Curriculum Vitae



Personal Data

Name: Mohsen

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Education

- Ph. D., Physical Chemistry, June 2006, Ferdowsi University, Mashhad, Iran
- M. S., Physical Chemistry, September 2000, Ferdowsi University, Mashhad, Iran
- B. S., Chemistry, July 1998, Ferdowsi University, Mashhad, Iran

Affiliation

Associated professor of Hakim Sabzevari University

Research Interests

- •MD Simulations of nano systems
- Intermolecular potentials
- Transport properties
- •MD Simulations of solids, liquids, and gases
- Surface chemistry

Courses Tought

- 1. General Chemistry 1 & 2
- 2. Physical Chemistry 1 & 2
- 3. Surface Chemistry
- **4.** Advanced chemical kinetics
- 5. Advanced Physical Chemistry
- **6.** Statistical Thermodynamics

Awards

- 1. Selection of 6th Ferdowsi Festival, Ferdowsi University of Mashhad, 2007.
- 2. Selection of premier researchers of Hakim Sabzevari University, 2009.
- 3. Selection of premier researchers of Hakim Sabzevari University, 2017.

Publications

Papers

Thermal stability and melting mechanism of diamond nanothreads: Insight from molecular dynamics simulation

M Eidani, H Akbarzadeh, E Mehrjouei, M Abbaspour, S Salemi, ...

Colloids and Surfaces A: Physicochemical and Engineering Aspects 655, 130248

Formation of methane clathrates into fullerene: A molecular dynamics study

M Abbaspour, H Akbarzadeh, S Salemi, SF Tahami Journal of Molecular Liquids 367, 120587

Yolk-shell nanoparticles with different cores: A molecular dynamics study

S Ramezanzadeh, H Akbarzadeh, E Mehrjouei, AN Shamkhali, ...

Colloids and Surfaces A: Physicochemical and Engineering Aspects 653, 130019

Molecular insight into C60-grafted graphene oxide as a novel reverse osmosis membrane with low energy consumption for seawater desalination

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T Ranjbar, H Akbarzadeh, E Mehrjouei, M Abbaspour, S Salemi, ...

Desalination 542, 116062

Thermal behavior of different types of Au-Pt-Pd nanoparticles: Dumbbell-like, three-shell, core-shell, and random-alloy

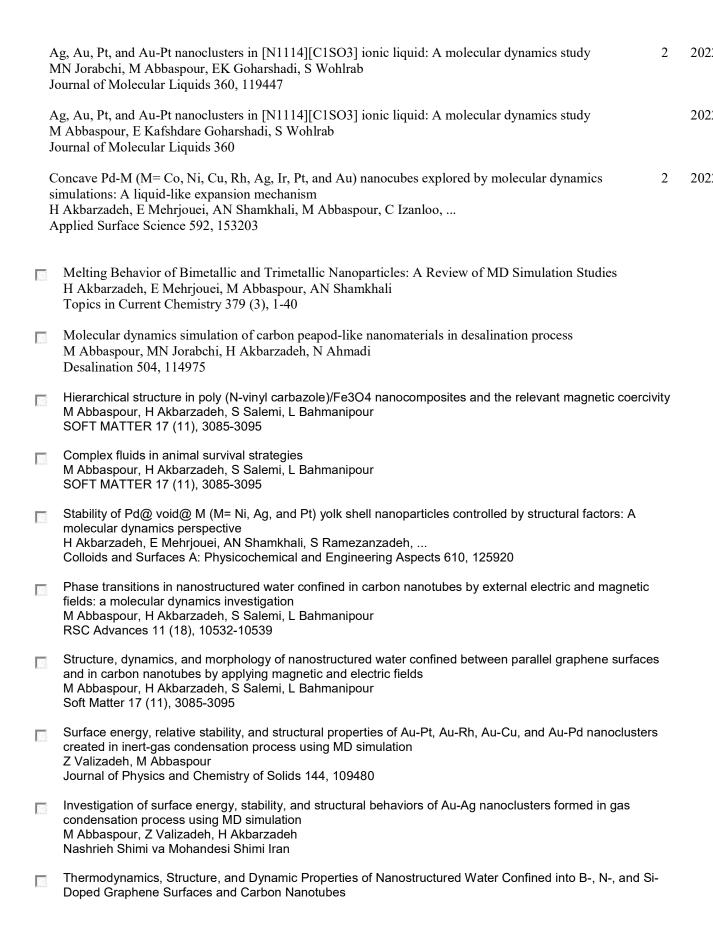
H Akbarzadeh, E Mehrjouei, M Abbaspour, S Salemi, H Yaghoubi, ...

Materials Chemistry and Physics, 126955

Ball-Cup, Janus, core-shell and disordered-alloy rhodium-gold nanoparticles: An atomistic simulation on structural stability

H Akbarzadeh, E Mehrjouei, M Abbaspour, S Salemi, H Yaghoubi, ...

Colloids and Surfaces A: Physicochemical and Engineering Aspects 651, 129658



	M Abbaspour, H Akbarzadeh, S Zaeifi Industrial & Engineering Chemistry Research 59 (20), 9642-9654
	Molecular dynamics simulation of anticancer drug delivery from carbon nanotube using metal nanowires M Abbaspour, M Namayandeh Jorabchi, H Akbarzadeh, S Salemi, Journal of computational chemistry 40 (25), 2179-2190
	Investigation of temperature and pressure effects on thermodynamics and structural properties of gold nanoparticles formed during the gas condensation procedure S Lotfi, M Abbaspour Journal of Molecular Liquids 281, 39-47
	A comparative study of graphite and CNT supported Au-Ag, Au-Pd, Au-Pt and Au-Rh nanoalloys using MD simulation P Yousefi, M Abbaspour, V Sokhanvaran Journal of Molecular Liquids 280, 87-96
	Nucleation, coalescence, thermal evolution, and statistical probability of formation of Au/Ir/Pd nanoalloys in gas-phase condensation process M Abbaspour, Z Valizadeh, MN Jorabchi Journal of Molecular Liquids 274, 434-446
	Investigation of possible formation of Au@ M (M= Cu, Ir, Pt, and Rh) core–shell nanoclusters in a condensation–coalescence process using molecular dynamics simulations M Abbaspour, H Akbarzadeh, S Salemi, S Lotfi Industrial & Engineering Chemistry Research 57 (43), 14837-14845
	Icosahedral Ir, Rh, Pt, and Cu nanoclusters into gold vapor environment: Thermodynamic and structural analysis of the formed core@ shell nanoclusters using MD simulations M Abbaspour, H Akbarzadeh, S Lotfi Journal of Alloys and Compounds 764, 323-332
E	Investigation of different effects on the capacity of supercapacitor comprising an ionic liquid between graphene oxide nanosheets M Nasimi, H Akbarzadeh, M Abbaspour, S Salemi, V Sokhanvaran, Journal of Molecular Liquids 266, 658-672
E.	Unexpected trend for thermodynamic stability of Au@ void@ AgAu yolk-shell nanoparticles: A molecular dynamics study H Akbarzadeh, E Mehrjouei, AN Shamkhali, M Abbaspour, S Salemi, Applied Surface Science 447, 648-655
E	Pt–Co nanocluster in hollow carbon nanospheres H Akbarzadeh, M Abbaspour, E Mehrjouei, S Ramezanzadeh Journal of computational chemistry 39 (19), 1267-1274
	Stability Control of AgPd@ Pt Trimetallic Nanoparticles via Ag–Pd Core Structure and Composition: A Molecular Dynamics Study H Akbarzadeh, M Abbaspour, E Mehrjouei, M Kamrani Industrial & Engineering Chemistry Research 57 (18), 6236-6245
	Investigation on electrochemical properties of polythiophene nanocomposite with graphite derivatives as supercapacitor material on breath figure-decorated PMMA electrode M Azimi, M Abbaspour, A Fazli, H Setoodeh, B Pourabbas Journal of Electronic Materials 47 (3), 2093-2102
M	Molecular dynamics simulation of liquid water and ice nanoclusters using a new effective HFD-like model M Abbaspour, H Akbarzadeh, S Salemi, K Pirfalak Journal of computational chemistry 39 (5), 269-278

E	Some properties of solid helium and helium nanoclusters using the effective HFD-like interaction potential: Adsorption and desorption inside carbon nanotube M Abbaspour, H Akbarzadeh, SZ Banihashemi, A Sotoudeh Physica A: Statistical Mechanics and its Applications 491, 219-232
	Thermodynamic, structural, and dynamical properties of nano-confined water using SPC/E and TIP4P models by molecular dynamics simulations E Jalalitalab, M Abbaspour, H Akbarzadeh New Journal of Chemistry 42 (19), 16258-16272
B	Ag–Au nanoparticles encapsulated inside porous hollow carbon nanospheres: a molecular dynamics study H Akbarzadeh, M Abbaspour, E Mehrjouei, S Ramezanzadeh New Journal of Chemistry 42 (16), 13619-13628
E	Au–Fe nanoparticles visited by MD simulation: structural and thermodynamic properties affected by chemical composition H Akbarzadeh, E Mehrjouei, AN Shamkhali, M Abbaspour, S Salemi, New Journal of Chemistry 42 (12), 9666-9675
E	Au–Ir nanoalloy nucleation during the gas-phase condensation: a comprehensive MD study including different effects M Abbaspour, H Akbarzadeh, Z Valizadeh Inorganic Chemistry Frontiers 5 (6), 1445-1457
E.	Formation of methane clathrates in carbon nanotubes: a molecular dynamics study H Akbarzadeh, M Abbaspour, S Salemi, A Nazarian New Journal of Chemistry 42 (9), 7083-7095
	AgPd@ Pt nanoparticles with different morphologies of cuboctahedron, icosahedron, decahedron, octahedron, and Marks-decahedron: insights from atomistic simulations H Akbarzadeh, M Abbaspour, E Mehrjouei, M Kamrani Inorganic Chemistry Frontiers 5 (4), 870-878
E	Density-dependent phase transition in nano-confinement water using molecular dynamics simulation M Abbaspour, H Akbarzadeh, S Salemi, E Jalalitalab Journal of Molecular Liquids 250, 26-34
E	Effect of systematic addition of the third component on the melting characteristics and structural evolution of binary alloy nanoclusters H Akbarzadeh, M Abbaspour, E Mehrjouei Journal of Molecular Liquids 249, 412-419
E	Ag-Nanowire Diffusion into the Carbon Nanotube: an Efficient Method for Anti-Cancer Drug Release H Akbarzadeh, E Mehrjouei, M Abbaspour, S Salemi Nashrieh Shimi va Mohandesi Shimi Iran 36 (4), 189-199
	Coalescence process of gold/silver core-shell nanoparticles located on carbon nanotube and graphene surfaces H Akbarzadeh, M Abbaspour, S Salemi, M Hasani Journal of Molecular Liquids 248, 738-750
E	Structural evolution of Pt/Pd nanoparticles in condensation process H Akbarzadeh, M Abbaspour, E Mehrjouei, A Masoumi Journal of Molecular Liquids 248, 822-829
E	Injection of mixture of shale gases in a nanoscale pore of graphite and their displacement by CO2/N2 gases using molecular dynamics study H Akbarzadeh, M Abbaspour, S Salemi, M Akbari Journal of Molecular Liquids 248, 439-446

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	Investigation of solvation of iron nanoclusters in ionic liquid 1-butyl-1, 1, 1-trimethylammonium methane sulfonate using molecular dynamics simulations: Effect of cluster size M Abbaspour, H Akbarzadeh, P Yousefi, M Razmkhah Journal of colloid and interface science 504, 171-177
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	Effect of support on the coalescence between Ag@ Au nanoalloys using MD simulations H Akbarzadeh, M Abbaspour, S Salemi, M Hasani Journal of Molecular Liquids 244, 390-397
	Au@ Pt and Pt@ Au nanoalloys in the icosahedral and cuboctahedral structures: Which is more stable? H Akbarzadeh, M Abbaspour, E Mehrjouei Journal of Molecular Liquids 242, 1002-1017
	Dynamical investigation of formation of NiPt nanoclusters in gas phase H Akbarzadeh, M Abbaspour, A Masoumi, E Mehrjouei Journal of Molecular Liquids 240, 221-224
	Delivery of cisplatin anti-cancer drug from carbon, boron nitride, and silicon carbide nanotubes forced by Agnanowire: a comprehensive molecular dynamics study E Mehrjouei, H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi, Molecular pharmaceutics 14 (7), 2273-2284
	A comprehensive molecular dynamics investigation on confinement of PtnCum nanocluster inside carbon nanotubes H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi, Z Attaran Colloids and Surfaces A: Physicochemical and Engineering Aspects 522, 433-444
	Effect of pressure on some properties of Ag@ Pd and Pd@ Ag nanoclusters H Akbarzadeh, M Abbaspour Journal of Alloys and Compounds 703, 174-179
B	Different morphologies of aluminum nanoclusters: effect of pressure on solid-liquid phase transition of the nanoclusters using molecular dynamics simulations H Akbarzadeh, M Abbaspour Journal of Molecular Liquids 230, 20-23
	Effects of pressure, nanoalloy size, and nanoalloy mole fraction on melting of Ir-Rh nanoalloys using molecular dynamics simulations H Akbarzadeh, M Abbaspour Journal of Alloys and Compounds 694, 1287-1294
R	Effect of Pt addition to AgAu bimetallic nanoclusters: A molecular dynamics study of AgAuPt ternary system H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi, Z Hajizadeh Journal of Alloys and Compounds 692, 647-657
	New molecular insights into the stability of Ni–Pd hollow nanoparticles H Akbarzadeh, E Mehrjouei, AN Shamkhali, M Abbaspour, S Salemi, Inorganic Chemistry Frontiers 4 (10), 1679-1690

M	Competition between stability of icosahedral and cuboctahedral morphologies in bimetallic nanoalloys H Akbarzadeh, M Abbaspour, E Mehrjouei Physical Chemistry Chemical Physics 19 (22), 14659-14670
	AunPdm nanoclusters supported on bundles of nanotubes and graphite surface: A comprehensive molecular dynamics study H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi, E Khomarian Journal of Alloys and Compounds 687, 431-441
	Equation of state and some structural and dynamical properties of the confined Lennard-Jones fluid into carbon nanotube: A molecular dynamics study M Abbaspour, H Akbarzadeh, S Salemi, M Abroodi Physica A: Statistical Mechanics and its Applications 462, 1075-1090
	A modified thermodynamic insight to deliquescence of a void-containing nanocrystal confirmed by MD simulation H Akbarzadeh, M Abbaspour, S Salemi, A Masoumi, AN Shamkhali AIChE Journal 62 (11), 4066-4077
	Mo nanocluster under high pressure: A molecular dynamics study H Akbarzadeh, M Abbaspour Journal of Molecular Liquids 222, 648-655
E	Molecular dynamics simulation of noble gas adsorption on graphite: New effective potentials including many-body interactions M Abbaspour, H Akbarzadeh, S Salemi, M Sherafati Journal of Molecular Liquids 222, 915-922
E	Nanotube diameter dependency of anisotropic pressure of an ionic liquid confined in a carbon nanotube: A molecular dynamics study for [emim][PF6] case H Akbarzadeh, M Abbaspour, E Khomarian Journal of Molecular Liquids 220, 370-374
	Investigation of size dependence of the properties of Cu nanoclusters using molecular dynamics simulations H Akbarzadeh, M Abbaspour Journal of Molecular Liquids 219, 158-164
	Investigation of melting and freezing of Ag–Au alloy nanoclusters supported on carbon nanotube using molecular dynamics simulations H Akbarzadeh, M Abbaspour Journal of Molecular Liquids 216, 671-682
E	Investigation of thermal, structural and dynamical properties of (Au _x –Cuy–Niy) $N_{=32,\ 108,\ 256}$ ternary nanosystems: effect of Au addition to Cu–Ni bimetallic nanoclusters H Akbarzadeh, M Abbaspour, E Mehrjouei RSC advances
N	Phase transition in crown-jewel structured Au–Ir nanoalloys with different shapes: a molecular dynamics study H Akbarzadeh, M Abbaspour, E Mehrjouei Physical Chemistry Chemical Physics 18 (36), 25676-25686
	A comprehensive study of methane/carbon dioxide adsorptive selectivity in different bundle nanotubes H Akbarzadeh, M Abbaspour RSC advances 6 (74), 69845-69854
	A molecular dynamics study of the effect of the substrate on the thermodynamic properties of bound Pt–Cu bimetallic nanoclusters H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi, Z Attaran Physical Chemistry Chemical Physics 18 (31), 21730-21736

R	Investigation of thermal, structural and dynamical properties of (Au x–Cu y–Ni y) N= 32,108,256 ternary nanosystems: effect of Au addition to Cu–Ni bimetallic nanoclusters via H Akbarzadeh, M Abbaspour, E Mehrjouei RSC Advances 6 (72), 67619-67629
B	Propene adsorption on gold–palladium nanoalloys supported on bundle nanotubes H Akbarzadeh, M Abbaspour, E Khomarian RSC advances 6 (70), 66275-66287
	Properties of silver nanoclusters and bulk silver, using a new and accurate HFD-like potential, including many-body interactions: the inversion scheme and molecular dynamics M Abbaspour, H Akbarzadeh, S Salemi, A Sotoudeh RSC advances 6 (50), 43924-43936
	Carbon monoxide adsorption on the single-walled carbon nanotube supported gold–silver nanoalloys H Akbarzadeh, M Abbaspour, S Salemi New Journal of Chemistry 40 (1), 310-319
M	Effects of diameter and chirality on structural and dynamical behavior of [EMIM][PF6] encapsulated in carbon nanotube: A molecular dynamics study H Akbarzadeh, M Abbaspour Journal of Molecular Liquids 212, 423-429
	Effective potential for many-body interactions in some properties of the HFD-like solids M Abbaspour, A Farmanbar, Z Borzouie Physica A: Statistical Mechanics and its Applications 439, 20-33
Ed.	Investigation of Thermodynamic, Dynamic, and Structural Properties of H ₂ Adsorption on a Ag–Au Nanoalloy with a Carbon Nanotube Support H Akbarzadeh, M Abbaspour, S Salemi, M Dastoorani ChemPhysChem 16 (8), 1676-1682
	Molecular dynamics investigation on the deliquescence of NH ₄ Cl and NH ₄ NO ₃ nanoparticles under atmospheric conditions H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi
	AN EXPRESSION FOR THE RADIAL DISTRIBUTION FUNCTION OF LENNARD-JONES FLUID CONFINED INTO CARBON NANOTUBE M ABBASPOUR, M ABROODI
	A new and accurate expression for the radial distribution function of confined Lennard-Jones fluid in carbon nanotubes M Abbaspour, H Akbarzadeh, M Abroodi RSC advances 5 (116), 95781-95787
	Molecular dynamics investigation on the deliquescence of NH 4 Cl and NH 4 NO 3 nanoparticles under atmospheric conditions H Akbarzadeh, AN Shamkhali, M Abbaspour, S Salemi RSC Advances 5 (48), 38345-38353
	Investigation of thermal evolution of copper nanoclusters encapsulated in carbon nanotubes: a molecular dynamics study H Akbarzadeh, M Abbaspour, S Salemi, M Abroodi Physical Chemistry Chemical Physics 17 (19), 12747-12759
	Size dependence of the equation of state for Ne nanoclusters from an effective two-body potential via molecular dynamics simulations H Akbarzadeh, M Abbaspour RSC Advances 5 (15), 11297-11308

100	Investigation of the melting of ionic liquid [emim][PF 6] confined inside carbon nanotubes using molecular dynamics simulations H Akbarzadeh, M Abbaspour, S Salemi, S Abdollahzadeh RSC Advances 5 (5), 3868-3874
B	Accurate equations of state for CF4, CF4–Ar, and CF4–CH4 fluids using two-body and three-body intermolecular potentials from molecular dynamics simulation M Abbaspour, M Sheykh Journal of Fluorine Chemistry 168, 81-92
	Accurate melting temperatures for Ne nanoclusters and bulk from an effective two-body potential via molecular dynamics simulations M Abbaspour, H Akbarzadeh Fluid Phase Equilibria 381, 90-94
	Extended many-body potential of Hauschild and Prausnitz for pure HFD-like fluids M Abbaspour, N Naderkhovy Physica A: Statistical Mechanics and its Applications 413, 459-472
B	Equation of state, elastic constants, and melting curve of solid neon using an effective two-body potential including quantum corrections M Abbaspour, Z Borzouie Fluid Phase Equilibria 379, 167-174
	An extended expression for the radial distribution function of HFD-like fluid for investigation of many-body and quantum effects in some transport properties M Abbaspour, MN Jorabchi Journal of Molecular Liquids 195, 175-181
	New inversion and ab initio intermolecular potentials for supercritical fluorine: Calculation of some properties and MD simulation S Salemi, M Abbaspour, M Ghabdian The Journal of Supercritical Fluids 89, 119-127
	Investigation of Three-Body Interaction of Gas Adsorption on Graphite via Molecular Dynamics Simulation M Abbaspour, M Sherafati
	SIZE EFFECTS ON THE DELIQUESCENCE RELATIVE HUMIDITY OF NH 4 CL NANOPARTICLES: A MOLECULAR DYNAMICS STUDY M ABBASPOUR, A ZIYARATI
	AN EQUATION OF STATE FOR [EMIM][PF 6] CONFINED BETWEEN GRAPHITE WALLS VIA MOLECULAR DYNAMICS SIMULATION M ABBASPOUR, E KHOMARIAN, S ABDOLLAHZADEH
E	Many-body effects in some thermodynamic properties of supercritical CO2, CO2–Ar, and CO2–CH4 using HFD-like potentials from molecular dynamics simulation M Abbaspour, E Nameni The Journal of Supercritical Fluids 74, 61-69
	Some properties of fluid fluorine using new two-body and three-body ab initio potentials from molecular dynamics simulation M Abbaspour, M Ghabdian, Z Borzouie
	Calculation of some properties of solid neon using a many-body and quantum corrected HFD-like potential form molecular dynamics simulation M Abbaspour, Z Borzouie

RE.	Many-body and quantum effects in some thermodynamic properties and infinite shear modulus of HFD-like fluid using the radial distribution function M Abbaspour, A Keyvanloo Journal of Molecular Liquids 177, 1-6
E	Some thermodynamic properties of fluids SF6, SF6–Ar, and SF6–Kr using new HFD-like potentials including three-body interactions: The inversion method and molecular dynamics M Abbaspour, SN Borj Fluid phase equilibria 333, 1-12
	Some thermodynamics and transport properties and new equation of state for fluid hydrogen using a new intermolecular potential M Abbaspour, S Shakehnia Journal of Molecular Liquids 170, 51-60
	Many-body and quantum effects in the surface tension and surface energy of liquid neon and argon using the Fowler's approximation M Abbaspour Chemical Physics 392 (1), 107-113
	Transport, thermodynamic, and structural properties of fluid ammonia using a new intermolecular potential: The inversion method and molecular dynamics simulation M Abbaspour Chemical Physics 389 (1-3), 121-127
E	Computation of some thermodynamics, transport, structural properties, and new equation of state for fluid methane using two-body and three-body intermolecular potentials from M Abbaspour Journal of Molecular Liquids 161 (1), 30-35
	Computation of some thermodynamic, structural, and transport properties of fluid oxygen using two-body and three-body intermolecular potentials from molecular dynamics simulation H Ghahremani, M Abbaspour Chemical Physics 377 (1-3), 115-122
E	Computation of some thermodynamics, transport, structural properties, and new equation of state for fluid neon using a new intermolecular potential from molecular dynamics M Abbaspour, EK Goharshadi Theoretical Chemistry Accounts 127 (5), 573-585
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E	Computation of some thermodynamic properties of nitrogen using a new intermolecular potential from molecular dynamics simulation EK Goharshadi, M Abbaspour, MN Jorabchi, M Nahali Chemical Physics 358 (3), 185-195
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E	Determination of potential energy functions of CO–CO, CO2–CO2, and N2O–N2O and calculation of their transport properties M Abbaspour, EK Goharshadi Chemical physics 330 (1-2), 313-325

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8	Determination of potential energy functions and calculation transport properties of oxygen and nitric oxide via the inversion of reduced viscosity collision integrals at zero M Abbaspour, EK Goharshadi, JS Emampour Chemical physics 326 (2-3), 620-630
R	Molecular dynamics simulation of argon, krypton, and xenon using two-body and three-body intermolecular potentials EK Goharshadi, M Abbaspour Journal of chemical theory and computation 2 (4), 920-926
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R.	New regularities and an equation of state for liquids EK Goharshadi, A Morsali, M Abbaspour Fluid phase equilibria 230 (1-2), 170-175
R	Diatomic potential energy function for helium EK Goharshadi, M Abbaspour NISCAIR-CSIR, India
	Determination of potential energy function of methane via the inversion of reduced viscosity collision integrals at zero pressure EK Goharshadi, M Abbaspour Fluid phase equilibria 212 (1-2), 53-65
177	Determination of the Potential Energy Function of CF ₄ –CF ₄ via the Inversion of Reduced Viscosity Collision Integrals at Zero Pressure EK Goharshadi, M Abbaspour, A Morsali Industrial & engineering chemistry research 42 (10), 2256-2261
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- 6. M. Abbaspour and E. K. Goharshadi "Molecular Dynamics Simulation of Xenon using Two-body and Three-body interactions". The 8th Iranian Conference of Physical Chemistry, Mashad, Iran (2005).
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- **8.** M. Abbaspour "Molecular dynamics simulation of fluid methane using two-body and three-body intermolecular potentials". The 14th Iranian Conference of Physical Chemistry, Kish, Iran (2011).
- **9.** M. Abbaspour, E. Nameni "Many-body effects in some thermodynamic properties of supercritical CO2, CO2–Ar, and CO2–CH4 from molecular dynamics simulation". The 15th Iranian Conference of Physical Chemistry, Tehran, Iran (2012).
- **10.** M. Abbaspour, Z. Borzouie "Calculation of some properties of solid neon using a many-body and quantum corrected HFD-like potential form molecular dynamics simulation". The 16th Iranian Conference of Physical Chemistry, Babolsar, Iran (2013).
- **11.** M. Abbaspour, A. Ziyarati "Size Effects on the Deliquescence Relative Humidity of NH4Cl Nanoparticles: a Molecular Dynamics Study". The 17th Iranian Conference of Physical Chemistry, Khajeh Nasir Univ., Iran (2014).