

Curriculum Vitae

Personal Information

Name	Javad Beheshtian
Date and Place of Birth	21 April , 1972- Neyshabur, Iran
Address	Department of Chemistry, Shahid Rajaee University (SRTTU), Tehran, Iran
E-mail	j.beheshtian@sru.ac.ir j.beheshtian@gmail.com
Tel	+98-21-22970060
Fax	+98-21-22970005

Education and Research Experience

Sept 2010 – Current	Assistant Professor, Shahid Rajaee Teacher Training University (SRTTU), Tehran, Iran.
Sept 2005- July 2010	PhD student in physical chemistry (<i>The study of physico-chemical adsorption of some molecules on Boron Nitride nanotubes using computational methods</i>), Tarbiat modares university (TMU), Tehran, Iran. http://www.modares.ac.ir
July 1999 - Sept 2002	MSc in physical chemistry (<i>The study of Surfactants by NMR spectroscopy using PFG method</i>), Tarbiat modares university (TMU), Tehran, Iran. http://www.modares.ac.ir
Languages	Farsi (native), English (good)
Research Interest	Computational chemistry (Molecular Simulation, Ab initio calculations) in the Following subjects: intermolecular forces (especially dispersion forces), many-body contribution to the molecular potential energy surfaces (PES), Quantum Chemical Study applied to : Nanotechnology, Gas storage, Complex Reactions, solar cell
Computer experience	Windows, Linux, Mac/Unix platforms, C/C++, Fortran Gaussian 09, gamess 09, material studio 5

Publications in refereed journals

- 1) Theoretical ^{14}N Nuclear Quadrupole Resonance Parameters for Sulfa Drugs: Sulfamerazine and Sulfathiazole
Mehdi D. Esrafil, Hadi Behzadi, **Javad Beheshtian** and Nasser L. Hadipour
Journal of Molecular Graphics and Modeling, 27 (2008) 326-331
- 2) ^{15}N Chemical Shift Calculations and Natural Bonding Orbital Analyses of (Benzamide) $_{n=1-6}$ Clusters
Mehdi D. Esrafil, **Javad Beheshtian** and Nasser L. Hadipour
Journal of Theoretical and Computational Chemistry, 8 (2009) 973-982
- 3) A density functional study of ^{15}N chemical shielding tensors in quinolines
Hadi Behzadi, Mehdi D. Esrafil, **Javad Beheshtian** and Nasser L. Hadipour, David van der Spoel
Chemical Physics Letters 476 (2009) 196- 200
- 4) DFT study of NH_3 adsorption on the (5,0), (8,0), (5,5) and (6,6) single-walled carbon nanotubes. Calculated binding energies, NMR and NQR parameters
Bahram B. Shirvani, **Javad Beheshtian**, Mehdi D. Esrafil, Nasser L. Hadipour
Physica B: Condensed Matter, Volume 405, 6 (2010) 1455-1460
- 5) DFT study of $\text{NH}_3(\text{H}_2\text{O})_{n=0,1,2,3}$ complex adsorption on the (8,0) Single-Walled Carbon Nanotube
Bahram B. Shirvani, **Javad Beheshtian**, Nasser L. Hadipour
Computational Materials Science, 48 (2010) 655-657
- 6) Theoretical Study of Nonadditive Effects in the Linear (Urea) $_{2-10}$ Clusters
Mehdi D. Esrafil, **Javad Beheshtian**, Nasser L. Hadipour,
International Journal of Quantum Chemistry, 111 (2011), 3184-3195
- 7) A computational study of water adsorption on boron nitride nanotube
Javad Beheshtian, Hadi Behzadi, Mehdi Esrafil, Bahram Shirvani and Nasser L. Hadipour,
Structural Chemistry, 21 (2010) 903-908
- 8) Photo-oxidation of Phenylazonaphthol Dyes and their Reactivity Analysis in the Gas Phase and Adsorbed on Cellulose Fibers States Using DFT and TD-DFT
Farzaneh Zanjanchi , Nasser Hadipour, Hassan Sabzyan, **Javad Beheshtian**
Dyes and Pigments, 89 (2011) 16-22
- 9) DFT Study of CH_4 Adsorption on the (5,0), (4,4), (5,5) and (6,6) Single-Walled Carbon Nanotubes. Calculated Binding Energies, NMR and NQR Parameters
B.B. Shirvani, M.B. Shirvani, **Javad Beheshtian**, N.L. Hadipour
J. Iran. Chem. Soc., 8 (2011) 110-118
- 10) Chemisorption of NH_3 at the open ends of boron nitride nanotubes: a DFT study
Ali Ahmadi, **Javad Beheshtian**, Nasser Hadipour
Structural Chemistry, 22 (2011) 183-188
- 11) The effect of surface curvature of aluminum nitride nanotubes on the adsorption of NH_3
Ali Ahmadi, Mohammad Kamfiroozi, **Javad Beheshtian**, Nasser L. Hadipour
Structural Chemistry, 22 (2011) 1261–1265
- 12) Interaction of NH_3 with aluminum nitride nanotube: Electrostatic vs.covalent A The H_2 dissociation on the BN, AlN, BP and AlP nanotubes: a comparative study
Ali Ahmadi, **JavadBeheshtian**, NasserL.Hadipour
Physica E, 43 (2011) 1717–1719
- 13) Computational study of CO and NO adsorption on magnesium oxide nanotubes
Javad Beheshtian, MohammadKamfiroozi, ZarghamBagheri, AliAhmadi
Physica E, 44 (2011) 546–549

- 14) Toxic CO detection by B₁₂N₁₂ nanocluster
Javad Beheshtian, Hamed Soleymanabadi, MohammadKamfiroozi, AliAhmadi
Microelectronics Journal, 42 (2011) 1400–1403
- 15) Theoretical study of hydrogen adsorption on the B₁₂P₁₂ fullerene-like nanocluster"
Javad Beheshtian, Zargham Bagher, MohammadKamfiroozii, AliAhmadi
Computational Materials Science, 54 (2012) 115–118
- 16) B₁₂N₁₂ nano-cage as a potential sensor for the NO₂ detection
Javad Beheshtian, Zargham Bagher, MohammadKamfiroozii, AliAhmadi
Chinese Journal of Chemical Physics, 25 (2012) 60-64
- 17) Theoretical study of CO adsorption on the surface of BN, AlN, BP and AlP nanotubes
Javad Beheshtian, Mohammad T. Baei, Ali Ahmadi Peyghan
Surface Science, 606 (2012) 981–985
- 18) A theoretical study of CO adsorption on aluminum nitride nanotubes
Javad Beheshtian, Zargham Bagher, MohammadKamfiroozii, AliAhmadi
Structural Chemistry, (2012) DOI 10.1007/s11224-011-9911-z
- 19) The H₂ dissociation on the BN, AlN, BP and AlP nanotubes: a comparative study
Javad Beheshtian, Hamed Soleymanabadi, Mohammad Kamfiroozi, Ali Ahmadi
J Mol Model (2012). DOI 10.1007/s00894-011-1256-4
- 20) Nitrate adsorption by carbon nanotubes in the vacuum and aqueous phase
Javad Beheshtian, Ali Ahmadi Peyghan, Zargham Bagheri
Monatsh Chem (2012) DOI 10.1007/s00706-012-0738-0
- 21) Benchmarking of ONIOM method for the study of NH₃ dissociation at open ends of BNNTs
Ali Ahmadi, **Javad Beheshtian**, Mohammad Kamfiro
J Mol Model, (2012) DOI 10.1007/s00894-011-1202-5.
- 22) A comparative study on the B₁₂N₁₂, Al₁₂N₁₂, B₁₂P₁₂ and Al₁₂P₁₂ fullerene-like cages
Javad Beheshtian, Zargham Bagher, Mohammad Kamfiroozii, Ali Ahmadi
J Mol Model (2012) DOI 10.1007/s00894-011-1286
- 23) Interaction of small molecules (NO, H₂, N₂, and CH₄) with BN nanocluster surface
Javad Beheshtian, Ali Ahmadi Peyghan, Zargham Bagheri, Mohammad Kamfiroozi
Struct Chem (2012) DOI 10.1007/s11224-012-9970-9
- 24) Induced polarization and electronic properties of carbon doped boron-nitride nanoribbons
Javad Beheshtian, A. Sadeghi, M. Neek-Amal, K. Michele and F. M. Peeters
PHYSICAL REVIEW B (2012) DOI 10.1103/PhysRevB.86.195433
- 25) AlN nanotube as a potential electronic sensor for nitrogen dioxide
Javad Beheshtian, Mohammad T. Baei, Zargham Bagher, AliAhmadi
Microelectronics Journal (2012) DOI 10.1016/j.mejo.2012.04.002
- 26) Co-adsorption of CO molecules at the open ends of MgO nanotubes
Javad Beheshtian, Mohammad T. Baei, Zargham Bagher, AliAhmadi
Struct Chem (2012) DOI 10.1007/s11224-012-0021-3
- 27) The Alkali Metal Interactions with MgO Nanotubes
Javad Beheshtian, Ali Ahmadi, Zargham Bagher, MohammadKamfiroozii
Bull. Korean Chem. Soc (2012) DOI 10.5012/bkcs.2012.33.6.1925
- 28) Selective function of Al₁₂N₁₂ nano-cage towards NO and CO molecules
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Computational Materials Science (2012) DOI 10.1016/j.commatsci.2012.05.041
- 29) Adsorption and dissociation of Cl₂ molecule on ZnO nanocluster
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Applied Surface Science (2012) DOI 10.1016/j.apsusc.2012.05.016

- 30) Theoretical investigation of C60fullerene functionalization with tetrazine
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Computational and Theoretical Chemistry (2012) DOI 10.1016/j.comptc.2012.05.039
- 31) A first-principles study of H₂S adsorption and dissociation on the AlN nanotube
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Physica E (2012) DOI 10.1016/j.physe.2012.06.003
- 32) Detection of phosgene by Sc-doped BN nanotubes: A DFT study
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Sensors and Actuators B: Chemical (2012) DOI 10.1016/j.snb.2012.05.082
- 33) Quantum chemical study of fluorinated AlN nano-cage
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Applied Surface Science (2012) DOI 10.1016/j.apsusc.2012.07.088
- 34) Functionalization of [60] fullerene with butadienes: A DFT study
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Applied Surface Science (2012) DOI 10.1016/j.apsusc.2012.05.134
- 35) Ab initio study of NH₃ and H₂O adsorption on pristine and Na-doped MgO nanotubes.
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Struct Chem (2012) DOI 10.1007/s11224-012-0047-6
- 36) Interaction of small molecules (NO, H₂, N₂, and CH₄) with BN nanocluster surface
Javad Beheshtian, Ali Ahmadi, Zargham Bagher, MohammadKamfiroozii
Struct Chem (2012) DOI 10.1007/s11224-012-9970-9
- 37) Hydrogen dissociation on diene-functionalized carbon nanotubes
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
J Mol Model (2012) DOI 10.1007/s00894-012-1542-9
- 38) Carbon nanotube functionalization with carboxylic derivatives: a DFT study
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
J Mol Model (2012) DOI 10.1007/s00894-012-1569-y
- 39) Nitrous oxide adsorption on pristine and Si-doped AlN nanotubes
Javad Beheshtian, Mohammad T. Baei, Zargham Bagher, AliAhmadi
J Mol Model (2012) DOI 10.1007/s00894-012-1634-6
- 40) Arsenic interactions with a fullerene-like BN cage in the vacuum and aqueous phase
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
J Mol Model (2012) DOI 10.1007/s00894-012-1626-6
- 41) Carbon nitride nanotube as a sensor for alkali and alkaline earth cations
Javad Beheshtian, Mohammad T. Baei, Zargham Bagher, AliAhmadi
Applied Surface Science (2012) DOI 10.1016/j.apsusc.2012.10.100
- 42) Adsorption of Na, Mg, and Al atoms on BN nanotubes
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Thin Solid Films (2012) DOI 10.1016/j.tsf.2012.11.021
- 43) DFT study on the functionalization of a BN nanotube with sulfamide
Javad Beheshtian, Mohammad Bigdeli, Zargham Bagheri, Ali Ahmadi Peyghan
Applied Surface Science (2012) DOI 10.1016/j.apsusc.2012.11.128
- 44) Exohedral and endohedral adsorption of alkaline earth cations in BN nanocluster
Javad Beheshtian, Mohammad Bigdeli, Zargham Bagheri, Ali Ahmadi Peyghan
J Mol Model (2012) DOI 10.1007/s00894-012-1702-y
- 45) Formaldehyde adsorption on the interior and exterior surfaces of CN nanotubes
Javad Beheshtian, Ali Ahmadi, Zargham Bagheric
Struct Chem (2012) DOI 10.1007/s11224-012-0172-2

46) Sensing behavior of Al-rich AlN nanotube toward hydrogen cyanide

Javad Beheshtian, Ali Ahmadi, Zargham Bagheric

J Mol Mod (2012) DOI 10.1007/s00894-012-1751-2

47) A DFT study on the functionalization of a BN nanosheet with PC X, (PC = phenylcarbamate, X = OCH₃, CH₃, NH₂, NO₂ and CN

Javad Beheshtian, Hamed oleymanabadib, Ali Ahmadi Peyghan., Zargham Bagheri

Applied Surface Science (2012) DOI 10.1016/j.apsusc.2012.12.119

48) Functionalization of BN nanosheet with N₂H₄ may be feasible in the presence of Stone–Wales defect

Javad Beheshtian, Ali Ahmadi, Zargham Bagheric

Struct Chem (2012) DOI 10.1007/s11224-012-0189-6

49) Spiral graphone and one-sided fluorographene nanoribbons

M. Neek-Amal, **J. Beheshtian**, F. Shayeganfar, S. K. Singh, J. H. Los, F. M. Peeters

PHYSICAL REVIEW B (2013) DOI 10.1103/PhysRevB.87.075448

50) Sensing behavior of Al and Si doped BC₃ graphenes to formaldehyde

Javad Beheshtian, Ali Ahmadi Peyghan, M. Noei

Sensors and Actuators B: Chemical (2013) DOI 10.1016/j.snb.2013.02.086

51) Ammonia monitoring by carbon nitride nanotubes: A density functional study

Javad Beheshtian, Maziar Noei, H. Soleymanabadi, Ali Ahmadi

Thin Solid Films (2013) DOI 10.1016/j.tsf.2013.03.033

52) Theoretical investigation of azo dyes adsorbed on cellulose fibers: 1 .Electronic and bonding structures

Farzaneh Zanjanchi, Nasser L. Hadipour, Hassan Sabzyan, **Javad Beheshtian**

J IRAN CHEM SOC (2013) DOI 10.1007/s13738-013-0236-2

53) Theoretical study on the functionalization of BC₂N nanotube with amino groups

Javad Beheshtian, Ali Ahmadi Peyghan

J Mol Mod (2013) DOI 10.1007/s00894-013-1759-2

54) Theoretical investigation of azo dyes adsorbed on cellulose fibers: 2. Spectroscopic study

Farzaneh Zanjanchi, Nasser L. Hadipour, Hassan Sabzyanm, **Javad Beheshtian**

J IRAN CHEM SOC (2013) DOI 10.1007/s13738-013-0281-x

55) Boron Nitride Monolayer: A Strain-Tunable Nanosensor

M. Neek-Amal, **J. Beheshtian**, A. Sadeghi, K. H. Michel, F. M. Peeters

Phys. Chem. C (2013) DOI 10.1021/jp402122c

56) Computational study of ammonia adsorption on the perfect and rippled graphene sheet

S.M.Seyed-Talebi, **Javad Beheshtian**

Physica B (2013) DOI 10.1016/j.physb.2013.08.001

57) Doping effect on the adsorption of NH₃ molecule onto graphene quantum dot: From the physisorption to the chemisorption

S. M. Seyed-Talebi, **J. Beheshtian**, M. Neek-amal

JOURNAL OF APPLIED PHYSICS (2013) DOI 10.1063/1.4822165

58) Synthesis, identification, crystal structure and theoretical study of a Ce(IV) complex

M. Ghadermazi, N. Kakaei, F. Manteghi, **J. Beheshtian**

J IRAN CHEM SOC (2013) DOI 10.1007/s13738-014-0411-0

59) Density-functional calculations of HCN adsorption on the pristine and Si-doped graphynes

Javad Beheshtian, Ali Ahmadi Peyghan, Zargham Bagheri, Mohammad Bigdeli Tabar

Struct Chem (2013) DOI 10.1007/s11224-013-0230-4

60) Experimental and theoretical study of CO adsorption on the surface of single phase hexagonally plate ZnO

Amin Akbari, Azam Anaraki Firooz, **Javad Beheshtian**, Abbas Ali Khodadadi
Applied Surface Science (2014) DOI 10.1016/j.apsusc.2014.07.034

61) Theoretical investigation of azo dyes adsorbed on cellulose fibers: 2. Spectroscopic study
 Farzaneh Zanjanchi, Nasser L. Hadipour, Hassan Sabzyan, **Javad Beheshtian**
J IRAN CHEM SOC (2014) DOI 10.1007/s13738-013-0281-x

62) Preparation of uniform 2D ZnO nanostructures by the ionic liquid-assisted sonochemical method and their optical properties
 Maryam Sabbaghann, **Javad Beheshtian**, Seyed Ali Mohammad Mirsaedi
Ceramics International (2014) DOI 10.1016/j.ceramint.2013.12.119

63) Highly active Fe₂O₃-doped TiO₂ photocatalyst for degradation of trichloroethylene in air under UV and visible light irradiation: Experimental and computational studies
 Alireza Banisharif, Abbas Ali Khodadadi, Yadollah Mortazavi, Azam Anaraki Firooz, **Javad Beheshtian**, Shaghayegh Agah, Sadra Menbari
Applied Catalysis B: Environmental (2015) DOI 10.1016/j.apcatb.2014.10.023

64) Preparation of Cu₂O nanostructures by changing reducing agent and their optical properties
 Maryam Sabbaghan, **Javad Beheshtian**, Rasoul Niazmand Liarjdame
Materials Letters (2015) DOI 10.1016/j.matlet.2015.03.147

65) Microporous titania–silica nanocomposite catalyst-adsorbent for ultra-deep oxidative desulfurization
 Amin Bazyaria, Abbas A. Khodadadia, Alireza Haghighat Mamaghania,
Javad Beheshtianb, Levi T. Thompsonc, Yadollah Mortazavia
Applied Catalysis B: Environmental (2016) DOI 10.1016/j.apcatb.2015.06.011

66) Graphene-silicene bilayer: A nanocapacitor with permanent dipole and piezoelectricity effect
 F. Peymanirad, M. Neek-Amal, **J. Beheshtian**
PHYSICAL REVIEW B (2015) DOI 10.1103/PhysRevB.92.155113

67) Theoretical prediction of silicene as a new candidate for the anode of lithium-ion batteries
 Seyedeh Mozghan Seyed-Talebi, Iraj Kazeminezhada, **Javad Beheshtian**
Phys. Chem. Chem. Phys. (2015) DOI 10.1039/c5cp04666a

68) Highly sensitive and selective ethanol and acetone gas sensors by adding some dopants (Mn, Fe, Co, Ni) onto hexagonal ZnO plates
 Mohammad Hossein Darvishnejad, Azam Anaraki Firooz, **Javad Beheshtian**, Abbas Ali Khodadadi
RSC Adv., 2016, 6, 7838, DOI: 10.1039/c5ra24169c

69) Hydrogen storage by BeO nano-cage: A DFT study
Javad Beheshtian, Isa Ravaei
Applied Surface Science, 368 (2016) 76–81, DOI: 10.1016/j.apsusc.2016.01.239

70) Selective separation behavior of graphene flakes in interaction with halide anions in the presence of an external electric field
 E. Farajpour, B. Sohrabi, **J. Beheshtian**
Phys. Chem. Chem. Phys. DOI: 10.1039/c5cp07710a

71) Van der Waals pressure and its effect on trapped interlayer molecules
 K.S. Vasu, E. Prestat, J. Abraham, J. Dix, R.J. Kashtiban, **J. Beheshtian**, J. Sloan, P.,
NATURE COMMUNICATIONS (2016) 7, DOI:10.1038/ncomms12168

72) Electrochemical and DFT study of an anticancer and active anthelmintic drug at carbon nanostructured modified electrode
 M Ghalkhani, **J Beheshtian**, M Salehi
Materials Science and Engineering: C 69, 1345-1353

- 73) Electro-and opto-mutable properties of MgO nanoclusters adsorbed on mono-and double-layer graphene
F Shayeganfar, **J Beheshtian**, M Neek-Amal, R Shahsavari
Nanoscale 9 (12), 4205-4218
- 74) Reversible structural transition in nanoconfined ice
V Satarifard, M Mousaei, F Hadadi, James Dix, M Sobrino Fernandez, P Carbone, **J Beheshtian**, FM Peeters, M Neek-Amal
Physical Review B 95 (6), 064105
- 75) Synthesis of undoped and Fe nanoparticles doped SnO₂ nanostructure: study of structural, optical and electrocatalytic properties
M Ghalkhani, **J Beheshtian**, AA Firooz
Journal of Materials Science: Materials in Electronics 28 (11), 7568-7574
- 76) Voltammetric Sensor Based on Fe-doped ZnO and TiO₂ Nanostructures-modified Carbon-paste Electrode for Determination of Levodopa
AA Firooz, BH Nia, **J Beheshtian**, M Ghalkhani
Journal of Electronic Materials 46 (10), 5657-5663
- 77) Effects of functionalization and side defects on single-photon emission in boron nitride quantum dots
F Shayeganfar, MRR Tabar, A Simchi, **J Beheshtian**
Physical Review B 96 (16), 165307
- 78) A Theoretical Model Based on Modified Fullerenes for Photodynamic Therapy of Cancer
L Saedi, H Simchi, M Esmailzadeh, **J Beheshtian**
Journal of Computational and Theoretical Nanoscience 15 (1), 147-152
- 79) Ultrasonic route synthesis, characterization and electrochemical study of graphene oxide and reduced graphene oxide
M Sabbaghan, H Charkhan, M Ghalkhani, **J Beheshtian**
Research on Chemical Intermediates, 1-19
- 80) DFT studies of functionalized carbon nanotubes as nanoadsorbent of a benzimidazole fungicide compound
M Ghalkhani, M Salehi, **J Beheshtian**
Journal of Mathematical Nanoscience 8 (1), 13-18
- 81) Natural pigments in dye-sensitized solar cell (DSSC): a DFT-TDDFT study
F Zanjanchi, **J Beheshtian**
Journal of the Iranian Chemical Society, 1-11
- 82) Experimental and Theoretical Study of Enhanced Photocatalytic Activity of Mg- Doped ZnO NPs and ZnO/rGO Nanocomposites
R Yousefi, **J Beheshtian**, SM Seyed- Talebi, HR Azimi, F Jamali- Sheini
Chemistry–An Asian Journal 13 (2), 194-203
- 83) Toxic CO detection by Li-encapsulated fullerene-like BeO
J Beheshtian, I Ravaei
Structural Chemistry 29 (1), 231-241
- 84) Effect of nitrogen doping on electronic and optical properties of ZnO sheet: DFT+ U study
SS Parhizgar, **J Beheshtian**
Computational Condensed Matter 15, 1-6
- 85) First-Principles Study of Water Nanotubes Captured Inside Carbon/Boron Nitride Nanotubes
F Shayeganfar, **J Beheshtian**, R Shahsavari
Langmuir 34 (37), 11176-11187

Honours

- 1st rank in the BSc degree in Pure Chemistry , Birjand University, Birjand, Iran, 1997-1999
- 1st rank in the MSc degree in the field of Physical Chemistry, Tarbiat Modares University, 1999-2001
- 1st rank in the Ph. D entrance exam, 2005
- Elected member at national intelligent center for science and technology, Tehran, Iran, 2010

Proceedings

- 1) Theoretical Study of Water Adsorption and Reactivity on Single-Walled Carbon Nanotube
2 th International Conference of Nanosciences & Nanotechnology (ICNN) (2008), Iran
- 2) Chemisorption of Hydrogen on the Zigzag Boron-Nitride Nanotubes: A Density Functional Study
5th Nanotechnology students conference (2009), Iran
- 3) Chemisorption of Hydrogen on the Armchair Boron-Nitride Nanotubes: A Density Functional Study
12th Seminar of Physical Chemistry (2009), Iran
- 4) A computational study of ammonia adsorption on boron nitride nanotube
12th Seminar of Mathematic-Chemistry (2010), Iran
- 5) Study of electronic properties of the carbon and silicon doping in zigzag boron nitride nanotube
3rd International Conference on Ultrafine Grained and Nanostructured Materials Center of Excellence For High Performance Materials School of Metallurgy and Materials Engineering, University College of Engineering, University of Tehran, Tehran,. 2-3 November (2011) Iran

Teaching activities

Undergraduate courses are taught:

General Chemistry, Physical Chemistry I and II, Molecular Spectroscopy, and Quantum chemistry I

graduate courses are taught:

Quantum chemistry II, Statistical thermodynamics, Chemical kinetic

Dr. Javad Beheshtian

Associate Professor

Shahid Rajaee University

Lavizan -Tehran, Iran

Email: j.beheshtian@srttu.edu, j.beheshtian@gmail.com

https://scholar.google.com/citations?hl=en&user=VH7s-5gAAAAJ&view_op=list_works&sortby=pubdate