

Mingli Yang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1720564/publications.pdf>

Version: 2024-02-01

130
papers

2,189
citations

218677

26
h-index

315739

38
g-index

133
all docs

133
docs citations

133
times ranked

2417
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding zinc-doped hydroxyapatite structures using first-principles calculations and convolutional neural network algorithm. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1281-1290.	5.8	7
2	Interlayer electron flow and field shielding in twisted trilayer graphene quantum dots. <i>Nanoscale</i> , 2022, 14, 1310-1317.	5.6	3
3	Combining crystal graphs and domain knowledge in machine learning to predict metal-organic frameworks performance in methane adsorption. <i>Microporous and Mesoporous Materials</i> , 2022, 331, 111666.	4.4	16
4	Gas Adsorption Capacity of Type-II Kerogen at a Varying Burial Depth. <i>Energy & Fuels</i> , 2022, 36, 7472-7482.	5.1	3
5	Enhanced interlayer coupling in twisted bilayer graphene quantum dots. <i>Applied Surface Science</i> , 2022, 600, 154148.	6.1	5
6	Molecular simulations on the continuous methane desorption in illite nanoslits. <i>Fuel</i> , 2022, 328, 125207.	6.4	2
7	Effect of Mn doping on the electron injection in CdSe/TiO ₂ quantum dot sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 647-656.	2.8	8
8	Enhanced second-order Stark effect in twisted bilayer graphene quantum dots. <i>Nano Research</i> , 2021, 14, 3935.	10.4	4
9	Molecular modeling on the pressure-driven methane desorption in illite nanoslits. <i>Journal of Molecular Modeling</i> , 2021, 27, 83.	1.8	4
10	Fast estimation on the pressure of detonation products of cyclotetramethylene tetranitramine through molecular dynamics simulations. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150106.	2.0	2
11	First-Principles Study of the Electron-Hole Recombination Rate at the Interface of the CdSe Quantum Dot and TiO ₂ Substrate. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15785-15795.	3.1	9
12	Equation of state for the detonation products of energetic materials. <i>Materials Express</i> , 2021, 11, 1269-1287.	0.5	0
13	Machine learning on properties of multiscale multisource hydroxyapatite nanoparticles datasets with different morphologies and sizes. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	19
14	Interlayer polarizability in twisted bilayer graphene quantum dots. <i>Physical Review B</i> , 2021, 104, .	3.2	5
15	Phase separation in the supercritical mixtures of N ₂ , H ₂ O and CO ₂ through a molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2020, 315, 113811.	4.9	2
16	Accelerating Discovery of Metal-Organic Frameworks for Methane Adsorption with Hierarchical Screening and Deep Learning. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52797-52807.	8.0	31
17	A Ti-MOF Decorated With a Pt Nanoparticle Cocatalyst for Efficient Photocatalytic H ₂ Evolution: A Theoretical Study. <i>Frontiers in Chemistry</i> , 2020, 8, 660.	3.6	8
18	Effect of water occupancy on the excess adsorption of methane in montmorillonites. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 80, 103393.	4.4	13

#	ARTICLE	IF	CITATIONS
19	Probing the surface activity of hydroxyapatite nanoparticles through their interaction with water molecules. <i>AIP Advances</i> , 2020, 10, 065217.	1.3	5
20	A modified model for estimating excess adsorption of methane in moist nanoporous silica. <i>Chemical Physics</i> , 2020, 533, 110740.	1.9	7
21	Interfacial interaction and its influence on the mechanical performances of hydroxyapatite through a polycrystalline model. <i>Physica B: Condensed Matter</i> , 2020, 594, 412338.	2.7	3
22	Computational characterization of the structural and mechanical properties of Al _x CoCrFeNiTi ^{1-x} high entropy alloys. <i>Materials Research Express</i> , 2019, 6, 096519.	1.6	7
23	Radiative and non-radiative decay kinetics of (CdSe) _N (N = 3 and 4) clusters. <i>Journal of Chemical Physics</i> , 2019, 151, 064306.	3.0	1
24	Dielectric and optical properties of porous graphenes with uniform pore structures. <i>Journal of Molecular Modeling</i> , 2019, 25, 266.	1.8	3
25	Effect of Ta addition on the structural, thermodynamic and mechanical properties of CoCrFeNi high entropy alloys. <i>RSC Advances</i> , 2019, 9, 16447-16454.	3.6	6
26	Computational characterization of the structural and mechanical properties of nanoporous titania. <i>RSC Advances</i> , 2019, 9, 15298-15306.	3.6	5
27	A reactive force field molecular dynamics study of molecular nitrogen and water mixtures under high temperature and high pressure. <i>Journal of Molecular Modeling</i> , 2019, 25, 120.	1.8	3
28	Effect of Hydroxyapatite Surface on BMP-2 Biological Properties by Docking and Molecular Simulation Approaches. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3372-3382.	2.6	22
29	Unraveling the Structure-Dependent Radiative and Nonradiative Decays in (CdSe) ₁₃ Clusters through First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30714-30722.	3.1	11
30	First-Principles-Based Force Field for 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>ACS Omega</i> , 2019, 4, 21054-21062.	3.5	4
31	Radiative and non-radiative exciton recombination rate constants in ZnSe clusters. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	7
32	Nucleation of Biomimetic Hydroxyapatite Nanoparticles on the Surface of Type I Collagen: Molecular Dynamics Investigations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2533-2543.	3.1	22
33	Molecular Dynamics Exploration of Ordered-to-Disordered Surface Structures of Biomimetic Hydroxyapatite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6691-6703.	3.1	12
34	Probing the surface structure of hydroxyapatite through its interaction with hydroxyl: a first-principles study. <i>RSC Advances</i> , 2018, 8, 3716-3722.	3.6	25
35	Theoretical characterization on the size-dependent electron and hole trapping activity of chloride-passivated CdSe nanoclusters. <i>Journal of Chemical Physics</i> , 2018, 148, 134308.	3.0	7
36	Understanding the phase separation of N ₂ /H ₂ O and CO ₂ /H ₂ O binary systems through reactive force fields-based molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	6

#	ARTICLE	IF	CITATIONS
37	A comparative study of the dissolubility of pure and silicon substituted hydroxyapatite from density functional theory calculations. <i>Journal of Molecular Modeling</i> , 2018, 24, 168.	1.8	3
38	First-principles study on the hydroxyl migration from inner to surface in hydroxyapatite. <i>Applied Surface Science</i> , 2018, 452, 381-388.	6.1	10
39	Coupled-cluster method for open-shell heavy-element systems with spin-orbit coupling. <i>Journal of Chemical Physics</i> , 2017, 146, 134108.	3.0	14
40	Hydroxyl migration disorders the surface structure of hydroxyapatite nanoparticles. <i>Applied Surface Science</i> , 2017, 416, 901-910.	6.1	13
41	First-principles study on structural, electronic, vibrational and thermodynamic properties of $\text{Sr}_{10}(\text{PO}_4)_6\text{X}_2$ ($\text{X} = \text{F}, \text{Cl}, \text{Br}$). <i>RSC Advances</i> , 2017, 7, 30310-30319.	3.6	6
42	Computer simulations on the mechanical behaviors of biphasic calcium phosphates. <i>Journal of Molecular Modeling</i> , 2017, 23, 156.	1.8	13
43	Confinement of hydrogen and hydroxyl radicals in water cages: a density functional theory study. <i>RSC Advances</i> , 2017, 7, 14537-14543.	3.6	5
44	A theoretical study of molecular structure, optical properties and bond activation of energetic compound FOX-7 under intense electric fields. <i>Chemical Physics</i> , 2017, 483-484, 122-131.	1.9	10
45	Effect of an external electric field on the C N cleavage reactions in nitromethane and triaminotrinitrobenzene. <i>Computational and Theoretical Chemistry</i> , 2017, 1117, 215-219.	2.5	11
46	Stokes shifts of small ZnSe clusters from first-principles calculations. <i>Molecular Physics</i> , 2017, 115, 3192-3198.	1.7	6
47	Shell effect on the electron and hole reorganization energy of core-shell II-VI nanoclusters. <i>Chemical Physics</i> , 2017, 494, 72-77.	1.9	5
48	Polarization response of clathrate hydrates capsulated with guest molecules. <i>Journal of Chemical Physics</i> , 2016, 144, 204308.	3.0	11
49	Spin-orbit coupling with approximate equation-of-motion coupled-cluster method for ionization potential and electron attachment. <i>Journal of Chemical Physics</i> , 2016, 145, 154110.	3.0	10
50	Core-shell interaction and its impact on the optical absorption of pure and doped core-shell CdSe/ZnSe nanoclusters. <i>Journal of Chemical Physics</i> , 2016, 144, 134307.	3.0	10
51	First-principles study of water desorption from montmorillonite surface. <i>Journal of Molecular Modeling</i> , 2016, 22, 105.	1.8	10
52	Surface Structure of Hydroxyapatite from Simulated Annealing Molecular Dynamics Simulations. <i>Langmuir</i> , 2016, 32, 4643-4652.	3.5	31
53	A theoretical study of the activation of nitromethane under applied electric fields. <i>RSC Advances</i> , 2016, 6, 24712-24718.	3.6	8
54	Electronic, vibrational and thermodynamic properties of $\text{Ca}_{10}(\text{AsO}_4)_6(\text{OH})_2$: first principles study. <i>EPJ Applied Physics</i> , 2015, 72, 31201.	0.7	3

#	ARTICLE	IF	CITATIONS
55	A study of optical absorption of cysteine-capped CdSe nanoclusters using first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9222-9230.	2.8	29
56	Molecular dynamics simulations on the shear viscosity of Al ₂ O ₃ nanofluids. <i>Computers and Fluids</i> , 2015, 117, 17-23.	2.5	40
57	Optical absorption of warped nanographenes tuned by five- and seven-membered carbon rings. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17864-17871.	2.8	9
58	The mechanism of 2,4,6-trinitrotoluene detection with amino acid-capped quantum dots: a density functional theory study. <i>RSC Advances</i> , 2015, 5, 48406-48412.	3.6	12
59	Ab initio intermolecular potential energy surfaces of the KrCS ₂ and XeCS ₂ complexes. <i>Computational and Theoretical Chemistry</i> , 2015, 1070, 88-93.	2.5	5
60	An interlayer expansion model for counterion-intercalated montmorillonite from first-principles calculations. <i>Computational Materials Science</i> , 2015, 96, 134-139.	3.0	20
61	A density functional theory study of the hydration of calcium ions confined in the interlayer space of montmorillonites. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1450028.	1.8	11
62	Controllable synthesis of carbon coils and growth mechanism for twinning double-helix catalyzed by Ni nanoparticle. <i>Composites Part B: Engineering</i> , 2014, 61, 350-357.	12.0	20
63	Mechanistic Study of the Role of Primary Amines in Precursor Conversions to Semiconductor Nanocrystals at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6898-6904.	13.8	24
64	Theoretical characterization of formamide on the inner surface of montmorillonite. <i>Surface Science</i> , 2014, 624, 37-43.	1.9	13
65	Theory Studies on Low-Lying States of Lead Chalcogenide Cations. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2014, 30, 431-438.	4.9	0
66	The structure and optical absorption of single source precursors for II-VI quantum dots. <i>Chemical Physics Letters</i> , 2013, 568-569, 125-129.	2.6	13
67	Micro-flowers changing to nano-bundle aggregates by translocation of the sugar moiety in Janus TA nucleosides. <i>Chemical Communications</i> , 2013, 49, 3742.	4.1	17
68	The Formation Mechanism of Binary Semiconductor Nanomaterials: Shared by Single-Source and Dual-Source Precursor Approaches. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11034-11039.	13.8	34
69	Polarization response of methane encapsulated in water cages. <i>Computational and Theoretical Chemistry</i> , 2013, 1013, 52-56.	2.5	4
70	Structures and optical absorptions of PbSe clusters from <i>ab initio</i> calculations. <i>Journal of Chemical Physics</i> , 2013, 139, 094305.	3.0	16
71	Isomorphous substituted bimetallic oxide cluster as a novel strategy for single-atom catalysis. <i>Computational and Theoretical Chemistry</i> , 2013, 1021, 262-267.	2.5	3
72	Effect of interlayer counterions on the structures of dry montmorillonites with Si ⁴⁺ /Al ³⁺ substitution. <i>Computational Materials Science</i> , 2013, 69, 95-99.	3.0	34

#	ARTICLE	IF	CITATIONS
73	First-principles study of ammonium ions and their hydration in montmorillonites. <i>Journal of Molecular Modeling</i> , 2013, 19, 1875-1881.	1.8	15
74	Effect of Tertiary and Secondary Phosphines on Low-Temperature Formation of Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4823-4828.	13.8	55
75	First-principles study of O ₂ activation on ligand-protected Au ₃₂ clusters. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9742.	2.8	7
76	Competition between Eley-Rideal and Langmuir-Hinshelwood Pathways of CO Oxidation on Cu _n and Cu _n O (n = 6, 7) Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8767-8773.	3.1	31
77	In silico identification of EGFR-T790M inhibitors with novel scaffolds: start with extraction of common features. <i>Drug Design, Development and Therapy</i> , 2013, 7, 789.	4.3	15
78	Local and nonlocal contributions to molecular first-order hyperpolarizability: A Hirshfeld partitioning analysis. <i>Journal of Chemical Physics</i> , 2012, 136, 224304.	3.0	9
79	First-Principles Study of AuC ₆₀ Clusters. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6571-6575.	0.9	2
80	Gas-Induced Formation of Cu Nanoparticle as Catalyst for High-Purity Straight and Helical Carbon Nanofibers. <i>ACS Nano</i> , 2012, 6, 8611-8619.	14.6	50
81	Comparative ab Initio Study of CO Adsorption on Sc _n and Sc _n O (n = 2-13) Clusters. <i>Journal of Physical Chemistry A</i> , 2012, 116, 93-97.	2.5	13
82	First-principles study of the adsorption of lysine on hydroxyapatite (100) surface. <i>Applied Surface Science</i> , 2012, 258, 4911-4916.	6.1	38
83	Stability competition between the layered and compact Cu ₁₆ clusters. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	3
84	Theoretical study of static (Hyper)polarizabilities of twisted intramolecular charge transfer chromophores. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1086-1096.	2.0	6
85	Comparative DFT study of N ₂ and NO adsorption on vanadium clusters V _n (n = 2-13). <i>Journal of Computational Chemistry</i> , 2012, 33, 1854-1861.	3.3	24
86	Icosahedral to double-icosahedral shape transition of copper clusters. <i>Journal of Chemical Physics</i> , 2012, 136, 104501.	3.0	32
87	Correlation between biological activity and binding energy in systems of integrin with cyclic RGD-containing binders: a QM/MM molecular dynamics study. <i>Journal of Molecular Modeling</i> , 2012, 18, 4917-4927.	1.8	9
88	Spin-orbit coupling effect on Au-C ₆₀ interaction: A density functional theory study. <i>Chemical Physics</i> , 2012, 395, 82-86.	1.9	11
89	Comparative Study of the Interaction of O ₂ and C ₂ H ₄ with Small Vanadium Clusters from Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10259-10265.	2.5	7
90	Theoretical Investigation of Adsorption of Molecular Oxygen on Small Copper Clusters. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8705-8712.	2.5	28

#	ARTICLE	IF	CITATIONS
109	Density functional theory study of cationic group VI transition metal ⁺ benzene clusters. Computational and Theoretical Chemistry, 2008, 869, 37-40.	1.5	10
110	HPLC COUPLED WITH ION TRAP MS/MS FOR ANALYSIS OF TERTIARY BUTYLHYDROQUINONE IN EDIBLE OIL SAMPLES. Journal of Food Lipids, 2008, 15, 1-12.	1.0	14
111	First-principles study of static polarizability, first and second hyperpolarizabilities of small-sized ZnO clusters. Physical Chemistry Chemical Physics, 2008, 10, 6829.	2.8	28
112	Size- and Shape-Dependent Polarizabilities of Sandwich and Rice-Ball ConBzm Clusters from Density Functional Theory. Journal of Physical Chemistry A, 2008, 112, 8226-8230.	2.5	16
113	Density functional study of CO adsorption on Scn ⁺ (n=2 ⁺ 13) clusters. Journal of Chemical Physics, 2008, 128, 224315.	3.0	20
114	Optical absorption spectra of intermediate-size silver clusters from first principles. Physical Review B, 2008, 78, .	3.2	67
115	Site-Specific Analysis of Dielectric Properties of Finite Systems. Journal of Physical Chemistry C, 2007, 111, 17952-17960.	3.1	45
116	Structure and shape variations in intermediate-size copper clusters. Journal of Chemical Physics, 2006, 124, 024308.	3.0	100
117	First-principles absorption spectra of Sin(n=20 ⁺ 28) clusters: Time-dependent local-density approximation versus predictions from Mie theory. Physical Review B, 2006, 74, .	3.2	22
118	CHARGE DISTRIBUTION AND POLARISABILITIES OF WATER CLUSTERS. , 2006, , 657-679.		3
119	Dipole polarizabilities of medium-sized gold clusters. Physical Review A, 2006, 74, .	2.5	41
120	Relation between the Fukui function and the Coulomb hole. Journal of Chemical Sciences, 2005, 117, 411-418.	1.5	20
121	DFT study of polarizabilities and dipole moments of water clusters. International Journal of Quantum Chemistry, 2005, 101, 535-542.	2.0	70
122	First-principles investigations of the polarizability of small-sized and intermediate-sized copper clusters. Journal of Chemical Physics, 2005, 122, 184317.	3.0	32
123	Dipole polarizabilities of germanium clusters. Chemical Physics Letters, 2003, 367, 448-454.	2.6	39
124	Large Off-Diagonal Contribution to the Second-Order Optical Nonlinearities of β -Shaped Molecules. Journal of Physical Chemistry A, 2003, 107, 3942-3951.	2.5	105
125	Intramolecular charge transfer and first-order hyperpolarizability of planar and twisted sesquifulvalenes. Physical Chemistry Chemical Physics, 2002, 4, 5566-5571.	2.8	28
126	An MP2 study of linear polarizabilities and second-order hyperpolarizabilities for centrosymmetric squaraines. Chemical Physics Letters, 2002, 354, 316-323.	2.6	22

#	ARTICLE	IF	CITATIONS
127	A theoretical study of second hyperpolarizabilities for donor-acceptor molecules. Physical Chemistry Chemical Physics, 2001, 3, 167-171.	2.8	20
128	Molecular design for squaraines with large positive or negative third-order optical nonlinearity. Physical Chemistry Chemical Physics, 2001, 3, 4213-4217.	2.8	28
129	Structure-property correlation in static electronic second-order hyperpolarizabilities of centrosymmetric squaraines. Chemical Physics, 2001, 274, 121-130.	1.9	18
130	Mechanism of the interaction of color reagent 1, 3-N, N-bis-4-(4-nitro benzenediazo) phenyl squaraine with oxoacid anions. Science in China Series B: Chemistry, 1999, 42, 70-76.	0.8	0