

Xiao Cheng Zeng

List of Publications by Year in descending order

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627
papers

45,833
citations

1799

103
h-index

3579

181
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all docs

645
docs citations

645
times ranked

37443
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect passivation in hybrid perovskite solar cells using quaternary ammonium halide anions and cations. <i>Nature Energy</i> , 2017, 2, .	39.5	1,694
2	A universal principle for a rational design of single-atom electrocatalysts. <i>Nature Catalysis</i> , 2018, 1, 339-348.	34.4	1,214
3	Formation of ordered ice nanotubes inside carbon nanotubes. <i>Nature</i> , 2001, 412, 802-805.	27.8	1,008
4	A droplet-based electricity generator with high instantaneous power density. <i>Nature</i> , 2020, 578, 392-396.	27.8	871
5	Bilayer Phosphorene: Effect of Stacking Order on Bandgap and Its Potential Applications in Thin-Film Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1289-1293.	4.6	762
6	Two-Dimensional Boron Monolayer Sheets. <i>ACS Nano</i> , 2012, 6, 7443-7453.	14.6	690
7	Tailoring Passivation Molecular Structures for Extremely Small Open-Circuit Voltage Loss in Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 5781-5787.	13.7	585
8	High-gain and Low-driving-voltage Photodetectors Based on Organolead Triiodide Perovskites. <i>Advanced Materials</i> , 2015, 27, 1912-1918.	21.0	560
9	Phosphorene Nanoribbons, Phosphorus Nanotubes, and van der Waals Multilayers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14051-14059.	3.1	544
10	Conjugated Lewis Base: Efficient Trap-passivation and Charge-extraction for Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604545.	21.0	543
11	Intrinsic Ferroelasticity and/or Multiferroicity in Two-Dimensional Phosphorene and Phosphorene Analogues. <i>Nano Letters</i> , 2016, 16, 3236-3241.	9.1	491
12	Planar-to-tubular structural transition in boron clusters: B ₂₀ as the embryo of single-walled boron nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 961-964.	7.1	490
13	Strain-dependent electronic and magnetic properties of MoS ₂ monolayer, bilayer, nanoribbons and nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13035.	2.8	435
14	Simultaneously Dual Modification of Ni-rich Layered Oxide Cathode for High-energy Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808825.	14.9	430
15	Highly stable and efficient all-inorganic lead-free perovskite solar cells with native-oxide passivation. <i>Nature Communications</i> , 2019, 10, 16.	12.8	430
16	Cesium Titanium(IV) Bromide Thin Films Based Stable Lead-free Perovskite Solar Cells. <i>Joule</i> , 2018, 2, 558-570.	24.0	403
17	Coexistence and transition between Cassie and Wenzel state on pillared hydrophobic surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8435-8440.	7.1	395
18	Nanosheet Supported Single-Metal Atom Bifunctional Catalyst for Overall Water Splitting. <i>Nano Letters</i> , 2017, 17, 5133-5139.	9.1	395

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19	Evidence of hollow golden cages. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8326-8330.	7.1	361
20	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 12465-12469.	13.8	356
21	Markedly Enhanced Oxygen Reduction Activity of Single-Atom Fe Catalysts via Integration with Fe Nanoclusters. ACS Nano, 2019, 13, 11853-11862.	14.6	340
22	MoS ₂ /MX ₂ heterobilayers: bandgap engineering <i>via</i> tensile strain or external electrical field. Nanoscale, 2014, 6, 2879-2886.	5.6	326
23	First-order transition in confined water between high-density liquid and low-density amorphous phases. Nature, 2000, 408, 564-567.	27.8	324
24	Earth-Abundant Nontoxic Titanium(IV)-based Vacancy-Ordered Double Perovskite Halides with Tunable 1.0 to 1.8 eV Bandgaps for Photovoltaic Applications. ACS Energy Letters, 2018, 3, 297-304.	17.4	314
25	Adsorption of O ₂ , H ₂ , CO, NH ₃ , and NO ₂ on ZnO Nanotube: A Density Functional Theory Study. Journal of Physical Chemistry C, 2008, 112, 5747-5755.	3.1	280
26	Free-Standing Two-Dimensional Ru Nanosheets with High Activity toward Water Splitting. ACS Catalysis, 2016, 6, 1487-1492.	11.2	276
27	Nine New Phosphorene Polymorphs with Non-Honeycomb Structures: A Much Extended Family. Nano Letters, 2015, 15, 3557-3562.	9.1	275
28	Structural Prediction of Thiolate-Protected Au ₃₈ : A Face-Fused Bi-icosahedral Au Core. Journal of the American Chemical Society, 2008, 130, 7830-7832.	13.7	272
29	Semimetallic molybdenum disulfide ultrathin nanosheets as an efficient electrocatalyst for hydrogen evolution. Nanoscale, 2014, 6, 8359-8367.	5.6	248
30	Heterojunction-Depleted Lead-Free Perovskite Solar Cells with Coarse-Grained Ba ₃ Ca ₃ CsSn ₃ Thin Films. Advanced Energy Materials, 2016, 6, 1601130.	19.5	247
31	Suppressed Ion Migration along the In-Plane Direction in Layered Perovskites. ACS Energy Letters, 2018, 3, 684-688.	17.4	240
32	Titanium Trisulfide Monolayer: Theoretical Prediction of a New Direct-Gap Semiconductor with High and Anisotropic Carrier Mobility. Angewandte Chemie - International Edition, 2015, 54, 7572-7576.	13.8	239
33	Wetting and Interfacial Properties of Water Nanodroplets in Contact with Graphene and Monolayer Boron Nitride Sheets. ACS Nano, 2012, 6, 2401-2409.	14.6	235
34	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. Angewandte Chemie, 2016, 128, 12653-12657.	2.0	233
35	Toward Eco-friendly and Stable Perovskite Materials for Photovoltaics. Joule, 2018, 2, 1231-1241.	24.0	224
36	Freezing of Confined Water: A Bilayer Ice Phase in Hydrophobic Nanopores. Physical Review Letters, 1997, 79, 5262-5265.	7.8	222

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37	Investigating the structural evolution of thiolate protected gold clusters from first-principles. <i>Nanoscale</i> , 2012, 4, 4054.	5.6	219
38	Exploration of High-Performance Single-Atom Catalysts on Support $M_{1-x}Fe_x$ for CO Oxidation via Computational Study. <i>ACS Catalysis</i> , 2015, 5, 544-552.	11.2	217
39	Lead-Free Mixed Tin and Germanium Perovskites for Photovoltaic Application. <i>Journal of the American Chemical Society</i> , 2017, 139, 8038-8043.	13.7	217
40	Tuning Electronic and Magnetic Properties of Early Transition-Metal Dichalcogenides via Tensile Strain. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7242-7249.	3.1	216
41	Mechanistic Origin of the High Performance of Yolk@Shell $Bi_2S_3@N$ -Doped Carbon Nanowire Electrodes. <i>ACS Nano</i> , 2018, 12, 12597-12611.	14.6	213
42	A Theoretical Study of Single-Atom Catalysis of CO Oxidation Using Au Embedded 2D h-BN Monolayer: A CO-Promoted O ₂ Activation. <i>Scientific Reports</i> , 2014, 4, 5441.	3.3	211
43	Bismuth Oxychalcogenides: A New Class of Ferroelectric/Ferroelastic Materials with Ultra High Mobility. <i>Nano Letters</i> , 2017, 17, 6309-6314.	9.1	208
44	On the phase diagram of water with density functional theory potentials: The melting temperature of ice Ih with the Perdew-Burke-Ernzerhof and Becke-Lee-Yang-Parr functionals. <i>Journal of Chemical Physics</i> , 2009, 130, 221102.	3.0	203
45	Mechanistic Study of the Persistent Luminescence of $CaAl_2O_4:Eu,Nd$. <i>Chemistry of Materials</i> , 2015, 27, 2195-2202.	6.7	186
46	CO ₂ Capture on h-BN Sheet with High Selectivity Controlled by External Electric Field. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6912-6917.	3.1	183
47	Catalytic Activities of Subnanometer Gold Clusters (Au_{16} – Au_{18}), <i>Tj ETQq1 1 0.784314 rgBT /Overlock 107</i> 7818-7829.	14.6	182
48	Tunable Magnetism in a Nonmetal-Substituted ZnO Monolayer: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11336-11342.	3.1	180
49	Type-I van der Waals heterostructure formed by MoS_2 and ReS_2 monolayers. <i>Nanoscale Horizons</i> , 2017, 2, 31-36.	8.0	179
50	CO Self-Promoting Oxidation on Nanosized Gold Clusters: Triangular Au_3 Active Site and CO Induced O–O Scission. <i>Journal of the American Chemical Society</i> , 2013, 135, 2583-2595.	13.7	178
51	Self-assembling subnanometer pores with unusual mass-transport properties. <i>Nature Communications</i> , 2012, 3, 949.	12.8	174
52	Long-Range Ordered Carbon Clusters: A Crystalline Material with Amorphous Building Blocks. <i>Science</i> , 2012, 337, 825-828.	12.6	173
53	A New Class of Folding Oligomers: α -Crescent Oligoamides. <i>Journal of the American Chemical Society</i> , 2000, 122, 4219-4220.	13.7	168
54	Multiwalled ice helices and ice nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19664-19667.	7.1	167

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55	Chemical Functionalization of Boron Nitride Nanotubes with NH ₃ and Amino Functional Groups. <i>Journal of the American Chemical Society</i> , 2006, 128, 12001-12006.	13.7	165
56	Continuous Grain-Boundary Functionalization for High-Efficiency Perovskite Solar Cells with Exceptional Stability. <i>CheM</i> , 2018, 4, 1404-1415.	11.7	165
57	Intrinsic electronic and transport properties of graphyne sheets and nanoribbons. <i>Nanoscale</i> , 2013, 5, 9264.	5.6	163
58	Thiolate-Protected Au ₂₀ (SR) ₁₆ Cluster: Prolate Au ₈ Core with New [Au ₃ (SR) ₄] Staple Motif. <i>Journal of the American Chemical Society</i> , 2009, 131, 13619-13621.	13.7	156
59	B ₂ C Graphene, Nanotubes, and Nanoribbons. <i>Nano Letters</i> , 2009, 9, 1577-1582.	9.1	154
60	Structures and stabilities of small silicon clusters: Ab initio molecular-orbital calculations of Si ₇ –Si ₁₁ . <i>Journal of Chemical Physics</i> , 2003, 118, 3558-3570.	3.0	153
61	Planar Pentacoordinate Carbon in CAl ₅ ⁺ : A Global Minimum. <i>Journal of the American Chemical Society</i> , 2008, 130, 10394-10400.	13.7	153
62	High-Level Ab Initio Electronic Structure Calculations of Water Clusters (H ₂ O) ₁₆ and (H ₂ O) ₁₇ : A New Global Minimum for (H ₂ O) ₁₆ . <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3122-3127.	4.6	152
63	Measurement of Contact-Angle Hysteresis for Droplets on Nanopillared Surface and in the Cassie and Wenzel States: A Molecular Dynamics Simulation Study. <i>ACS Nano</i> , 2011, 5, 6834-6842.	14.6	152
64	A Near-Infrared Emissive Alkynyl-Protected Au ₂₄ Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9683-9686.	13.8	152
65	Controlling Catalytic Properties of Pd Nanoclusters through Their Chemical Environment at the Atomic Level Using Isorecticular Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2016, 6, 3461-3468.	11.2	152
66	Creating nanocavities of tunable sizes: Hollow helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11583-11588.	7.1	149
67	Unraveling the Mechanisms of O ₂ Activation by Size-Selected Gold Clusters: Transition from Superoxo to Peroxo Chemisorption. <i>Journal of the American Chemical Society</i> , 2012, 134, 9438-9445.	13.7	149
68	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. <i>Nature</i> , 2020, 577, 60-63.	27.8	149
69	Detection of Novel Gaseous States at the Highly Oriented Pyrolytic Graphite–Water Interface. <i>Langmuir</i> , 2007, 23, 1778-1783.	3.5	148
70	A grand unified model for liganded gold clusters. <i>Nature Communications</i> , 2016, 7, 13574.	12.8	148
71	Gold-Caged Metal Clusters with Large HOMO–LUMO Gap and High Electron Affinity. <i>Journal of the American Chemical Society</i> , 2005, 127, 15680-15681.	13.7	137
72	Structures and relative stability of neutral gold clusters: Au _n (n=15–19). <i>Journal of Chemical Physics</i> , 2006, 125, 154303.	3.0	136

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73	Thermal conductivity of a two-dimensional phosphorene sheet: a comparative study with graphene. <i>Nanoscale</i> , 2015, 7, 18716-18724.	5.6	132
74	Distinct ice patterns on solid surfaces with various wettabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11285-11290.	7.1	132
75	Endohedral Silicon Fullerenes SiN(27 \pm 39). <i>Journal of the American Chemical Society</i> , 2004, 126, 13845-13849.	13.7	129
76	Perovskite Chalcogenides with Optimal Bandgap and Desired Optical Absorption for Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1700216.	19.5	128
77	CO Oxidation on TiO ₂ (110) Supported Subnanometer Gold Clusters: Size and Shape Effects. <i>Journal of the American Chemical Society</i> , 2013, 135, 19336-19346.	13.7	127
78	Metallic single-walled silicon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2664-2668.	7.1	124
79	Interlocked Catenane-Like Structure Predicted in Au ₂₄ (SR) ₂₀ : Implication to Structural Evolution of Thiolated Gold Clusters from Homoleptic Gold(I) Thiolates to Core-Stacked Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 3015-3024.	13.7	123
80	Band-Gap Engineering via Tailored Line Defects in Boron-Nitride Nanoribbons, Sheets, and Nanotubes. <i>ACS Nano</i> , 2012, 6, 4104-4112.	14.6	121
81	Validity of Tolman's equation: How large should a droplet be?. <i>Journal of Chemical Physics</i> , 1998, 109, 4063-4070.	3.0	120
82	Structures and stability of medium silicon clusters. II. Ab initio molecular orbital calculations of Si ₁₂ -Si ₂₀ . <i>Journal of Chemical Physics</i> , 2004, 120, 8985-8995.	3.0	120
83	Efficient Kinetic Macrocyclization. <i>Journal of the American Chemical Society</i> , 2009, 131, 2629-2637.	13.7	120
84	Polymorphism and polyamorphism in bilayer water confined to slit nanopore under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21240-21245.	7.1	120
85	Tunable Optical Properties and Charge Separation in CH ₃ NH ₃ Sn _x Pb _{1-x} I ₃ /TiO ₂ Nanoband-Based Planar Perovskites Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 8227-8236.	13.7	119
86	Probing the Structural Evolution of Medium-Sized Gold Clusters: Au ⁿ⁺ (n = 27-35). <i>Journal of the American Chemical Society</i> , 2010, 132, 6596-6605.	13.7	118
87	Transition-Metal Dihydride Monolayers: A New Family of Two-Dimensional Ferromagnetic Materials with Intrinsic Room-Temperature Half-Metallicity. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4260-4266.	4.6	118
88	Icosahedral Crown Gold Nanocluster Au ₄₃ Cu ₁₂ with High Catalytic Activity. <i>Nano Letters</i> , 2010, 10, 1055-1062.	9.1	115
89	CO Oxidation Catalyzed by Single-Walled Helical Gold Nanotube. <i>Nano Letters</i> , 2008, 8, 195-202.	9.1	113
90	Quantized Water Transport: Ideal Desalination through Graphyne-4 Membrane. <i>Scientific Reports</i> , 2013, 3, 3163.	3.3	113

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91	Highly Confined Water: Two-Dimensional Ice, Amorphous Ice, and Clathrate Hydrates. <i>Accounts of Chemical Research</i> , 2014, 47, 2505-2513.	15.6	113
92	CaP ₃ : A New Two-Dimensional Functional Material with Desirable Band Gap and Ultrahigh Carrier Mobility. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1728-1733.	4.6	112
93	Directly predicting limiting potentials from easily obtainable physical properties of graphene-supported single-atom electrocatalysts by machine learning. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5663-5670.	10.3	112
94	Motif Transition in Growth Patterns of Small to Medium-Sized Silicon Clusters. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1491-1494.	13.8	111
95	van der Waals trilayers and superlattices: modification of electronic structures of MoS ₂ by intercalation. <i>Nanoscale</i> , 2014, 6, 4566-4571.	5.6	111
96	New Mechanistic Pathways for Criegee "Water Chemistry at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2016, 138, 11164-11169.	13.7	111
97	Resolving the puzzle of single-atom silver dispersion on nanosized γ -Al ₂ O ₃ surface for high catalytic performance. <i>Nature Communications</i> , 2020, 11, 529.	12.8	111
98	Adsorption and Surface Reactivity on Single-Walled Boron Nitride Nanotubes Containing Stone-Wales Defects. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14105-14112.	3.1	110
99	Doping Golden Buckyballs: Cu@Au ₁₆ and Cu@Au ₁₇ Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2915-2918.	13.8	110
100	SLIPS-TENG: robust triboelectric nanogenerator with optical and charge transparency using a slippery interface. <i>National Science Review</i> , 2019, 6, 540-550.	9.5	110
101	Au ₄₂ : An Alternative Icosahedral Golden Fullerene Cage. <i>Journal of the American Chemical Society</i> , 2005, 127, 3698-3699.	13.7	109
102	Periodic Graphene Nanobuds. <i>Nano Letters</i> , 2009, 9, 250-256.	9.1	108
103	Metal-organic Kagome lattices M ₃ (2,3,6,7,10,11-hexaiminotriphenylene) (M = Tj ETQq1 1 0.784314 rg) <i>Physics</i> , 2015, 17, 5954-5958.	2.8	108
104	Hydrogen Storage in Pillared Li-Dispersed Boron Carbide Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8458-8463.	3.1	105
105	Exploration of Half Metallicity in Edge-Modified Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3937-3944.	3.1	105
106	Application of Electronic Counting Rules for Ligand-Protected Gold Nanoclusters. <i>Accounts of Chemical Research</i> , 2018, 51, 2739-2747.	15.6	105
107	Au ₃₄ : A Fluxional Core-Shell Cluster. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8228-8232.	3.1	103
108	Structural Transition of Gold Nanoclusters: From the Golden Cage to the Golden Pyramid. <i>ACS Nano</i> , 2009, 3, 1225-1230.	14.6	103

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109	Fabrication and understanding of Cu ₃ Si-Si@carbon@graphene nanocomposites as high-performance anodes for lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 22203-22214.	5.6	103
110	Self-Assembly and Properties of Nonmetalated Tetraphenyl-Porphyrin on Metal Substrates. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9408-9415.	3.1	101
111	Lead-Free Dionâ€“Jacobson Tin Halide Perovskites for Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 276-277.	17.4	101
112	Relative stability of planar versus double-ring tubular isomers of neutral and anionic boron cluster B ₂₀ and B ₂₀ ⁺ . <i>Journal of Chemical Physics</i> , 2006, 124, 154310.	3.0	100
113	Materials design of half-metallic graphene and graphene nanoribbons. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	100
114	Hydroxyl-decorated graphene systems as candidates for organic metal-free ferroelectrics, multiferroics, and high-performance proton battery cathode materials. <i>Physical Review B</i> , 2013, 87, .	3.2	100
115	Group IVB transition metal trichalcogenides: a new class of 2D layered materials beyond graphene. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 211-222.	14.6	100
116	Reversing Interfacial Catalysis of Ambipolar WSe ₂ Single Crystal. <i>Advanced Science</i> , 2020, 7, 1901382.	11.2	100
117	The Tolman Length: Is It Positive or Negative?. <i>Journal of the American Chemical Society</i> , 2005, 127, 15346-15347.	13.7	99
118	Ferroelectricity in Covalently functionalized Two-dimensional Materials: Integration of High-mobility Semiconductors and Nonvolatile Memory. <i>Nano Letters</i> , 2016, 16, 7309-7315.	9.1	99
119	Thermal Conductivity of Monolayer MoSe ₂ and MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 26067-26075.	3.1	99
120	Stable Three-Center Hydrogen Bonding in a Partially Rigidified Structure. <i>Chemistry - A European Journal</i> , 2001, 7, 4352-4357.	3.3	98
121	Icosahedral B ₁₂ -containing core-shell structures of B ₈₀ . <i>Chemical Communications</i> , 2010, 46, 3878.	4.1	96
122	Half-Metallicity in Hybrid Graphene/Boron Nitride Nanoribbons with Dihydrogenated Edges. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9442-9450.	3.1	96
123	Tuning the electronic properties of monolayer and bilayer PtSe ₂ via strain engineering. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3106-3112.	5.5	96
124	Insight into Chemistry on Cloud/Aerosol Water Surfaces. <i>Accounts of Chemical Research</i> , 2018, 51, 1229-1237.	15.6	96
125	Probing the Planar Tetra-, Penta-, and Hexacoordinate Carbon in Carbon-Boron Mixed Clusters. <i>Journal of the American Chemical Society</i> , 2008, 130, 2580-2592.	13.7	95
126	Al _x C Monolayer Sheets: Two-Dimensional Networks with Planar Tetracoordinate Carbon and Potential Applications as Donor Materials in Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2058-2065.	4.6	95

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127	The melting temperature of proton-disordered hexagonal ice: A computer simulation of 4-site transferable intermolecular potential model of water. <i>Journal of Chemical Physics</i> , 2000, 112, 8534-8538.	3.0	94
128	First-principles study of methane dehydrogenation on a bimetallic Cu/Ni(111) surface. <i>Journal of Chemical Physics</i> , 2009, 131, 174702.	3.0	94
129	Transition from one-dimensional water to ferroelectric ice within a supramolecular architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3481-3486.	7.1	94
130	Strong Aggregation and Directional Assembly of Aromatic Oligoamide Macrocycles. <i>Journal of the American Chemical Society</i> , 2011, 133, 18590-18593.	13.7	94
131	Ferroelectric hexagonal and rhombic monolayer ice phases. <i>Chemical Science</i> , 2014, 5, 1757-1764.	7.4	94
132	Nanoscale Hydrophobic Interaction and Nanobubble Nucleation. <i>Physical Review Letters</i> , 2004, 93, 185701.	7.8	93
133	Guest-free monolayer clathrate and its coexistence with two-dimensional high-density ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5718-5722.	7.1	93
134	Near-Barrierless Ammonium Bisulfate Formation via a Loop-Structure Promoted Proton-Transfer Mechanism on the Surface of Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 1816-1819.	13.7	93
135	Two-Dimensional Single-Layer Organic-Inorganic Hybrid Perovskite Semiconductors. <i>Advanced Energy Materials</i> , 2017, 7, 1601731.	19.5	93
136	Compression Limit of Two-Dimensional Water Constrained in Graphene Nanocapillaries. <i>ACS Nano</i> , 2015, 9, 12197-12204.	14.6	92
137	Magic-Number Gold Nanoclusters with Diameters from 1 to 3.5 nm: Relative Stability and Catalytic Activity for CO Oxidation. <i>Nano Letters</i> , 2015, 15, 682-688.	9.1	92
138	A new phase diagram of water under negative pressure: The rise of the lowest-density clathrate s-III. <i>Science Advances</i> , 2016, 2, e1501010.	10.3	92
139	Doping the Golden Cage Au ₁₆ - with Si, Ge, and Sn. <i>Journal of the American Chemical Society</i> , 2007, 129, 15136-15137.	13.7	90
140	Oxidation of a two-dimensional hexagonal boron nitride monolayer: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5545.	2.8	90
141	How does water freeze inside carbon nanotubes?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 314, 462-469.	2.6	89
142	Structural Evolution of Doped Gold Clusters: MAux ^x (M = Si, Ge, Sn; x = 5~8). <i>Journal of the American Chemical Society</i> , 2009, 131, 3396-3404.	13.7	89
143	Self-Assembly of Surfactants and Polymorphic Transition in Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 7916-7920.	13.7	87
144	Characterizing hydrophobicity of amino acid side chains in a protein environment via measuring contact angle of a water nanodroplet on planar peptide network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12946-12951.	7.1	87

#	ARTICLE	IF	CITATIONS
145	Double Perovskite Cs ₂ BBiX ₆ (B = Ag, Cu; X = Br, Cl)/TiO ₂ Heterojunction: An Efficient Pb-Free Perovskite Interface for Charge Extraction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4471-4480.	3.1	87
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