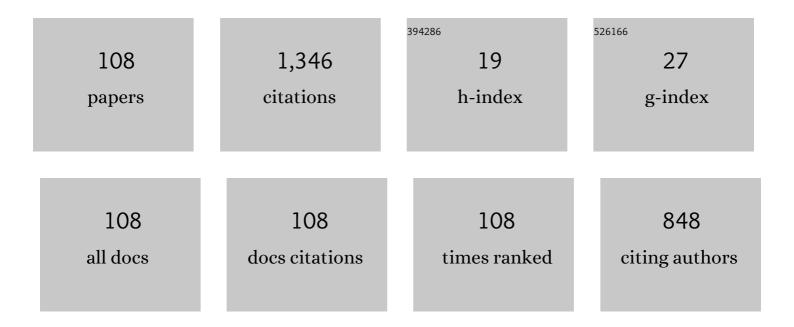
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	CO Adsorption on Ag Nanoclusters Supported on Carbon Nanotube: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2014, 118, 9187-9195.	1.5	53
2	Molecular dynamics simulations of silver nanocluster supported on carbon nanotube. Journal of Colloid and Interface Science, 2014, 418, 178-184.	5.0	49
3	Effects of Gas Adsorption on the Graphite-Supported Ag Nanoclusters: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2013, 117, 26287-26294.	1.5	40
4	Investigation of the melting of ionic liquid [emim][PF <sub>6</sub> ] confined inside carbon nanotubes using molecular dynamics simulations. RSC Advances, 2015, 5, 3868-3874.	1.7	31
5	Chemical ordering effect on melting temperature, surface energy of copper–gold bimetallic nanocluster. Journal of Alloys and Compounds, 2014, 617, 746-750.	2.8	29
6	Investigation of thermal evolution of copper nanoclusters encapsulated in carbon nanotubes: a molecular dynamics study. Physical Chemistry Chemical Physics, 2015, 17, 12747-12759.	1.3	29
7	Delivery of Cisplatin Anti-Cancer Drug from Carbon, Boron Nitride, and Silicon Carbide Nanotubes Forced by Ag-Nanowire: A Comprehensive Molecular Dynamics Study. Molecular Pharmaceutics, 2017, 14, 2273-2284.	2.3	29
8	A molecular-dynamics study of thermal and physical properties of platinum nanoclusters. Fluid Phase Equilibria, 2009, 280, 16-21.	1.4	27
9	Au@Void@Ag Yolk–Shell Nanoclusters Visited by Molecular Dynamics Simulation: The Effects of Structural Factors on Thermodynamic Stability. Journal of Physical Chemistry Letters, 2017, 8, 2990-2998.	2.1	27
10	Adsorption mechanism of different acyclovir concentrations on 1–2â€`nm sized magnetite nanoparticles: A molecular dynamics study. Journal of Molecular Liquids, 2018, 254, 64-69.	2.3	26
11	Calculation of thermodynamic properties of Ni nanoclusters via selected equations of state based on molecular dynamics simulations. Solid State Communications, 2011, 151, 965-970.	0.9	25
12	Ag–Au bimetallic nanoclusters formed from a homogeneous gas phase: a new thermodynamic expression confirmed by molecular dynamics simulation. Physical Chemistry Chemical Physics, 2017, 19, 3763-3769.	1.3	24
13	Au@void@AgAu Yolk–Shell Nanoparticles with Dominant Strain Effects: A Molecular Dynamics Simulation. Journal of Physical Chemistry Letters, 2017, 8, 5064-5068.	2.1	24
14	Investigation of doped carbon nanotubes on desalination process using molecular dynamics simulations. Journal of Molecular Liquids, 2022, 348, 118040.	2.3	24
15	Molecular dynamics simulation and MM–PBSA calculations of sickle cell hemoglobin in dimer form with Val, Trp, or Phe at the lateral contact. Journal of Physical Organic Chemistry, 2010, 23, 866-877.	0.9	23
16	Ni-Co bimetallic nanoparticles with core-shell, alloyed, and Janus structures explored by MD simulation. Journal of Molecular Liquids, 2017, 248, 1078-1095.	2.3	23
17	Effect of systematic addition of the third component on the melting characteristics and structural evolution of binary alloy nanoclusters. Journal of Molecular Liquids, 2018, 249, 412-419.	2.3	23
18	Cluster size dependence of surface energy of Ni nanoclusters: A molecular dynamics study. Chemical Physics Letters, 2013, 558, 57-61.	1.2	21

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19	H <sub>2</sub> adsorption on Ag-nanocluster/single-walled carbon nanotube composites: A molecular dynamics study on the effects of nanocluster size, diameter, and chirality of nanotube. Journal of Computational Chemistry, 2015, 36, 433-440.	1.5	21
20	Investigation of melting and freezing of Ag–Au alloy nanoclusters supported on carbon nanotube using molecular dynamics simulations. Journal of Molecular Liquids, 2016, 216, 671-682.	2.3	21
21	Molecular dynamics simulation of carbon peapod-like nanomaterials in desalination process. Desalination, 2021, 504, 114975.	4.0	21
22	Phase transition in crown-jewel structured Au–Ir nanoalloys with different shapes: a molecular dynamics study. Physical Chemistry Chemical Physics, 2016, 18, 25676-25686.	1.3	20
23	A molecular dynamics investigation of hydrogen adsorption on Ag–Cu bimetallic nanoclusters supported on a bundle of single-walled carbon nanotubes. RSC Advances, 2014, 4, 60866-60872.	1.7	19
24	Melting behavior of (Pd <sub>x</sub> Pt <sub>1â~x</sub> ) <sub>n</sub> nanoclusters confined in single-walled carbon nanotubes: a molecular dynamics investigation on the effects of chirality and diameter of nanotubes, and size and composition of nanoclusters. RSC Advances, 2015, 5, 23160-23173.	1.7	19
25	Dynamical investigation of formation of Ni Pt nanoclusters in gas phase. Journal of Molecular Liquids, 2017, 240, 221-224.	2.3	19
26	Dumbbell-like, core–shell and Janus-like configurations in Pd@Au@Pd three-shell nanoalloys: a molecular dynamics study. Inorganic Chemistry Frontiers, 2017, 4, 1551-1561.	3.0	19
27	Dependence of self-diffusion coefficient, surface energy, on size, temperature, and Debye temperature on size for aluminum nanoclusters. Fluid Phase Equilibria, 2012, 335, 26-31.	1.4	18
28	New molecular insights into the stability of Ni–Pd hollow nanoparticles. Inorganic Chemistry Frontiers, 2017, 4, 1679-1690.	3.0	18
29	AgPd@Pt nanoparticles with different morphologies of cuboctahedron, icosahedron, decahedron, octahedron, octahedron, and Marks-decahedron: insights from atomistic simulations. Inorganic Chemistry Frontiers, 2018, 5, 870-878.	3.0	18
30	Effect of water–methanol content on the structure of Nafion in the sandwich model and solvent dynamics in nano-channels; a molecular dynamics study. Molecular Physics, 2011, 109, 709-724.	0.8	17
31	Effect of pressure on some properties of Ag@Pd and Pd@Ag nanoclusters. Journal of Alloys and Compounds, 2017, 703, 174-179.	2.8	17
32	Size dependence of the equation of state for Ne nanoclusters from an effective two-body potential via molecular dynamics simulations. RSC Advances, 2015, 5, 11297-11308.	1.7	16
33	Competition between stability of icosahedral and cuboctahedral morphologies in bimetallic nanoalloys. Physical Chemistry Chemical Physics, 2017, 19, 14659-14670.	1.3	16
34	Effects of pressure, nanoalloy size, and nanoalloy mole fraction on melting of Ir-Rh nanoalloys using molecular dynamics simulations. Journal of Alloys and Compounds, 2017, 694, 1287-1294.	2.8	16
35	Melting Behavior of Bimetallic and Trimetallic Nanoparticles: A Review of MD Simulation Studies. Topics in Current Chemistry, 2021, 379, 22.	3.0	15
36	Temperature and Doping Effect on Thermal Conductivity of Copper–Gold Icosahedral Bimetallic Nanoclusters and Bulk Structures. Journal of Physical Chemistry C, 2015, 119, 7922-7932.	1.5	14

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37	Nano-confined ionic liquid [emim][PF6] between graphite sheets: A molecular dynamics study. Journal of Molecular Liquids, 2016, 215, 512-519.	2.3	14
38	Injection of mixture of shale gases in a nanoscale pore of graphite and their displacement by CO2/N2 gases using molecular dynamics study. Journal of Molecular Liquids, 2017, 248, 439-446.	2.3	14
39	Au–Ir nanoalloy nucleation during the gas-phase condensation: a comprehensive MD study including different effects. Inorganic Chemistry Frontiers, 2018, 5, 1445-1457.	3.0	14
40	Investigation of the thermal properties of phase change materials encapsulated in capped carbon nanotubes using molecular dynamics simulations. RSC Advances, 2021, 11, 24594-24606.	1.7	14
41	Surface free energy of platinum nanoparticles at zero pressure: A molecular dynamic study. Solid State Communications, 2010, 150, 254-257.	0.9	13
42	Investigation of thermal behavior of graphite-supported Ag nanoclusters of different sizes using molecular dynamics simulations. Fluid Phase Equilibria, 2014, 365, 68-73.	1.4	13
43	Disorder effect on heat capacity, self-diffusion coefficient, and choosing best potential model for melting temperature, in gold–copper bimetallic nanocluster with 55 atoms. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	13
44	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. Industrial & Engineering Chemistry Research, 2018, 57, 14837-14845.	1.8	13
45	Carbon monoxide adsorption on the single-walled carbon nanotube supported gold–silver nanoalloys. New Journal of Chemistry, 2016, 40, 310-319.	1.4	12
46	Au@Pt and Pt@Au nanoalloys in the icosahedral and cuboctahedral structures: Which is more stable?. Journal of Molecular Liquids, 2017, 242, 1002-1017.	2.3	12
47	Structural evolution of Pt/Pd nanoparticles in condensation process. Journal of Molecular Liquids, 2017, 248, 822-829.	2.3	12
48	A comprehensive molecular dynamics investigation on confinement of Pt Cu nanocluster inside carbon nanotubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 433-444.	2.3	11
49	Icosahedral Ir, Rh, Pt, and Cu nanoclusters into gold vapor environment: Thermodynamic and structural analysis of the formed core@shell nanoclusters using MD simulations. Journal of Alloys and Compounds, 2018, 764, 323-332.	2.8	11
50	Denaturation of Drew–Dickerson DNA in a high salt concentration medium: Molecular dynamics simulations. Journal of Computational Chemistry, 2011, 32, 3354-3361.	1.5	10
51	A molecular dynamics study of the effect of the substrate on the thermodynamic properties of bound Pt–Cu bimetallic nanoclusters. Physical Chemistry Chemical Physics, 2016, 18, 21730-21736.	1.3	10
52	Au Pd nanoclusters supported on bundles of nanotubes and graphite surface: A comprehensive molecular dynamics study. Journal of Alloys and Compounds, 2016, 687, 431-441.	2.8	10
53	Different morphologies of aluminum nanoclusters: Effect of pressure on solid-liquid phase transition of the nanoclusters using molecular dynamics simulations. Journal of Molecular Liquids, 2017, 230, 20-23.	2.3	10
54	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. Journal of Colloid and Interface Science, 2017, 504, 171-177.	5.0	10

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55	Kinetics formation of bimetallic nanoalloys at different simulation times. Journal of Molecular Liquids, 2017, 240, 468-475.	2.3	10
56	Effect of support on the coalescence between Ag@Au nanoalloys using MD simulations. Journal of Molecular Liquids, 2017, 244, 390-397.	2.3	10
57	Investigation of size dependence of the properties of Cu nanoclusters using molecular dynamics simulations. Journal of Molecular Liquids, 2016, 219, 158-164.	2.3	9
58	Stability Control of AgPd@Pt Trimetallic Nanoparticles via Ag–Pd Core Structure and Composition: A Molecular Dynamics Study. Industrial & Engineering Chemistry Research, 2018, 57, 6236-6245.	1.8	9
59	Au–Fe nanoparticles visited by MD simulation: structural and thermodynamic properties affected by chemical composition. New Journal of Chemistry, 2018, 42, 9666-9675.	1.4	9
60	Density-dependent phase transition in nano-confinement water using molecular dynamics simulation. Journal of Molecular Liquids, 2018, 250, 26-34.	2.3	9
61	Pt-Pd nanoalloys with crown-jewel structures: How size of the mother Pt cluster affects on thermal and structural properties of Pt-Pd nanoalloys?. Journal of Molecular Liquids, 2018, 249, 477-485.	2.3	9
62	Ag–Au nanoparticles encapsulated inside porous hollow carbon nanospheres: a molecular dynamics study. New Journal of Chemistry, 2018, 42, 13619-13628.	1.4	9
63	Thermodynamic, structural, and dynamical properties of nano-confined water using SPC/E and TIP4P models by molecular dynamics simulations. New Journal of Chemistry, 2018, 42, 16258-16272.	1.4	9
64	Thermodynamics, Structure, and Dynamic Properties of Nanostructured Water Confined into B-, N-, and Si-Doped Graphene Surfaces and Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2020, 59, 9642-9654.	1.8	9
65	Mo nanocluster under high pressure: A molecular dynamics study. Journal of Molecular Liquids, 2016, 222, 648-655.	2.3	8
66	Investigation of thermal, structural and dynamical properties of (Au <sub>x</sub> –Cu <sub>y</sub> –Ni <sub>y</sub> ) <sub>N=32,108,256</sub> ternary nanosystems: effect of Au addition to Cu–Ni bimetallic nanoclusters via MD simulation. RSC Advances, 2016, 6, 67619-67629.	1.7	8
67	Molecular dynamics simulation of anticancer drug delivery from carbon nanotube using metal nanowires. Journal of Computational Chemistry, 2019, 40, 2179-2190.	1.5	8
68	Effects of diameter and chirality on structural and dynamical behavior of [EMIM][PF6] encapsulated in carbon nanotube: A molecular dynamics study. Journal of Molecular Liquids, 2015, 212, 423-429.	2.3	7
69	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. RSC Advances, 2016, 6, 43924-43936.	1.7	7
70	A comprehensive study of methane/carbon dioxide adsorptive selectivity in different bundle nanotubes. RSC Advances, 2016, 6, 69845-69854.	1.7	7
71	Molecular dynamics simulation of noble gas adsorption on graphite: New effective potentials including many-body interactions. Journal of Molecular Liquids, 2016, 222, 915-922.	2.3	7
72	Unexpected trend for thermodynamic stability of Au@void@AgAu yolk-shell nanoparticles: A molecular dynamics study. Applied Surface Science, 2018, 447, 648-655.	3.1	7

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73	Pt–Co nanocluster in hollow carbon nanospheres. Journal of Computational Chemistry, 2018, 39, 1267-1274.	1.5	7
74	A new and accurate expression for the radial distribution function of confined Lennard-Jones fluid in carbon nanotubes. RSC Advances, 2015, 5, 95781-95787.	1.7	6
75	Equation of state and some structural and dynamical properties of the confined Lennard-Jones fluid into carbon nanotube: A molecular dynamics study. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1075-1090.	1.2	6
76	Thermal stabilities of iron nanoparticles under hydrostatic pressure. Journal of Molecular Liquids, 2017, 241, 321-325.	2.3	6
77	Coalescence process of gold/silver core-shell nanoparticles located on carbon nanotube and graphene surfaces. Journal of Molecular Liquids, 2017, 248, 738-750.	2.3	6
78	Effect of Pt addition to Ag Au bimetallic nanoclusters: A molecular dynamics study of Ag Au Pt ternary system. Journal of Alloys and Compounds, 2017, 692, 647-657.	2.8	6
79	Analysis of MoS2 and WS2 nano-layers role on the radiation resistance of various Cu/MS2/Cu and Cu/MS2@Cu@MS2/Cu nanocomposites. Materialia, 2022, 21, 101281.	1.3	6
80	On the existence of an analytic solution to the 1-D Ising model with nearest and next-nearest neighbor interactions in the presence of a magnetic field. Phase Transitions, 2011, 84, 77-84.	0.6	5
81	Adsorption of He gas on the Agn nanoclusters: A molecular dynamic study. Fluid Phase Equilibria, 2014, 379, 175-179.	1.4	5
82	Investigation of Thermodynamic, Dynamic, and Structural Properties of H <sub>2</sub> Adsorption on a Ag–Au Nanoalloy with a Carbon Nanotube Support. ChemPhysChem, 2015, 16, 1676-1682.	1.0	5
83	Adsorption of He–Ar binary mixture on the silver nanoclusters: A molecular dynamics investigation on the effects mole fraction of mixture, shape and size of the nanocluster. Journal of Molecular Liquids, 2016, 216, 111-116.	2.3	5
84	Formation of methane clathrates in carbon nanotubes: a molecular dynamics study. New Journal of Chemistry, 2018, 42, 7083-7095.	1.4	5
85	Using molecular dynamic simulation data of calcite in a wide pressure range to calculate some of its thermodynamic properties via some universal equations of state. Molecular Physics, 2008, 106, 2545-2556.	0.8	4
86	Permutation entropy and detrend fluctuation analysis for the natural complexity of cardiac heart interbeat signals. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3106-3112.	1.2	4
87	Accurate melting temperatures for Ne nanoclusters and bulk from an effective two-body potential via molecular dynamics simulations. Fluid Phase Equilibria, 2014, 381, 90-94.	1.4	4
88	Rattle, Porous, and Dense Cores and Discontinuous Porous, Continuous Porous, and Dense Shells in Pt@Au Core–Shell Nanoparticles. Industrial & Engineering Chemistry Research, 2018, 57, 4923-4934.	1.8	4
89	Investigation of different effects on the capacity of supercapacitor comprising an ionic liquid between graphene oxide nanosheets. Journal of Molecular Liquids, 2018, 266, 658-672.	2.3	4
90	Stability of Pd@void@M (M=Ni, Ag, and Pt) yolk shell nanoparticles controlled by structural factors: A molecular dynamics perspective. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125920.	2.3	4

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91	Study of two dimensional anisotropic Ising models via a renormalization group approach. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 5604-5614.	1.2	3
92	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. RSC Advances, 2015, 5, 38345-38353.	1.7	3
93	Propene adsorption on gold–palladium nanoalloys supported on bundle nanotubes. RSC Advances, 2016, 6, 66275-66287.	1.7	3
94	Nanotube diameter dependency of anisotropic pressure of an ionic liquid confined in a carbon nanotube: A molecular dynamics study for [emim][PF6] case. Journal of Molecular Liquids, 2016, 220, 370-374.	2.3	3
95	Concave Pd-M (MÂ=ÂCo, Ni, Cu, Rh, Ag, Ir, Pt, and Au) nanocubes explored by molecular dynamics simulations: A liquid-like expansion mechanism. Applied Surface Science, 2022, 592, 153203.	3.1	3
96	Effect of a monomeric sequence on the structure of hydrated Nafion in the sandwich model and solvent dynamics in nano-channels: a molecular dynamic study. Molecular Physics, 2010, 108, 3393-3404.	0.8	2
97	Size dependence and effect of potential parameters on properties of nano-cavities in liquid xenon using molecular dynamics simulation. Chemical Physics, 2011, 381, 44-48.	0.9	2
98	Some properties of solid helium and helium nanoclusters using the effective HFD-like interaction potential: Adsorption and desorption inside carbon nanotube. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 219-232.	1.2	2
99	Molecular dynamics simulation of liquid water and ice nanoclusters using a new effective HFDâ€like model. Journal of Computational Chemistry, 2018, 39, 269-278.	1.5	2
100	Phase transitions in nanostructured water confined in carbon nanotubes by external electric and magnetic fields: a molecular dynamics investigation. RSC Advances, 2021, 11, 10532-10539.	1.7	2
101	Structure, dynamics, and morphology of nanostructured water confined between parallel graphene surfaces and in carbon nanotubes by applying magnetic and electric fields. Soft Matter, 2021, 17, 3085-3095.	1.2	2
102	Pt core confined within an Au skeletal frame: Pt@Void@Au nanoframes in a molecular dynamics Perspective. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127664.	2.3	2
103	Boron Nitride- and Graphene-Supported Trimetallic Yolk–Shell and Hollow Nanoparticles. Industrial & Engineering Chemistry Research, 0, , .	1.8	2
104	Investigation of magnetic field effect on surface and finite-site free energy in one-dimensional Ising model of nanosystems. Phase Transitions, 2011, 84, 613-623.	0.6	1
105	Spin coupling and magnetic field effects on the finite-size free energy and its non-extensivity for 1-D Ising model with nearest and next-nearest neighbor interactions in nanosystem. Phase Transitions, 2012, 85, 577-591.	0.6	1
106	Intracellular viral infection kinetics using a stochastic approach. Progress in Reaction Kinetics and Mechanism, 2013, 38, 359-376.	1.1	1
107	A modified thermodynamic insight to deliquescence of a void ontaining nanocrystal confirmed by MD simulation. AICHE Journal, 2016, 62, 4066-4077.	1.8	1
108	Ball-Cup, Janus, core-shell and disordered-alloy rhodium-gold nanoparticles: An atomistic simulation on structural stability. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129658.	2.3	1