

Curriculum Vitae

Name Mohsen Oftadeh

Present Occupation Professor

Nationality Iranian

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Educational Qualification

Degree	University	Year
B.Sc. (Pure Chemistry)	Isfahan University (Isfahan, Iran)	1990
M.Sc. (Physical Chemistry)	Isfahan University (Isfahan, Iran)	1993
Ph.D. (Quantum Chemistry)	Shiraz University (Shiraz, Iran)	1998

Teaching Experience (1999-2012)

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.

The Title of the MSC Dissertation (1993)

The Investigation of the High Pressures on the Displacement of the Radial Distribution of The Hydrogen Atom in Ground State (supervisor: Prof. M. Soltanolketabi).

The Title of the PhD Dissertation (1998)

First and Second Analytical Derivatives of Molecular Integrals for Calculations of Energy Using Spherical Gaussian & Application of Simplified PV-RR Procedure for H₂ and LiH Molecules & Lone Pair Description in FSGO Method for Some Cyclic Carbenes (supervisor: Prof. A. H. Pakyari).

List of the Publications (1997-2014)

1. A. H. Pakyari, **M. Oftadeh**, First Derivative of Molecular Integrals for Electronic Energy Using Spherical Gaussian Type Orbitals, *J. Molecular Structure (THEOCHEM)*, 389 (1997) 169-177. <https://www.academia.edu/26535037>
2. A. H. Pakyari, **M. Oftadeh**, Analytical Second Derivatives of Molecular Integrals Obtained by Spherical Gaussian Orbital, *J. Molecular Structure (THEOCHEM)*, 430 (1998) 177-190. DOI: 10.1016/s0166-1280(98)90237-8
3. M. H. Keshavarz, **M. Oftadeh**, A New Correlation for Predicting the C-J Pressure of CHNO Explosive, *High Temperature-High Pressure*, 34, (2002) 495-497. DOI: 10.1068/htjr050
- M. H. Keshavarz, **M. Oftadeh**, Two New Correlations for Predicting Detonation Power of CHNO Explosives, *Bull. Korean Chem. Soc.*, 24(1) (2003)19-22. <https://doi.org/10.5012/bkcs.2003.24.1.019>
5. M. H. Keshavarz, **M. Oftadeh**, New Estimated Method for Estimating Heat of Formation of CHNO Explosives in Crystalline State, *High Temperature-High Pressure*, 35/36 (2003) 499-504. DOI: 10.1068/htjr094
6. M. H. Keshavarz, **M. Oftadeh**, Simple Method of Predicting Detonation Pressure of CHNO Mixed Explosives, *Indian J. Eng. Mater. Sci.*, 10 (2003) 236-238. [123456789/24205/1/IJEMS%2010\(3\)%20236-238](https://doi.org/10.1007/s12046-010-0236-2)
7. M. H. Keshavarz, **M. Oftadeh**, Performance Study of Energetic Compound 2,4,6-Trinitro-1,3,5-Triazine, *Asian J. Chem.*, 17(2) (2005) 663-667. asianjournalofchemistry.co.in
8. M. H. Keshavarz, **M. Oftadeh**, Performance Study of 1,1-Dimethyl-2- Cyanoethylhydrazine as Liquid Propellant, *Theory and Practice of Energetic Materials*, 5 (2003) 173-177.

9. M. H. Keshavarz, **M. Oftadeh**, New Method for Predicting of C-J Detonation Velocity of CHNO Explosives at Any Loading Density, *Theory and Practice of Energetic Materials*, 5 (2003) 721-724.
10. M. Salavati Niasari, S. Abdolmohammadi, **M. Oftadeh**, Host (Nanopores of Zeolite-Y)/Guest (Co(II)-Azamacrocyclic Complexes) Nanocomposite Materials: Synthesis, Characterization and Catalytic Epoxidation of Styrene with Molecular Oxygen, *J. Coord. Chem.*, 61(17) (2008) 2837-2851. <https://doi.org/10.1080/00958970801986817>
11. A. Semnani, H. R. Pouretedal, M. F. keshavarz, A. R. Firooz, **M. Oftadeh**, Interaction Between 1, 3, 5-Trithiane and Iodine Monobroide in Halomethane Solutions, *Heterocyclic Commu.*, 14(3), 206, 2008. DOI:10.1515/HC.2008.14.3.205
12. **M. Oftadeh**, M. Salavati Niasari, F. Davar, Synthesis of ZnO Nanoparticles and Their Optical Properties, *Int. J. Nanoparticles*, 2 (2009) 328-334. DOI: 10.1504/IJNP.2009.028764
13. **M. Oftadeh**, M. Salavati Niasari, F. Davar, Sized-Controlled ZnO Nanoparticles, Synthesis and Morphology, *Int. J. Nanoscience*, 3 (2009) 277-279. <https://doi.org/10.1142/S0219581X0900616X>
14. A. Semnani, A.R. Firooz, H.R. Pouretdal, M.H. Keshavarz, **M. Oftadeh**, Complex Formation Between Some Thiacrownethers and 1,3,5-Trithian with Bromine in Gas Phase and Carbon Tetrachloride Solution, *Chemistry*, 19 (2010) 80-92.
15. **M. Oftadeh**, M. Hamadian Khosani, M. Radhoosh, M. H. Keshavarz, DFT molecular orbital calculations of initial step in decomposition pathways of TNAZ and some of its derivatives with -F, -CN and -OCH₃ groups, *Comp. Theo. Chem.*, 964 (2011) 262-268. <https://doi.org/10.1016/j.comptc.2011.01.007>
16. **M. Oftadeh**, S. Naseh, M. Hamadian, Electronic properties and dipole polarizability of thiophene and thiophenol derivatives via density functional theory, *Comp. Theo. Chem.*, 966 (2011) 20-25. <https://doi.org/10.1016/j.comptc.2011.02.003>
17. **M. Oftadeh**, N. Makkei, M. Khosravi Farsani, Investigation of adsorption process and thermodynamics of cochineal dye on wool, *J. Mat. Sci. Eng. B, USA*, 1 (2011) 388-393.
18. **M. Oftadeh**, A. Aghtar, M. Nasr Esfahani, Masoud Salavati-Niasari, N. Mir, Fabrication of highly efficient dye-sensitized solar cell and CO₂ reduction photocatalyst using TiO₂ nanoparticles prepared by spin coating assisted sol-gel method, *J. Iranian Chem. Soc.*, 9(2) (2011) 143-149. DOI: 10.1007/s13738-011-0017-8
19. **M. Oftadeh**, L. Tavakolizadeh, Investigation of optoelectronic properties of N3 dye-sensitized TiO₂ nanocrystals by hybrid methods: ONIOM (QM/MM) calculations, *International Nano Letters*, 2(1) (2011) 5-9. DOI: 10.1186/2228-5326-3-26

20. N. Madadi Mahani, **M. Oftadeh**, Kinetic and thermodynamic study of activated Carbon from pistachio shell by thermogravimetric method, *J. Mat. Sci. Eng. A, USA*, 1 (2011) 887-891.
[Corpus ID: 100645796](#)
21. **M. Oftadeh**, B. Gholamalian, M. Hamadani, Investigation of the interaction of carbon dioxide fluid with internal and external single-wall carbon nanotubes by DFT, *J. Nano Struct.*, 1 (2012) 213-223. [article_5311_1d27994f8cf2d466d4011aac66627263](#)
22. **M. Oftadeh**, N Madadi Mahani, M. Hamadani, Density Functional Theory Study of the Local Molecular Properties of Acetamide Derivatives as Anti-HIV Drugs, *Res. Pharm. Sci.*, 8(4), (2013) 285-297. **PubMedID: PMC3757594**
23. **M. Oftadeh**, M. Moghadari, M. Solimannejad, A. Semnani, A Study of Donor-Acceptor in the Charge Transfer Molecular Complexes of Some Thiacrown Ethers with Dihalogen Molecules by DFT Method, *Acta Chim. Slov.*, 60 (2013) 95-104. **PubMedID: 23841337**
24. G. Rezaiebehbahani. **M. Oftadeh**, S. Rafiei, Experimental Investigation of the Effects of Beta-cyclodextrin on the Unfolding and Aggregation of Human Serum Albumin, *Biochem. Indian J.*, 7(1) (2013) 15-21. www.tsijournals.com
25. **M. Oftadeh**, M. Gholamian, H. H. Abdallah, Investigation of interaction hydrogen sulfide with (5,0) and (5,5) single-wall carbon nanotubes by density functional theory method, *Int. Nano Let.*, 7(3) (2013) 7-14. <https://doi.org/10.1186/2228-5326-3-7>
26. **M.**, S. Selahvarzi1, M. H. Keshavarz, Intermolecular Interactions between TNAZ and H₂O: a DFT Study, *Cen. Eur. J. Energ. Mat.*, 10 (2) (2013) 289-300. [DOI: 10.1.1.1040.5899](#)
27. **M. Oftadeh**, N. Madadi Mahani and R. Bahjatmanesh Ardakani, The Investigation of a Linear–Dendrite Copolymeric Nanoparticles As Drug Carriers: ONIOM Study, *J. Nano Struct.*, 2 (2013) 485-488. [article_5421_8856b310b246e45d7d9a4cd6c52487d0](#)
28. **M. Oftadeh**, N. Madadi Mahani, Polymer drug interactions in thiadiazolylthioacetamide derivatives–linear dendritic copolymer nanoparticles: ONIOM approach, *J. Pharm. Inves.*, 43 (2013) 323–331. **DOI: 10.1007/s40005-013-0074-3**
29. **M. Oftadeh**, M. Geramirad, A. Teymouri, Theoretical Study of Some Methyl and Fluoride Derivatives of Bis-piperidiniummethyl-thiourea as Corrosion Inhibitors, *Phys. Chem. Indian J.*, 8 (3) (2013) 97-105. [tsijournals.com/articles](http://www.tsijournals.com/articles)
30. E. Shakerzadeh, E. Tahmasebi, **M. Oftadeh**, The impact of intramolecular H-bonding on the aromatic character of substituted penta-fulvenes, *Comp. Theo. Chem.*, 1017 (2013) 31-36. <http://dx.doi.org/10.1016/j.comptc.2013.05.003>

31. **M. Oftadeh**, A. Kabiri, Charge Transfer in Some Complexes of Crown Ether and of Thiocrown Ether with Dihalogens: DFT Study, *Acta Chim. Slov.*, 60(4) (2013) 790-796. **PubMedID:** 24362982
32. **M. Oftadeh**, M. Gholamian, H. H. Abdallah, Sulfur Dioxide Internal and External Adsorption on the Single-Walled Carbon Nanotubes: DFT Stud, *Phys. Chem. Res.*, 2(1) (2014) 30-40. **DOI:** 10.22036/PCR.2014.3824
33. **M. Oftadeh**, M. Madadi Mahani, A Thermodynamic Study of the Interactions between Acetamide Derivatives and PCA-PEG-PCA Copolymers: ONIOM Calculations, *Phys. Chem. Res.*, 2 (2) (2014) 131-136. **DOI:** 10.22036/PCR.2014.4583
34. **M. Oftadeh**, M. H. Keshavarz, R. Khodadadi, Prediction of the Condensed Phase Enthalpy of Formation of Nitroaromatic Compounds Using the Estimated Gas-Phase Enthalpies of Formation by PM3 and B3LYP Methods, *Cen. Eur. J. Energ. Mat.*, 11(1) (2014) 569-580. ipo.lukasiewicz.gov.pl
35. **M. Oftadeh**, L. Saghai, S. Pirialam, Theoretical Evaluation of Medicinal Properties for Some of N-aryl-3-hydroxypyridine-4-ones Derivative Compounds, *Iran. Chem. Commun.*, 2 (2014) 82-92. <http://icc.journals.pnu.ac.ir>
36. M. Ghaedi, M. Danaei Ghazanfarkhani, S. Khodadoust, N. Sohrabi, **M. Oftadeh**, Acceleration of methylene blue adsorption onto activated carbon prepared from dross licorice by ultrasonic: Equilibrium, kinetic and thermodynamic studies, *J. Ind. Eng. Chem.* 20 (2014) 2548–2560. <http://dx.doi.org/10.1016/j.jiec.2013.10.039>
37. N. Yaghoobi Nia, P. Farahani, H. Sabzyan, M. Zendehtel, **M. Oftadeh**, A combined computational and experimental study of the $[\text{Co}(\text{bpy})_3]^{2+/3+}$ complexes as one-electron outer-sphere redox couples in dye-sensitized solar cell electrolyte media, *Phys. Chem. Chem Phys.* 16 (2014) 11481-11491. <https://doi.org/10.1039/C3CP55034F>
38. M. Ghorbani, H.R. Shaterian, S. Noura, F. Khammar, K. Behbodi, B. Reisi, **M. Oftadeh**, Effective preparation of hexahydroquinolines under ambient and solvent-free conditions, *J. Mol. Liq.* 204 (2015) 15–20. <http://dx.doi.org/10.1016/j.molliq.2015.01.013>
39. **M. Oftadeh**, G. Rezaei Behbahani, A. A. Saboury and S. Rafiei, Investigation of the effects of various cyclodextrins on the stabilisation of human serum albumin by a spectroscopic method, *J. Aus. Chem.*, <http://dx.doi.org/10.1071/CH15079>.
40. M. Ghorbani, S. Noura, **M. Oftadeh**, M. Narimani, Preparation, characterization and application of novel ionic liquid as an efficient and reusable catalyst for the solvent-free synthesis of hexahydroquinolines, *J. Mol. Liq.* 209 (2015) 224-232. <http://dx.doi.org/10.1016/j.molliq.2015.06.011>

41. M. Ghorbani, S. Noura, M. Oftadeh, M. A. Zolfigol and M. Haji Soleimani, Preparation of neutral ionic liquid [2-Eim] OAc with dual catalytic-solvent system roles for the synthesis of 2-amino-3-cyano-7-hydroxy-4-(aryl)-4H-chromene derivatives, *J. Mol. Liq.* 212 (2015) 291-300. <http://dx.doi.org/10.1016/j.molliq.2015.09.024>
41. M. Ghorbani, S. Noura, **M. Oftadeh**, E. Gholami and M. A. Zolfigol, Novel ionic liquid [2-Eim] HSO₄ as a dual catalytic-solvent system for preparation of hexahydroquinolines undergreen condition, *RSC Adv.* 5 (2015) 55303-55312. <https://doi.org/10.1039/C5RA09666A>
42. **M. Oftadeh**, M. Rezaeisadat, A. Rashidi, A theoretical study of H₂S and CO₂ interaction with the single-walled nitrogen doped carbon nanotubes, *Int. J. Bio-Inorg. Hybr. Nanomater.* 4 (2015) 39-48. http://ijbihn.iauvaramin.ac.ir/article_642857_b28596af1d7571764880825700f8d363.pdf
43. M. H. Keshavarz, K. Esmaeilpour, **M. Oftadeh** and Y. Hayat Abadi, Assessment of two new nitrogen-rich tetrazine derivatives as high performance and safe energetic compounds, *RSC Adv.* 5 (2015) 87392-87399. <https://doi.org/10.1039/C5RA13377G>
44. M. H. Keshavarz, Y. Hayat Abadi, K. Esmaeilpour, S. Damiri and **M. Oftadeh**, Introducing Novel Tetrazole Derivatives as High Performance Energetic Compounds for Confined Explosion and as Oxidizer in Solid Propellants, *Propellants Explos. Pyrotech.* 42 (2017) 1–8. <https://doi.org/10.1002/prep.201600249>
44. **M. Oftadeh**, M. Moshfegh; H. H. Abdallah, Optical properties of some oligothiophene derivatives: DFT study, *Phys. Chem. Res.* 4 (2016) 35-46. DOI: 10.22036/PCR.2016.11704
45. M. Bielejewski, M. Ghorbani, M. A. Zolfigol, J. TrittGoc, S. Noura, M. Narimani and **M. Oftadeh**, Thermally reversible solidification of novel ionic liquid [im]HSO₄ by self-nucleated rapid crystallization: investigations of ionic conductivity, thermal properties, and catalytic activity, *RSC Adv.* 6 (2016) 108896-108907. <https://doi.org/10.1039/C6RA21488F>
46. **M. Oftadeh**, F. Hajati, M. Jamshidi, H. javaherian Naghash, Study of structure and thermal properties of styrene-butylacrylate copolymer with OMMT nanocomposite emulsions, *Iran. Chem. Commun.*, 7 (2019) 63-70. DOI: 10.30473/icc.2019.4234
47. S. Noura, M. Ghorbani, M.A. Zolfigol, M. Narimani, M.Yarie, and **M. Oftadeh**, Biological based (nano) gelatoric ionic liquids (NGILs): Application as catalysts in the synthesis of a substituted pyrazole via vinylogous anomeric based oxidation, *J. Mol. Liq.* 271 (2018) 778–785. <https://doi.org/10.1016/j.molliq.2018.09.023>
48. **M. Oftadeh**, M Fereidoon nezahad,, M Aliyan, F Aliyan, Molecular docking studies on xanthohumol derivatives as novel anticancer agents , *Iran. Chem. Commun.*, 7 (2019) 432-444.

49. **M. Oftadeh** and B. Jamalian, Theoretical calculations of refractive index of synthesized one and two substituted derivatives of functionalized bithiophene compounds, *Phys. Chem. Res.*, 7 (2019) 261-270. DOI: 10.22036/pcr.2019.153511.1552
50. A. Khosravi, E. Vessally, **M. Oftadeh** and R. Behjatmanesh-Ardakani, Ammonia capture by MN₄ (M = Fe and Ni) clusters embedded in graphene, *J. Coord. Chem.*, 71:21, (2018) 3476-3486. <https://doi.org/10.1080/00958972.2018.1522434>
51. A. Shiekhzadeh, N. Sohrabi, M. Eslami Moghadam and **M. Oftadeh**, Kinetic and thermodynamic investigation of human serum albumin interaction with anticancer glycine derivative of platinum complex by using spectroscopic methods and molecular docking, *Appl. Biochem. Biotech.*, 190(2) (2020) 506-528. <https://doi.org/10.1007/s12010-019-03078-y>
52. S. Sadeghi, H. Mohammad Shiri, A. Ehsani and **M. Oftadeh**, Electrosynthesis of high-purity TbMn₂O₅ nanoparticles and its nanocomposite with conjugated polymer: Surface, density of state and electrochemical investigation, *Solid State Sciences* 105 (2020) 106227. <https://doi.org/10.1016/j.solidstatesciences.2020.106227>
53. Z. Yazdanpanahfard, **M. Oftadeh** and S. Fakhraee, Ultrafast luminescence decay in Rhenium(I) complexes with imidazo[4,5-f]-1,10-phenanthroline ligands: TDDFT method, *Phys. Chem. Res.*, 8(4) (2020) 609-627. DOI: 10.22036/pcr.2020.210913.1705
54. H. Mohammad-Salim, R. Hassan, H. H. Abdallah and **M. Oftadeh**, Theoretical study on the mechanism of [3+2] cycloaddition reactions between α,β -unsaturated selenoaldehyde with nitron and with nitrile oxide, *J. Mex. Chem. Soc.*, 64(2) (2020) 73-90. <http://dx.doi.org/10.29356/jmcs.v64i2.1111>
55. R. Behjatmanesh-Ardakani, N. Safaeian, **M. Oftadeh** and M. Fallah-Mehrjardi, Knoevenagel condensation versus Michael addition reaction in ionic-liquid-catalyzed synthesis of hexahydroquinoline: a SMD–DFT study, *Theoretical Chemistry Accounts* 139 (2020) 45-55. <https://doi.org/10.1007/s00214-020-2565-4>
۵۵. بهناز شاهرخ، محسن افتاده، نسرین سهرابی، پتانسیل واگرایی خاک کانال های آبیاری در مناطق خشک و نیمه خشک با اثربخشی امواج الکترومغناطیسی در روش شیمیایی: مطالعه موردی خوزستان، نشریه زمین شناسی مهندسی، ۱۵ (۱۴۰۰). <http://jeg.khu.ac.ir/article-1-2946-fa.html>
56. S. Sadeghi, H. Mohammad Shiri, A. Ehsani and **M. Oftadeh**, Electrosynthesis of highly pure perovskite type YbMnO₃ nanoparticles and its nanocomposite with conjugated polymer: Surface, density of state and electrochemical investigation, *Surface and interfaces*, 24 (2021) 101130. <https://doi.org/10.1016/j.surfin.2021.101130>

57. A. Shiekhzadeh, N. Sohrabi, M. Eslami-Moghadam, A. Divsalar, N. Soltani, **M. Oftadeh** and F. Fateminasab, Spectroscopic and docking molecular study of new anticancer Pt complex binding with human serum albumin, Nucl. Nucl. Nucleic Acids, 40(4) (2021) 369-392. <https://doi.org/10.1080/15257770.2021.1880010>.
58. **M. Oftadeh**, Z. Barfarakh and F. Ravari, Luminescent excited-state intramolecular proton-transfer dyes based on 4-functionalized 6,6'-dimethyl-3,3'-dihydroxy-2,2'-bipyridine (BP(OH)₂-Rs); DFT simulation study, J Mol. Graph. Mod., 107 (2021) 107948. <https://doi.org/10.1016/j.jmgm.2021.107948>
59. A. Karimianfard, **M. Oftadeh** and A. Mohajeri, Various electrode configurations effect on the electronic transport of CNT/Benzene/CNT system by DFT-NEGF method, Iran. J. Sci. Technol. Trans. Sci., 45 (2021) 1655-1663. DOI: [10.1007/s40995-021-01178-1](https://doi.org/10.1007/s40995-021-01178-1)
60. A. Shiekhzadeh, N. Sohrabi, M. Eslami Moghadam, **M. Oftadeh** and A. Divsalar, Effect of presence of aliphatic glycine in the anti-cancer platinum complex structure on human serum albumin binding, J. Pharm. Innov., 2020. <https://doi.org/10.1007/s12247-020-09508-3>
61. Z. Arabpour Shiraz, N. Sohrabi, M. Eslami Moghadam and **M. Oftadeh**, Dynamic and thermodynamic investigation on the interaction of bovine serum albumin with an anticancer Pt complex containing dithiocarbamate using molecular docking and spectroscopic methods, Polycycl. Aromat. Comp., (2022) 1-21. DOI: 10.1080/10406638.2022.2058027
62. K. Tavakoli Hafshejani, N. Sohrabi, M. Eslami Moghadam, **M. Oftadeh**, Investigation of the physico-chemical interaction of ct-DNA with anticancer Glycine derivative of Pt-complex by applying docking and MD simulation methods and multi-spectroscopic techniques, J. Mol. Struc., 1263 (2022) 133115. DOI: <https://doi.org/10.1016/j.molstruc.2022.133115>
63. Z. Arabpour Shiraz, N. Sohrabi, M. Eslami Moghadam , **M. Oftadeh**, Molecular docking and spectroscopic study of bovine serum albumin interaction with new anticancer Pt complex with isopentyl dithiocarbamate ligand, Nucl. Nucl. Nucleic Acids, 24 (2023) 1-17, DOI: 10.1080/15257770.2023.2233576.
64. R. Masoumifard, **M. Oftadeh**, and K. Eskandari, Investigation of quantum conductance in silicon nanowire doped with boron in the presence and absence of (3-Aminopropyl) triethoxysilane molecule. Iran J. Sci. (2023). <https://doi.org/10.1007/s40995-023-01501-y>.
65. M. Beheshti Marnani, **M. Oftadeh** and N. Sohrabi, Adsorption of folic acid molecule on diphenylalanine peptide nanohole as a drug delivery in cancer treatment: a molecular dynamics simulation study, J. Mol. Mod. (2023) 29:213. <https://doi.org/10.1007/s00894-023-05594-5>.

66. H. Tavakoli Moghadam, **M. Oftadeh**, N. Sohrabi and M. Azami, Investigation of electronic and topological properties of magnesium-coated boron fullerenes and their interaction with hydrogen molecule, J Nanostruct. (2023) 13(1): 254-265, DOI:10.22052/ JNS.2023.01.026
67. J. Farajzadeh, **M. Oftadeh** and N. Sohrabi, Molecular interaction between N-butylpyridinium tetrafluoroborate and cyclic Sulfur compounds: A DFT study, J. Ionic Liq. (2024) in press, DOI: <https://doi.org/10.1016/j.jil.2024.100094>

Conference Papers (2001-2011)

1. M. H. Keshavarz and **M. Oftadeh**, “Performance of 2, 4-Dinitroimidazole as a Insensitive Energetic Material”, 28th International Pyrotechnics Seminar, Australia, 421-423 (2001).
2. M. H. Keshavarz and **M. Oftadeh**, “A New Correlation for Predicting Detonation Properties of Explosives”, 28th International Pyrotechnics Seminar, Australia, 417-420 (2001).
3. M. H. Keshavarz and **M. Oftadeh**, “Detonation Properties of 2, 4, 6-Trinitro-1,3,5-Triazine (TNTA) as a High-Energy Density Explosive”, 4th Physical Chemistry Seminar, Booshehr, Iran, March 2001.
4. M. H. Keshavarz and **M. Oftadeh**, “Behavior of Hydroxyethylhydrazine as Liquid Propellant and Composition Detonation Products of 24-DNI with BKW-EOS”, 5th Physical Chemistry Seminar, Tehran, Iran, Feb., 2002.
5. M. H. Keshavarz and **M. Oftadeh**, “Study of Performance of 24-DNI as a Solid Oxidizer in Rocket Propellant”, 5th Physical Chemistry Seminar, Tehran, Iran, Feb., 2002.
6. **M. Oftadeh** and M. H. Keshavarz, “The Synthesis of Fullerene C60 by Simple Arc Method”, 5th Physical Chemistry Seminar, Tehran, Iran, Feb., 2002.
7. M. H. Keshavarz and **M. Oftadeh**, “Study of P_{c_j} Correlation Aided by PM3 Procedure for Condensed CHNO Explosives”, 30th ASPEP Conference, France 2003.
8. M. H. Keshavarz and **M. Oftadeh**, “Study of the Performance of 1-Methyl-1-cyanoethylhydrazine as a Liquid Mono- and Bipropellant”, 30th ASPEP Conference, France 2003.
9. M. H. Keshavarz and **M. Oftadeh** “Performance Study of 1,1-dimethyl-2-cyanoethylhydrazine as Liquid Propellant”, 8th AISPEP Conference, China, 2003.
10. M. H. Keshavarz and **M. Oftadeh**, “New Method for Predicting od CJ Detonation Velocity of CHNO Explosives at any Loading Density” , 8th AISPEP Conference, China, 2003.
11. M. H. Keshavarz and **M. Oftadeh**, “Theoretical Study of K-6 as High Performance Explosive and Oxidizer”, 8th AISPEP Conference, China, 2003.

12. M. Oftadeh, "The Investigation of the propellant performance of Some of the Nitroguanidine, Azol Derivatives and Nitroamides Compounds as Gas Generators", 11th Asian Chemical Congress, Korea, 2005.
13. M. Hamadani and **M. Oftadeh**, "Investigation of Explosive Performance of mono-, Bi- and Tri-cyclic Nitramines by ab-initio Computational Methods", MCC 2006 , Croatia, 2006.
14. **M. Oftadeh** and M. Hamadani, "The Investigation of the Deflagration Pathway of CHNOF Explosives of Mono and Di Cyclic nitramine Compounds by Ab initio and semiempirical calculations", 41st IUPAC World Chemistry Congress, Turin, Italy, Aug. 2007.
15. M. Hamadani and **M. Oftadeh**, "The Investigation of the Deflagration Pathway of CHNOF Explosives of tri-Cyclic Nitramine Compounds by Ab Initio and Semiempirical Calculations", 41st IUPAC World Chemistry Congress, Turin, Italy, Aug. 2007.
16. **M. Oftadeh** and M. Salavati niasari, "Synthesis, Characterization and Catalytic Oxidation by Host (Nanocage of Zeolite-Y)/Guest (Metal Complexes of 12-Membered Thio Macrocylic Schiff-base Ligand) Nano Composite Materials", IXth Netherlands' Catalysis and Chemistry Conference, Noordwijkerhout, Netherlands, March 2008.
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3. REXON team, 3rd rank in the international Chem-E-Car performance Competition, Adelaide University, Adelaide, Australia, 2016.