

# Mohsen Abbaspour

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

576

citations

13

h-index

18

g-index

67

ext. papers

684

ext. citations

4.2

avg, IF

4.37

L-index

#	Paper	IF	Citations
66	An accurate expression for radial distribution function of the Lennard-Jones fluid. <i>Chemical Physics</i> , <b>2005</b> , 310, 11-15	2.3	36
65	Molecular Dynamics Simulation of Argon, Krypton, and Xenon Using Two-Body and Three-Body Intermolecular Potentials. <i>Journal of Chemical Theory and Computation</i> , <b>2006</b> , 2, 920-6	6.4	28
64	Investigation of thermal evolution of copper nanoclusters encapsulated in carbon nanotubes: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 12747-59	3.6	27
63	Investigation of the melting of ionic liquid [emim][PF <sub>6</sub> ] confined inside carbon nanotubes using molecular dynamics simulations. <i>RSC Advances</i> , <b>2015</b> , 5, 3868-3874	3.7	27
62	Delivery of Cisplatin Anti-Cancer Drug from Carbon, Boron Nitride, and Silicon Carbide Nanotubes Forced by Ag-Nanowire: A Comprehensive Molecular Dynamics Study. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 2273-2284	5.6	23
61	Computation of some thermodynamics, transport, structural properties, and new equation of state for fluid neon using a new intermolecular potential from molecular dynamics simulation. <i>Theoretical Chemistry Accounts</i> , <b>2010</b> , 127, 573-585	1.9	20
60	Au@void@AgAu Yolk-Shell Nanoparticles with Dominant Strain Effects: A Molecular Dynamics Simulation. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5064-5068	6.4	19
59	Quantum computation of the properties of helium using two-body and three-body intermolecular potentials: a molecular dynamics study. <i>Theoretical Chemistry Accounts</i> , <b>2008</b> , 119, 355-368	1.9	19
58	Dynamical investigation of formation of Ni Pt nanoclusters in gas phase. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 240, 221-224	6	18
57	Investigation of melting and freezing of AgAu alloy nanoclusters supported on carbon nanotube using molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 216, 671-682	6	18
56	Phase transition in crown-jewel structured Au-Ir nanoalloys with different shapes: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 25676-25686	3.6	16
55	Size dependence of the equation of state for Ne nanoclusters from an effective two-body potential via molecular dynamics simulations. <i>RSC Advances</i> , <b>2015</b> , 5, 11297-11308	3.7	15
54	New molecular insights into the stability of NiBd hollow nanoparticles. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1679-1690	6.8	13
53	Transport, thermodynamic, and structural properties of fluid ammonia using a new intermolecular potential: The inversion method and molecular dynamics simulation. <i>Chemical Physics</i> , <b>2011</b> , 389, 121-127 <sup>3</sup>	2.3	13
52	AuPt nanoalloy nucleation during the gas-phase condensation: a comprehensive MD study including different effects. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1445-1457	6.8	12
51	AgPd@Pt nanoparticles with different morphologies of cuboctahedron, icosahedron, decahedron, octahedron, and Marks-decahedron: insights from atomistic simulations. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 870-878	6.8	12
50	Determination of potential energy functions and calculation transport properties of oxygen and nitric oxide via the inversion of reduced viscosity collision integrals at zero pressure. <i>Chemical Physics</i> , <b>2006</b> , 326, 620-630	2.3	12

49	Determination of potential energy functions of CO, CO <sub>2</sub> , and N <sub>2</sub> O and calculation of their transport properties. <i>Chemical Physics</i> , <b>2006</b> , 330, 313-325	2.3	12
48	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. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14837-14845	3.9	12
47	Structural evolution of Pt/Pd nanoparticles in condensation process. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 248, 822-829	6	11
46	Determination of potential energy function of methane via the inversion of reduced viscosity collision integrals at zero pressure. <i>Fluid Phase Equilibria</i> , <b>2003</b> , 212, 53-65	2.5	11
45	Icosahedral Ir, Rh, Pt, and Cu nanoclusters into gold vapor environment: Thermodynamic and structural analysis of the formed core@shell nanoclusters using MD simulations. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 323-332	5.7	11
44	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 at different temperatures. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 504, 171-177	9.3	9
43	Au Pd nanoclusters supported on bundles of nanotubes and graphite surface: A comprehensive molecular dynamics study. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 687, 431-441	5.7	9
42	Carbon monoxide adsorption on the single-walled carbon nanotube supported gold-silver nanoalloys. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 310-319	3.6	9
41	Determination of the Potential Energy Function of CF <sub>4</sub> via the Inversion of Reduced Viscosity Collision Integrals at Zero Pressure. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 2256-2261	3.9	9
40	AuBe nanoparticles visited by MD simulation: structural and thermodynamic properties affected by chemical composition. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 9666-9675	3.6	8
39	A molecular dynamics study of the effect of the substrate on the thermodynamic properties of bound Pt-Cu bimetallic nanoclusters. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 21730-6	3.6	8
38	Investigation of thermal, structural and dynamical properties of (Au <sub>x</sub> Cu <sub>1-x</sub> ) <sub>N</sub> =32,108,256 ternary nanosystems: effect of Au addition to Cu <sub>N</sub> bimetallic nanoclusters via MD simulation. <i>RSC Advances</i> , <b>2016</b> , 6, 67619-67629	3.7	7
37	Thermodynamic, structural, and dynamical properties of nano-confined water using SPC/E and TIP4P models by molecular dynamics simulations. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 16258-16272	3.6	7
36	Many-body and quantum effects in the surface tension and surface energy of liquid neon and argon using the Fowler approximation. <i>Chemical Physics</i> , <b>2012</b> , 392, 107-113	2.3	7
35	Prediction of surface tension of HFD-like fluids using the Fowler approximation. <i>Chemical Physics</i> , <b>2006</b> , 328, 379-384	2.3	7
34	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 simulation. <i>RSC Advances</i> , <b>2016</b> , 6, 43924-43936	3.7	7
33	Density-dependent phase transition in nano-confinement water using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 250, 26-34	6	7
32	Thermodynamics, Structure, and Dynamic Properties of Nanostructured Water Confined into B-, N-, and Si-Doped Graphene Surfaces and Carbon Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 9642-9654	3.9	6

31	Effects of diameter and chirality on structural and dynamical behavior of [EMIM][PF6] encapsulated in carbon nanotube: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 212, 423-429	6	6
30	Computation of some thermodynamic, structural, and transport properties of fluid oxygen using two-body and three-body intermolecular potentials from molecular dynamics simulation. <i>Chemical Physics</i> , <b>2010</b> , 377, 115-122	2.3	6
29	A comparative study of graphite and CNT supported Au-Ag, Au-Pd, Au-Pt and Au-Rh nanoalloys using MD simulation. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 280, 87-96	6	5
28	Investigation of thermodynamic, dynamic, and structural properties of H <sub>2</sub> adsorption on a Ag-Au nanoalloy with a carbon nanotube support. <i>ChemPhysChem</i> , <b>2015</b> , 16, 1676-82	3.2	5
27	Ag-Au nanoparticles encapsulated inside porous hollow carbon nanospheres: a molecular dynamics study. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 13619-13628	3.6	5
26	Extended many-body potential of Hauschild and Prausnitz for pure HFD-like fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2014</b> , 413, 459-472	3.3	5
25	Nucleation, coalescence, thermal evolution, and statistical probability of formation of Au/Ir/Pd nanoalloys in gas-phase condensation process. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 274, 434-446	6	5
24	Pt-Co nanocluster in hollow carbon nanospheres. <i>Journal of Computational Chemistry</i> , <b>2018</b> , 39, 1267-1274	3.4	4
23	A comprehensive study of methane/carbon dioxide adsorptive selectivity in different bundle nanotubes. <i>RSC Advances</i> , <b>2016</b> , 6, 69845-69854	3.7	4
22	Accurate melting temperatures for Ne nanoclusters and bulk from an effective two-body potential via molecular dynamics simulations. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 381, 90-94	2.5	4
21	A new and accurate expression for the radial distribution function of confined Lennard-Jones fluid in carbon nanotubes. <i>RSC Advances</i> , <b>2015</b> , 5, 95781-95787	3.7	4
20	Surface energy, relative stability, and structural properties of Au-Pt, Au-Rh, Au-Cu, and Au-Pd nanoclusters created in inert-gas condensation process using MD simulation. <i>Journal of Physics and Chemistry of Solids</i> , <b>2020</b> , 144, 109480	3.9	4
19	Molecular dynamics investigation on the deliquescence of NH <sub>4</sub> Cl and NH <sub>4</sub> NO <sub>3</sub> nanoparticles under atmospheric conditions. <i>RSC Advances</i> , <b>2015</b> , 5, 38345-38353	3.7	3
18	Stability Control of [email-protected] Trimetallic Nanoparticles via AgPd Core Structure and Composition: A Molecular Dynamics Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 6236-6245	3.9	3
17	Propene adsorption on gold-palladium nanoalloys supported on bundle nanotubes. <i>RSC Advances</i> , <b>2016</b> , 6, 66275-66287	3.7	3
16	Molecular dynamics simulation of anticancer drug delivery from carbon nanotube using metal nanowires. <i>Journal of Computational Chemistry</i> , <b>2019</b> , 40, 2179-2190	3.5	2
15	Effective potential for many-body interactions in some properties of the HFD-like solids. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2015</b> , 439, 20-33	3.3	2
14	Formation of methane clathrates in carbon nanotubes: a molecular dynamics study. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 7083-7095	3.6	2

13	Investigation of different effects on the capacity of supercapacitor comprising an ionic liquid between graphene oxide nanosheets. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 266, 658-672	6	2
12	Investigation of doped carbon nanotubes on desalination process using molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 348, 118040	6	2
11	Melting Behavior of Bimetallic and Trimetallic Nanoparticles: A Review of MD Simulation Studies. <i>Topics in Current Chemistry</i> , <b>2021</b> , 379, 22	7.2	2
10	Equation of state and some structural and dynamical properties of the confined Lennard-Jones fluid into carbon nanotube: A molecular dynamics study. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 462, 1075-1090	3.3	2
9	Investigation of temperature and pressure effects on thermodynamics and structural properties of gold nanoparticles formed during the gas condensation procedure. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 281, 39-47	6	2
8	Structure, dynamics, and morphology of nanostructured water confined between parallel graphene surfaces and in carbon nanotubes by applying magnetic and electric fields. <i>Soft Matter</i> , <b>2021</b> , 17, 3085-3095	3.6	2
7	Accurate equations of state for CF <sub>4</sub> , CF <sub>4</sub> /Ar, and CF <sub>4</sub> /CH <sub>4</sub> fluids using two-body and three-body intermolecular potentials from molecular dynamics simulation. <i>Journal of Fluorine Chemistry</i> , <b>2014</b> , 168, 81-92	2.1	1
6	Molecular dynamics simulation of carbon peapod-like nanomaterials in desalination process. <i>Desalination</i> , <b>2021</b> , 504, 114975	10.3	1
5	A modified thermodynamic insight to deliquescence of a void-containing nanocrystal confirmed by MD simulation. <i>AIChE Journal</i> , <b>2016</b> , 62, 4066-4077	3.6	1
4	Phase transitions in nanostructured water confined in carbon nanotubes by external electric and magnetic fields: a molecular dynamics investigation.. <i>RSC Advances</i> , <b>2021</b> , 11, 10532-10539	3.7	1
3	Molecular dynamics simulation of liquid water and ice nanoclusters using a new effective HFD-like model. <i>Journal of Computational Chemistry</i> , <b>2018</b> , 39, 269-278	3.5	1
2	Investigation of the thermal properties of phase change materials encapsulated in capped carbon nanotubes using molecular dynamics simulations.. <i>RSC Advances</i> , <b>2021</b> , 11, 24594-24606	3.7	1
1	Ag, Au, Pt, and Au-Pt nanoclusters in [N1114][C1SO3] ionic liquid: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 360, 119447	6	1