−, and C7+ MM Al-Mogren, ML Senent, M Hochlaf The Journal of chemical physics 139 (6), 064301	2	2013

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SPECTROSCOPIC CONSTANTS OF THE X1Σ+ AND 13Π STATES OF AlO+ O Sghaier, R Linguerri, MM Al Mogren, JS Francisco, M Hochlaf The Astrophysical Journal 826 (2), 163	1	2016
Electronic, structural and vibrational induced effects upon ionization of 2-quinolinone A Bellili, Y Pan, MM Al Mogren, KC Lau, M Hochlaf Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 164, 1-7	1	2016
Toward the laboratory identification of [O, N, S, S] isomers: Implications for biological NO chemistry T Ayari, NE Jaidane, MM Al Mogren, JS Francisco, M Hochlaf The Journal of Chemical Physics 144 (23), 234316	1	2016
Rotational (de-) excitation of HNS by He: three-dimensional potential energy surface and collision rate coefficients Y Ajili, DB Abdallah, MM Al-Mogren, JS Francisco, M Hochlaf Monthly Notices of the Royal Astronomical Society 458 (2), 1581-1589	1	2016
Structure, Reactivity, and Fragmentation of Small Multi-Charged Methane Clusters AS Zaag, O Yazidi, NE Jaidane, MW Ross, AW Castleman Jr, ... The Journal of Physical Chemistry A 120 (10), 1669-1676	1	2016
Theoretical characterization of vanadyl and VO 3+ cations in gas phase S Almenia, MM Al Mogren, DB Abdallah, R Linguerri, M Hochlaf Chemical Physics Letters 646, 142-147	1	2016
Role of size and shape selectivity in interaction between gold nanoclusters and imidazole: a theoretical study M Prakash, G Chambaud, MM Al-Mogren, M Hochlaf Journal of molecular modeling 20 (12), 1-14	1	2014
Spectral and quantum chemical studies on 1, 3-bis (N 1-4-amino-6-methoxypyrimidinebenzenesulfonamide-2, 2, 4, 4-ethane-1, 2-dithiol)-2, 4-dichlorocyclodiphosph (V) azane and its erbium complex MM Al-Mogren, ANMA Alaghaz, TM El-Gogary Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 118, 481-487	1	2014

Title	Cited by	Year
Synthesis, spectroscopic, thermal and quantum chemical studies on trivalent erbium NO chelating sulfamonomethoxine–cyclophosph (V) azane complex MM Al-Mogren, ANMA Alaghaz, TM El-Gogary, SAH Albohy Journal of Molecular Structure 1048, 202-209	1	2013
Theoretical investigation of the long-lived metastable AlO 2+ dication in gas phase O Sghaier, HH Abdallah, HY Abdullah, NE Jaidane, MM Al Mogren, ... Chemical Physics 477, 32-38	-	2016
HNS+ and HSN+ cations: Electronic states, spin-rovibronic spectroscopy with planetary and biological implications T Trabelsi, SB Yaghlane, MM Al Mogren, JS Francisco, M Hochlaf The Journal of Chemical Physics 145 (8), 084307	-	2016
Explicitly correlated three-dimensional potential-energy surface of the thiazyl-hydride–helium weakly bound system and implications for HSN detection Y Ajili, DB Abdallah, MM Al-Mogren, F Lique, JS Francisco, M Hochlaf Physical Review A 94 (1), 012512	-	2016
First principle investigations of organobismuth palladium-catalyzed C–C coupling reaction: mechanism, chemoselectivity and solvent effects P Kutudila, R Linguerri, MM Al-Mogren, C Pichon, S Condon, M Hochlaf Theoretical Chemistry Accounts 135 (7), 1-10	-	2016
Vibrational memory in quantum localized states Y Ajili, T Trabelsi, O Denis-Alpizar, T Stoecklin, AG Császár, ... Physical Review A 93 (5), 052514	-	2016
Ab Initio and DFT Studies on CO2 Interacting with Znq+–Imidazole (q= 0, 1, 2) Complexes: Prediction of Charge Transfer through σ-or π-Type Models R Boulmene, K Boussouf, M Prakash, N Komiha, MM Al-Mogren, ... ChemPhysChem	-	2016
Collisional excitation of MgO by He MM Al Mogren, Y Ajili, S Almania, DB Abdallah, M Hochlaf Monthly Notices of the Royal Astronomical Society 452 (2), 1561-1566	-	2015

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Structure, stability, energy barrier and ionization energies of chemically modified DNA-bases: Quantum chemical calculations on 37 favored and rare tautomeric forms of tetraphosphoadenine MM Al-Mogren, TM El-Gogary Computational and Theoretical Chemistry 1052, 35-41	-	2015
Ab initio treatment of gas phase GeO 2+ doubly charged ion MM Al Mogren, DB Abdallah, M Hochlaf Chemical Physics 446, 13-17	-	2015
Understanding of matrix embedding: a theoretical spectroscopic study of CO interacting with Ar clusters, surfaces and matrices K Mahjoubi, DM Benoit, NE Jaidane, MM Al-Mogren, M Hochlaf Physical Chemistry Chemical Physics 17 (26), 17159-17168	-	2015
State-to-state vacuum ultraviolet photodissociation study of CO 2 on the formation of state-correlated CO (X 1 Σ+; v) with O (1 D) and O (1 S) photoproducts at 11.95–12.22 eV Z Lu, YC Chang, Y Benitez, Z Luo, AB Houria, T Ayari, MM Al Mogren, ... Physical Chemistry Chemical Physics 17 (17), 11752-11762	-	2015
Substituent effects on vibrational and electronic excitation spectra of pyridone tautomers and ions: The case of the cyano group MB Messaouda, A Mahjoub, MM Al-Mogren, M Abderrabba, M Hochlaf Journal of Molecular Structure 1074, 422-428	-	2014
Characterization of gas phase WC 2+: a thermodynamically stable carbide dication S Sabor, AT Benjelloun, MM Al Mogren, M Hochlaf Physical Chemistry Chemical Physics 16 (39), 21356-21362	-	2014
Synthesis, Spectral and Quantum Chemical Calculations of Mononuclear Nickel (II), Copper (II) and Cadmium (II) Complexes of New Schiff-Base Ligand MM Al-Mogren, AN Alaghaz INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE 8 (6), 8669-8685	-	2013
Electronic structure and properties of neutral, anionic and cationic silicon–nitrogen nanoclusters MM Al Mogren, AA El-Azhary, WZ Alkiali, M Hochlaf Journal of molecular modeling 19 (6), 2657-2668	-	2013

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Synthesis, Spectral Characterization and Quantum Chemical Calculations on Pyridine Cyclodiphosph (V) Azane Derivative and Its Cu (II) Complex MM Al-Mogren, ANMAA Alaghaz Int. J. Electrochem. Sci 8, 6951-6971	-	2013

Scientific Conferences

"***XXI edition of the European Conference on the Dynamics of Molecular Systems***" (MOLEC 2016), that Celebrated between the **11th to 16th September 2016.**

"*Anharmonicity in medium-sized molecules and clusters*" (AMOC 2015), that Celebrated between the **26-30 of April of 2015**.

The poster is

"*Structure,properties and energetics of carbon-nitrogen and silicon-nitrogen nanoclusters: acomparative study*"

M. M. Al-Mogren, A. A. El-Azhary and W. Z. Alkiali, Majdi Hochlaf "A G3 study of the structure of Carbon-Nitrogen C_mN_n (m = 1–4, n = 1–4, $m + n$ = 5) Nanoclusters", J. Phys. Chem. A, 12258, 114, 2010.

M. M. Al-Mogren, A. A. EI-Azhary, Majdi HochlafA. A. AlWarthan and K. A. M. AI-Farhan, A G3 study of the Carbon-Silicon Si_nC_m (n = 0–4, m = 0–4, $n + m$ = 4) Nanoclusters, CHEM. 4, Cairo University, Giza, Egypt, 3–6 Mar., 2008.

Muneerah M. Al-Mogren, Adel A. El-Azhary, Wad Kealie , Majdi Hochlaf, Khalid A. M. AI-Farhan, A G3 study of the Carbon-Nitrogen C_nN_m (n = 1–4, m = 1–4, $n + m$ = 5) Nanoclusters, The International Conference on Nanotechnology (ICON008), Jeddah, Saudi Arabia, 17 – 19 June, 2008.

Muneerah M. Al-Mogren, Adel El-Azhary and Wad Kealie,Majdi Hochlaf, A G3 study of the structure of carbon-nitrogen (n = 1–4, m = 1–4, $n + m$ = 5) anion nanoclusters, Taibah International Chemistry Conference, 2009, 23-25 March, 2009.

Muneerah M. Al Mogren, Adel A. El-Azhary, Wad. Z. Alkiali, and Majdi Hochlaf, A G3 study of the structure of Carbon-Nitrogen Nanoclusters, The Third International Syrian Chemical Conference in Chemsitry, Aleppo, Syria, 2010, 27-29 Oct., 2010.