

Yu-Hua Wen

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104
papers

1,940
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24
h-index

39
g-index

109
ext. papers

2,208
ext. citations

4
avg, IF

4.94
L-index

#	Paper	IF	Citations
104	Electrochemical synthesis of tetrahedral rhodium nanocrystals with extraordinarily high surface energy and high electrocatalytic activity. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5097-101	16.4	106
103	Could Borophene Be Used as a Promising Anode Material for High-Performance Lithium Ion Battery?. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22175-81	9.5	103
102	Molecular dynamics study of the mechanical behavior of nickel nanowire: Strain rate effects. <i>Computational Materials Science</i> , 2008 , 41, 553-560	3.2	99
101	PtPd Bimetallic Catalysts: Structural and Thermal Stabilities of CoreShell and Alloyed Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8664-8671	3.8	96
100	Structural and Electronic Properties of Superlattice Composed of Graphene and Monolayer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15347-15353	3.8	88
99	Size effects on the melting of nickel nanowires: a molecular dynamics study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 25, 47-54	3	75
98	Orientation-Dependent Structural Transition and Melting of Au Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20611-20617	3.8	62
97	Structure and stability of platinum nanocrystals: from low-index to high-index facets. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11578		57
96	Insight into the Melting Behavior of AuPt CoreShell Nanoparticles from Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4278-4286	3.8	53
95	Direct to indirect band gap transition in ultrathin ZnO nanowires under uniaxial compression. <i>Applied Physics Letters</i> , 2009 , 94, 113114	3.4	48
94	Two-Stage Melting in CoreShell Nanoparticles: An Atomic-Scale Perspective. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11837-11841	3.8	42
93	Thermodynamic, structural and elastic properties of Co ₃ X (X = Ti, Ta, W, V, Al) compounds from first-principles calculations. <i>Intermetallics</i> , 2013 , 32, 303-311	3.5	41
92	Molecular dynamics investigation of shape effects on thermal characteristics of platinum nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 272-276	2.3	40
91	The uniaxial tensile deformation of Ni nanowire: atomic-scale computer simulations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 27, 113-120	3	38
90	A molecular dynamics study of shape transformation and melting of tetrahedral platinum nanoparticle. <i>Chemical Physics Letters</i> , 2009 , 471, 295-299	2.5	36
89	Enhanced thermal stability of Au@Pt nanoparticles by tuning shell thickness: Insights from atomistic simulations. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7380		32
88	Strain-induced structural and direct-to-indirect band gap transition in ZnO nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 2846-2849	2.3	32

87	Structural optimization of PtBdBh trimetallic nanoparticles using improved genetic algorithm. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 466-473	5.7	27
86	Tunable thermodynamic stability of Au-CuPt core-shell trimetallic nanoparticles by controlling the alloy composition: insights from atomistic simulations. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22754-61	3.6	27
85	Insights into electrochemical performance of Li ₂ FeSiO ₄ from first-principles calculations. <i>Electrochimica Acta</i> , 2013 , 111, 172-178	6.7	26
84	Diverse melting modes and structural collapse of hollow bimetallic core-shell nanoparticles: a perspective from molecular dynamics simulations. <i>Scientific Reports</i> , 2014 , 4, 7051	4.9	26
83	First-Principles Investigations on the Na ₂ MnPO ₄ F as a Cathode Material for Na-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A927-A932	3.9	26
82	Thermal Stability and Shape Evolution of Tetrahedral AuBd CoreShell Nanoparticles with High-Index Facets. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6896-6903	3.8	25
81	Structure and Stability of Fe Nanocrystals: An Atomistic Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18841-18846	3.8	24
80	First-principles study on the structural and electronic properties of ultrathin ZnO nanofilms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 1054-1058	2.3	24
79	Structural optimization of PtBdAu trimetallic nanoparticles by discrete particle swarm algorithms. <i>Journal of Materials Science</i> , 2015 , 50, 3308-3319	4.3	23
78	Mechanical properties of platinum nanowires: An atomistic investigation on single-crystalline and twinned structures. <i>Computational Materials Science</i> , 2012 , 55, 205-210	3.2	23
77	Orientation-dependent mechanical properties of Au nanowires under uniaxial loading. <i>Computational Materials Science</i> , 2010 , 48, 513-519	3.2	23
76	Size-dependent effects on equilibrium stress and strain in nickel nanowires. <i>Physical Review B</i> , 2007 , 76,	3.3	23
75	High-index-faceted platinum nanoparticles: insights into structural and thermal stabilities and shape evolution from atomistic simulations. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11480-11489	13	21
74	Single-crystalline and multiple-twinned gold nanoparticles: an atomistic perspective on structural and thermal stabilities. <i>RSC Advances</i> , 2014 , 4, 7528	3.7	21
73	Compressive mechanical behavior of Au nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 2949-2952	2.3	21
72	Molecular dynamics investigation of structural evolution of fcc Fe nanoparticles under heating process. <i>Chemical Physics Letters</i> , 2011 , 502, 207-210	2.5	20
71	Structural and electronic properties of ZnO/GaN heterostructured nanowires from first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3097-102	3.6	18
70	Computational screening of efficient graphene-supported transition metal single atom catalysts toward the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19319-19327	13	18

- 69 Thermal Stability of Platinum-Cobalt Bimetallic Nanoparticles: Chemically Disordered Alloys, Ordered Intermetallics, and Core-Shell Structures. *ACS Applied Materials & Interfaces*, **2017**, 9, 12486-12493
- 68 Thermal stability of platinum nanowires: a comparison study between single-crystalline and twinned structures. *Journal of Materials Chemistry*, **2011**, 21, 18998
- 67 Surface-passivation-induced metallic and magnetic properties of ZnO graphitic sheet. *Applied Physics Letters*, **2010**, 96, 223113
- 66 Atomic structure and thermal stability of Pt-Fe bimetallic nanoparticles: from alloy to core/shell architectures. *Physical Chemistry Chemical Physics*, **2016**, 18, 17010-7
- 65 Thermal Stability of Co-Pt and Co-Au Core-Shell Structured Nanoparticles: Insights from Molecular Dynamics Simulations. *Journal of Physical Chemistry Letters*, **2017**, 8, 4273-4278
- 64 Strain-tunable band gap of hydrogenated bilayer graphene. *New Journal of Physics*, **2011**, 13, 063047
- 63 Electronic and magnetic properties of silicon adsorption on graphene. *Solid State Communications*, **2011**, 151, 1128-1130
- 62 Stable structure optimization of Pt-X-Cu (X = Au, Ag, Pd and Rh) trimetallic nanoparticles. *Journal of Alloys and Compounds*, **2017**, 716, 240-250
- 61 Tetrahedral PtPd alloy nanocatalysts with high-index facets: an atomistic perspective on thermodynamic and shape stabilities. *Journal of Materials Chemistry A*, **2014**, 2, 1375-1382
- 60 Robust indirect band gap and anisotropy of optical absorption in B-doped phosphorene. *Physical Chemistry Chemical Physics*, **2017**, 19, 31796-31803
- 59 Structural stabilities and electronic structures of Ti atomic chains. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 30, 138-142
- 58 Structural optimization of PtPd alloy nanoparticles using an improved discrete particle swarm optimization algorithm. *Computer Physics Communications*, **2015**, 186, 11-18
- 57 First-principles studies on the structural and electronic properties of Li-ion battery cathode material CuF₂. *Solid State Communications*, **2012**, 152, 1703-1706
- 56 Atomic-scale insights into structural and thermodynamic stability of Pd-Ni bimetallic nanoparticles. *Physical Chemistry Chemical Physics*, **2016**, 18, 9847-54
- 55 Energetic and structural evolution of gold nanowire under heating process: A molecular dynamics study. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 3454-3458
- 54 Structural Design and Two-Dimensional Conductivity of Sheet-Tube Frameworks. *Journal of Physical Chemistry C*, **2010**, 114, 19673-19677
- 53 Comparative study of Cu₁₃ and Co₁₃ clusters deposition and diffusion on the Cu(001) surface. *Computational Materials Science*, **2010**, 48, 250-257
- 52 Novel electronic structures of superlattice composed of graphene and silicene. *Materials Research Bulletin*, **2014**, 50, 268-272

51	Thermal and shape stability of high-index-faceted rhodium nanoparticles: a molecular dynamics investigation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5751-7	3.6	10
50	Structure and stability of Fe-Pt bimetallic nanoparticles: Initial structure, composition and shape effects. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 1008-1015	5.7	10
49	Effect of Chemical Ordering on Thermal Stability of PtCo Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12007-12014	3.8	9
48	Cluster-based niching differential evolution algorithm for optimizing the stable structures of metallic clusters. <i>Computational Materials Science</i> , 2018 , 149, 416-423	3.2	9
47	An improved genetic algorithm for structural optimization of AuAg bimetallic nanoparticles. <i>Applied Soft Computing Journal</i> , 2018 , 73, 39-49	7.5	9
46	Morphology and structural stability of PtPd bimetallic nanoparticles. <i>Chinese Physics B</i> , 2015 , 24, 033601.2	1.2	9
45	Size-dependent elastic properties of single-walled ZnO nanotubes: A first-principles study. <i>Journal of Applied Physics</i> , 2011 , 109, 084325	2.5	9
44	The elastic behavior in Ni monocrystal: Nonlinear effects. <i>Solid State Communications</i> , 2008 , 146, 253-257.6	1.6	9
43	Cold welding of copper nanowires with single-crystalline and twinned structures: A comparison study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 329-332	3	8
42	Electrochemical Synthesis of Tetrahedral Rhodium Nanocrystals with Extraordinarily High Surface Energy and High Electrocatalytic Activity. <i>Angewandte Chemie</i> , 2014 , 126, 5197-5201	3.6	8
41	Structural studies of AuPd bimetallic nanoparticles by a genetic algorithm method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 70, 11-20	3	8
40	First-Principles Investigation on the Lithium Ion Insertion/Extraction in Trirutile Li_xFeF_3 . <i>Electrochemistry</i> , 2013 , 81, 12-15	1.2	8
39	A multi-populations multi-strategies differential evolution algorithm for structural optimization of metal nanoclusters. <i>Computer Physics Communications</i> , 2016 , 208, 64-72	4.2	8
38	Cluster analysis of accelerated molecular dynamics simulations: A case study of the decahedron to icosahedron transition in Pt nanoparticles. <i>Journal of Chemical Physics</i> , 2017 , 147, 152717	3.9	7
37	Structures and electronic properties of oxidized graphene from first-principles study. <i>Europhysics Letters</i> , 2014 , 105, 37005	1.6	7
36	The influence of grain size and temperature on the mechanical deformation of nanocrystalline materials: molecular dynamics simulation. <i>Chinese Physics B</i> , 2001 , 10, 407-412		6
35	Direct observations of shape fluctuation in long-time atomistic simulations of metallic nanoclusters. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
34	Atomic-scale insights into thermal stability of Pt ₃ Co nanoparticles: A comparison between disordered alloy and ordered intermetallics. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 629-635	5.7	6

33	Computational screening of pristine and functionalized ordered TiVC MXenes as highly efficient anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2021 , 13, 2995-3001	7.7	6
32	Thermal Stability of Unary to Quinary Noble-Metal/3d-Transition-Metal Alloy Nanoparticles from Molecular Dynamics Simulations: Implications for Multimetallic Catalysis. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5381-5389	5.6	5
31	Particle swarm optimization of the stable structure of tetrahedral Pt-based bimetallic nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 2965-2972	2.3	5
30	TiNi Monatomic Chains Stabilized by Alloying: a First-Principles Study. <i>Chinese Physics Letters</i> , 2006 , 23, 182-185	1.8	5
29	Surface-Induced Melting of Metal Nanoclusters. <i>Chinese Physics Letters</i> , 2004 , 21, 2171-2174	1.8	5
28	Molecular Dynamics Simulation of Microstructure of Nanocrystalline Copper. <i>Chinese Physics Letters</i> , 2001 , 18, 411-413	1.8	5
27	Structural Evolution of the Surface and Interface in Bimetallic High-Index Faceted Heterogeneous Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2454-2462	6.4	5
26	Basin Hopping Genetic Algorithm for Global Optimization of PtCo Clusters. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 2219-2228	6.1	4
25	Octadecahedral and dodecahedral iron nanoparticles: An atomistic simulation on stability and shape evolutions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 739-744	2.3	4
24	Spark-based improved Basin-Hopping Monte Carlo algorithm for structural optimization of alloy clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 464-470	2.3	4
23	Ultrawide photoresponse in ZnO/ZnSe coaxial nanowires with a threshold of 0.8 eV. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10788-10794	6.7	3
22	Structural and magnetic properties of Co-Pt clusters: A spin-polarized density functional study. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 503, 166651	2.8	3
21	Structural optimization of Fe nanoclusters based on multi-populations differential evolution algorithm. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	3
20	Solid-Liquid Coexistence in Trimetallic Heterostructured Nanoparticle Catalysts: Insights from Molecular Dynamics Simulations. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12369-12378	5.6	3
19	GPU-based DPSO algorithm for structural optimization of Pt-Co bimetallic nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 3123-3133	2.3	2
18	First-Principles Study of Effect of Strain on the Band Structure of ZnO Monolayer. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2015 , 31, 1677-1682	3.8	2
17	Shape-Controlled Synthesis of Metal Nanoparticles of High Surface Energy and Their Applications in Electrocatalysis 2012 , 117-165		2
16	Single Mn Atom Anchored on Nitrogen-Doped Graphene as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2021 , 27, 9686-9693	4.8	2

15	Shape Stability of Metallic Nanoplates: A Molecular Dynamics Study. <i>Nanoscale Research Letters</i> , 2019 , 14, 357	5	2
14	Computational screening of MBene monolayers with high electrocatalytic activity for the nitrogen reduction reaction. <i>Nanoscale</i> , 2021 , 13, 15002-15009	7.7	2
13	Oxygen adsorption on high-index faceted Pt nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 17323-17328	3.6	2
12	Boosting the Electrocatalytic Activity of FeCo Dual-Atom Catalysts for Oxygen Reduction Reaction by Ligand-Modification Engineering. <i>ChemCatChem</i> , 2021 , 13, 4645	5.2	2
11	Structural, magnetic, and electronic properties of small M-Pt (M=Fe, Co, and Ni) clusters: Insight from density-functional calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 512, 167047	2.8	1
10	Magnetism of Mg atomic chains on the NaCl(100) surface. <i>Solid State Communications</i> , 2011 , 151, 1912-1915	1.5	1
9	Magnetism of a free-standing W monoatomic sheet. <i>Solid State Sciences</i> , 2009 , 11, 2142-2148	3.4	1
8	Tolman Effect on Fluid Dynamics in Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2007 , 15, 417-426	1.8	1
7	Structural optimization and segregation behavior of quaternary alloy nanoparticles based on simulated annealing algorithm. <i>Chinese Physics B</i> , 2016 , 25, 053601	1.2	1
6	Molecular Dynamics Investigation on Thermal Stability and Shape Evolution of Pd-Au Heterostructured Nanorods: Implications for Catalysis. <i>ACS Applied Nano Materials</i> ,	5.6	1
5	A force sensing structure with orthogonal optical fiber loops for robot fingers. <i>Optics Communications</i> , 2021 , 484, 126686	2	0
4	Molecular Dynamics Simulations of Thermally Induced Surface and Shape Evolution of Concave Au Nanocubes: Implications for Catalysis. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9527-9535	5.6	0
3	Thermally activated phase transitions in Fe-Ni core-shell nanoparticles. <i>Frontiers of Physics</i> , 2019 , 14, 1	3.7	
2	Lower-Energy Structure Optimization of (C60)N Clusters Using an Improved Genetic Algorithm. <i>IEICE Transactions on Information and Systems</i> , 2013 , E96.D, 2726-2732	0.6	
1	A theoretical study of tunnelling conductance in ferromagnet/ PrOs4Sb12 junctions. <i>European Physical Journal B</i> , 2005 , 44, 137-143	1.2	