Curriculum Vitae

Mohsen Oftadeh

Present Occupation Nationality Correspondence Address

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Educational Qualification

Degree	University	Year
B.Sc.	Isfehan University	199.
(Pure Chemistry)	(Isfehan, Iran)	
M.Sc.	Isfahan University	1997
(Physical Chemistry)	(Isfahan, Iran)	1.4.4.1
Ph.D.	Shiraz University	1997
(Quantum Chemistry)	(Shiraz, Iran)	

Teaching Experience (1999-7.17)

Taught the following graduate and undergraduate courses:

General Chemistry, Physical Chemistry, Physical Chemistry Lab., Advanced Physical Chemistry, Quantum Chemistry, Molecular Spectroscopy, Organic Physical Chemistry, Computer Programming, Mathematical Methods in Physical Chemistry.

Research Experience

Quantum Calculations, Explosives, Propellants.

Name

The Title of the MSC Dissertation (1997)

The Investigation of the High Pressures on the Displacement of the Radial Distribution of The Hydrogen Atom in Ground State

The Title of the PhD Dissertation (199٨)

First and Second Analytical Derivatives of Molecular Integrals for Calculations of Energy Using Spherical Gaussian & Application of Simplified PV-RR Procedure for H_Y and LiH Molecules & Lone Pair Description in FSGO Method for Some Cyclic Carbenes.

List of the Publications (1997-7.11)

- A. H. Pakyari and M. Oftadeh, "First Derivative of Molecular Integrals for Electronic Energy Using Spherical Gaussian Type Orbitals", J. Molecular Structure (THEOCHEM), "^A9,(¹⁹⁹).
- A. H. Pakyari and M. Oftadeh, "Analytical Second Derivatives of Molecular Integrals Obtained by Spherical Gauusian Orbital", J. Molecular Structure (THEOCHEM), ٤٣٠, (١٩٩٨).
- ^{*}. M. H. Keshavarz and M. Oftadeh, "A New Correlation for Predicting the C-J Pressure of CHNO Explosive", *High Temperature-High Pressure*, ^{**}ξ, ^ξ9° (^{*}··^{*}).
- M. H. Keshavarz and M. Oftadeh, "Two New Correlations for Predicting Detonation Power of CHNO Explosives", Bull. Korean Chem. Soc., Υ ± (1), 19 (Υ • • Ψ).
- M. H. Keshavarz and M. Oftadeh, "New Estimated Method for Heat of Formation of CHNO Explosives in Solid State", *High Temperature-High Pressure*, ٤٦ (٢٠٠٤).
- M. H. Keshavarz and M. Oftadeh, "Simple Method of Predicting Detonation Pressure of CHNO Mixed Explosives", Indian J. Eng. Mater. Sci., 1. (1.17)
- M. H. Keshavarz and M. Oftadeh, "Performance Study of Energetic Compound ^Υ, ^ε, [¬]-Trinitro-^γ, [°], [°]-Triazine", *Asian J. Chem.*, ^γ(^Υ) (^Υ··[°])
- M. H. Keshavarz and M. Oftadeh, "Performance Study of \,\-Dimethyl-Y-Cyanoethylhydrazine as Liquid Propellant", Theory and Practice of Energetic Materials, ° (Y··Y).
- M. H. Keshavarz and M. Oftadeh, "New Method for Predicting of C-J Detonation Velocity of CHNO Explosives at Any Loading Density", *Theory and Practice of Energetic Materials*, ° (^Υ··^Υ).
- M. Salavati Niasari, S. Abdolmohammadi and M. Oftadeh, "Host (Nanopores of Zeolite-Y)/Guest (Co(II)-Azamacrocycllic Complexes) Nanocomposite Materials: Synthesis,

Characterization and Catalytic Epoxidation of Styrene with Molecular Oxygen", J. Coord. Chem., $\gamma\gamma(\gamma\gamma)$, $\gamma\wedge\gamma\gamma$, $\gamma\cdot\cdot\wedge$.

- A. Semnani, H. R. Pouretedal, M. F. keshavarz, A. R. Firooz and M. Oftadeh, "Interaction Between ¹, ^π, ^ο-Trithiane and Iodine Monobrobide in Halomethane Solutions", *Heterocyclic Commu.*, ¹ ^ε(^π), ^τ • ^τ, ^τ • • ^λ.
- Y. M. Oftadeh, M. Salavati Niasari and F. Davar, "Synthesis of ZnO Nanoparticles and Their Optical Properties", Int. J. Nanoparticles, Y, T.Y. Y.
- ۲۳. M. Oftadeh, M. Salavati Niasari and F. Davar, "Sized-Controlled ZnO Nanoparticles, Synthesis and Morphology", Int. J. Nanoscience, ۳, ۲۷۷, ۲۰۰۹.
- 14. A. Semnani, A.R. Firooz, H.R. Pouretdal, M.H. Keshavarz and M. Oftadeh, "Complex Formation Between Some Thiacrownethers and ¹,⁷,^o-Trithian with Bromine in Gas Phase and Carbon Tetrachloride Solution", *Chemistry*, ¹9, ^A•, ⁷•¹•.
- No. Mohsen Oftadeh, Masoud Hamadanian Khozani, Mahshid Radhoosh, Mohammad Hossein Keshavarz, DFT molecular orbital calculations of initial step in decomposition pathways of TNAZ and some of its derivatives with -F, -CN and -OCH^r groups, Computational and Theoretical Chemistry 975 (Y, Y) Y7Y-Y7A.
- N. Oftadeh, S. Naseh, M. Hamadanian, Electronic properties and dipole polarizability of thiophene and thiophenol derivatives via density functional theory, Computational and Theoretical Chemistry 977 (7.11) 7.-70.
- VY. Mohsen Oftadeh, Nafice Makkei, Mahnaz Khosravi Farsani, Investigation of adsorption process and thermodynamics of cochineal dye on wool, Journal of Materials Science and Engineering B, USA, 1 (Y · 11) TAA-TAT.
- M. Oftadeh, A. Aghtar, M. Nasr Esfahani, Masoud Salavati-Niasarid, N. Mir, Fabrication of highly efficient dye-sensitized solar cell and CO_Y reduction photocatalyst using TiO_Y nanoparticles prepared by spin coating assisted sol-gel method, Journal of Iranian Chemical Society, xx (Y, M) xxx-xxxx. In Press.
- ¹⁴. **Mohsen Oftadeh**, Leila Tavakolizadeh, Investigation of optoelectronic properties of N^{\mathbb{T}} dyesensitized TiO_{\mathbb{T}} nanocrystals by hybrid methods: ONIOM (QM/MM) calculations, International Nano Letters, ^{$\mathbf{T}(1)$} (^{\mathbf{T}}·¹) ^{o-4}.
- ^{γ}. Nosrat Madadi Mahani, **Mohsen Oftadeh**, Kinetic and thermodynamic study of activated Carbon from pistachio shell by thermogravimetric method, Journal of Materials Science and Engineering A, USA, $1(\gamma \cdot 11) \wedge (\gamma \cdot 12) \wedge (\gamma \cdot$

Conference Papers (7 · · 1 - 7 · 1 1)

- M. H. Keshavarz and M. Oftadeh, "Performance of Υ, ٤-Dinitroimidazole as a Insensative Energetic Material", ΥΛth International Pyrothechnics Seminar, Australia, ٤Υ)-٤ΥΨ (Υ··).
- Y. M. H. Keshavarz and M. Oftadeh, "A New Correlation for Predicting Detonation Properties of Explosives", YAth International Pyrothechnics Seminar, Australia, £19-£7. (Y...).
- ^r. M. H. Keshavarz and M. Oftadeh, "Detonation Properties of ^γ, ^ε, ^γ-Trinitro-^γ, ^e, ^e-Triazine (TNTA) as a High-Energy Density Explosive", ^εth Physical Chemistry Seminar, Booshehr, Iran, March ^γ...).
- M. H. Keshavarz and M. Oftadeh, "Behavior of Hydroxyethylhydrazine as Liquid Propellant and Composition Detonation Products of ^γ^ε-DNI with BKW-EOS", ^oth Physical Chemistry Seminar, Tehran, Iran, Feb., ^γ^{···γ}.
- M. H. Keshavarz and M. Oftadeh, "Study of Performance of Υξ-DNI as a Solid Oxidizer in Rocket Propellant", oth Physical Chemistry Seminar, Tehran, Iran, Feb., Υ···Υ.
- M. Oftadeh and M. H. Keshavarz, "The Synthesis of Fullerene C¹ by Simple Arc Method", oth Physical Chemistry Seminar, Tehran, Iran, Feb., ¹ .
- ^v. M. H. Keshavarz and M. Oftadeh, "Study of P_{cj} Correlation Aided by PM^r Procedure for Condenced CHNO Explosives", ^r^{, th} ASPEP Conference, France ^r^{, , r}.
- ^A. M. H. Keshavarz and M. Oftadeh, "Study of the Performance of '-Methyl-'cyanoethylhydrazine as a Liquid Mono- and Bipropellant", "th ASPEP Conference, France ^t...".
- ۹. M. H. Keshavarz and M. Oftadeh "Performance Study of ۱,۱-dimethyl-۲-cyanoethylhydrazine as Liquid Propellant", ^{Ath} AISPEP Conference, China, ۲۰۰۳.
- Y. M. H. Keshavarz and M. Oftadeh, "New Method for Predicting od CJ Detonation Velocity of CHNO Explosives at any Loading Density", ^{Ath} AISPEP Conference, China, ^Y.
- 17. M. Oftadeh, "The Investigation of the propellant performance of Some of the Nitroquanidine, Azol Derivatives and Nitroamides Compounds as Gas Generators", 11th Asian Chemical Congress, Korea, 7...o.

- 14. M. Oftadeh and M. Hamadanian, "The Investigation of the Deflagration Pathway of CHNOF Explosives of Mono and Di Cyclic nitramine Compounds by Ab initio and semiemperical calculations", f)st IUPAC World Chemistry Congress, Turin, Italy, Aug. Y...Y.
- M. Hamadanian and M. Oftadeh, "The Investigation of the Deflagration Pathway of CHNOF Explosives of tri-Cyclic Nitramine Compounds by Ab Initio and Semiemperical Calculations", ***1st IUPAC World Chemistry Congress, Turin, Italy, Aug. ***...***.
- N. Oftadeh and M. Salavati niasari, "Synthesis, Characterization and Catalytic Oxidation by Host (Nanocage of Zeolite-Y)/Guest (Metal Complexes of NY-Membered Thio Macrocyclic Schiff-base Ligand) Nano Composite Materials", IXth Netherlands' Catalysis and Chemistry Conference, Noordwijkerhout, Netherlands, March Y...A.
- ۱۷. **M. Oftadeh**, N. Makkei and M. Khosravi Farsani, "An Adsorption and Thermodynamic Study of Cochineal Dyeing on Wool", PACCON۲۰۰۹, Phistanulok, Thailand, Jan. ۲۰۰۹.
- M. Oftadeh, M Salavati Niasari and F. Davar, "Nanodimensional microreactors encapsulation of 10- and 17-membered macrocyclic Schiff-base copper(II) complex nanoparticles: catalytic oxidation", XIth Natherlands Catalysis ans Chemistry Conference, Netherlands, March 7.1.
- 14. M. Oftadeh and M. Moghadari, "Donor-acceptor in the charge transfer molecular complexes of C₁S₁H_A and C₂S₇H₁ with dihalogenes: DFT method", Fourth Humboldt Conference on Computational Chemistry, Bulgaria, July Y. V.
- Y. M. Oftadeh and L. Tavakolizadeh, "Investigation of optical properties of sensitisized TiOY nanoparticles by N^r with ONIOM method", rd International Congress on Nanoscience and Nanotechnolohy (ICNN^Y, ¹, ¹), Shiraz, Iran, Nov ^Y, ¹.

- N. M. Oftadeh and M. H. Keshavarz, "Synthesis and Evaluation of The Explosive and Propellant Performance of High Energetic ^x,^z-dimethyimidazol", Malek Ashtar University, Shahinshar, Isfahan (^x...).
- Y. M. H. Keshavarz and M. Oftadeh, "Synthesis and Evaluation of Many Low Volatile Hydrazine Derivatives for Using in Missiles with Liquid Fuels", Malek Ashtar University, Shahinshar, Isfahan (Y...).
- M. Oftadeh and M. K. Keshavarz, "Investigation of Explosive Performance of Dense Fluid by Using Equation of State", Payame Noor University, Isfahan (^γ··^ξ).

- M. Oftadeh and M. Hashmi Talkhoncheh, "Laburatory Synthesis of Diallylester" Isfahan Payame Noor University, Isfahan (^(*,*o)).
- M. Oftadeh and M. Hamadanian, "Investigation of The Degradation Pathways for Many Mono, Di and Tri Cyclic Compounds of CHNOF Explosives by Ab Initio and Semiepmerical Methods", Payame Noor University, Isfahan (Y • • Y).
- N. Ofatdeh and M. Salavati Niasari, "Host/Guest Nanocomposite Materials (HGNM): Synthesis, Characterization and Catalytic Activity", Payame Noor University, Isfahan (Y.).
- M. Ofatdeh, "AM¹ Study of Acidities of Fulleropyrrolindines in Gas and Solution Phases", Payame Noor University, Isfahan (⁽¹⁾).
- A. M. Oftadeh, "Theoretical Study and Investigation of the Adsorption of N^r Dye and Its Derivatives on the TiO_r Nanoparticles as an Electrode using in DSSC by DFT Method", Payame Noor University, Isfahan (^r, ¹).

Recent Books

- M. Oftadeh and M. Hamadanian, "General Chemistry in Laburatory", Samaghalam Publications (7 · · 7).
- Y- M. Oftadeh, "English for Chemistry Students", Payame Noor University Publications (Y · · ٦)
- r- **M. Oftadeh**, "Physical Chemistry I", translated of "Physical Chemistry" by R. G. Mortimer, r^{rd} edition, Elsevier publications, in Persian $(r \cdot) \cdot$).

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