

Jin-Long Yang

List of Publications by Year in descending order

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526
papers

38,057
citations

2423

97
h-index

4419

172
g-index

533
all docs

533
docs citations

533
times ranked

31471
citing authors

#	ARTICLE	IF	CITATIONS
1	Partially oxidized atomic cobalt layers for carbon dioxide electroreduction to liquid fuel. <i>Nature</i> , 2016, 529, 68-71.	13.7	1,565
2	Metallic Few-Layered VS ₂ Ultrathin Nanosheets: High Two-Dimensional Conductivity for In-Plane Supercapacitors. <i>Journal of the American Chemical Society</i> , 2011, 133, 17832-17838.	6.6	1,014
3	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1944-1948.	7.2	888
4	Two-Dimensional Boron Monolayer Sheets. <i>ACS Nano</i> , 2012, 6, 7443-7453.	7.3	690
5	Half-Metallicity in Edge-Modified Zigzag Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2008, 130, 4224-4225.	6.6	640
6	Identification of single-atom active sites in carbon-based cobalt catalysts during electrocatalytic hydrogen evolution. <i>Nature Catalysis</i> , 2019, 2, 134-141.	16.1	629
7	Controlling the Kondo Effect of an Adsorbed Magnetic Ion Through Its Chemical Bonding. <i>Science</i> , 2005, 309, 1542-1544.	6.0	594
8	Bottom-up precise synthesis of stable platinum dimers on graphene. <i>Nature Communications</i> , 2017, 8, 1070.	5.8	466
9	Atomically dispersed iron hydroxide anchored on Pt for preferential oxidation of CO in H ₂ . <i>Nature</i> , 2019, 565, 631-635.	13.7	423
10	Dynamic oxygen adsorption on single-atomic Ruthenium catalyst with high performance for acidic oxygen evolution reaction. <i>Nature Communications</i> , 2019, 10, 4849.	5.8	416
11	Intrinsic Electric Fields in Two-dimensional Materials Boost the Solar-to-Hydrogen Efficiency for Photocatalytic Water Splitting. <i>Nano Letters</i> , 2018, 18, 6312-6317.	4.5	391
12	Giant Moisture Responsiveness of VS ₂ Ultrathin Nanosheets for Novel Touchless Positioning Interface. <i>Advanced Materials</i> , 2012, 24, 1969-1974.	11.1	364
13	Low-Temperature Growth of Graphene by Chemical Vapor Deposition Using Solid and Liquid Carbon Sources. <i>ACS Nano</i> , 2011, 5, 3385-3390.	7.3	353
14	Half-Metallicity in MnPSe ₃ Exfoliated Nanosheet with Carrier Doping. <i>Journal of the American Chemical Society</i> , 2014, 136, 11065-11069.	6.6	353
15	Enhanced photocatalytic mechanism for the hybrid g-C ₃ N ₄ /MoS ₂ nanocomposite. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7960-7966.	5.2	347
16	First-principles design of spintronics materials. <i>National Science Review</i> , 2016, 3, 365-381.	4.6	344
17	CrXTe ₃ (X = Si, Ge) nanosheets: two dimensional intrinsic ferromagnetic semiconductors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7071.	2.7	332
18	How Graphene Is Cut upon Oxidation?. <i>Journal of the American Chemical Society</i> , 2009, 131, 6320-6321.	6.6	323

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19	First-Principles Thermodynamics of Graphene Growth on Cu Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17782-17787.	1.5	317
20	Understanding of Strain Effects in the Electrochemical Reduction of CO ₂ : Using Pd Nanostructures as an Ideal Platform. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3594-3598.	7.2	303
21	Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <i>Advanced Materials</i> , 2017, 29, 1702428.	11.1	302
22	Will zigzag graphene nanoribbon turn to half metal under electric field?. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	299
23	Visualizing coherent intermolecular dipole-dipole coupling in real space. <i>Nature</i> , 2016, 531, 623-627.	13.7	284
24	Obtaining Two-Dimensional Electron Gas in Free Space without Resorting to Electron Doping: An Electride Based Design. <i>Journal of the American Chemical Society</i> , 2014, 136, 13313-13318.	6.6	280
25	Hydrogen-Incorporated TiS ₂ Ultrathin Nanosheets with Ultrahigh Conductivity for Stamp-Transferrable Electrodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 5144-5151.	6.6	273
26	Atomic-Level Insight into Optimizing the Hydrogen Evolution Pathway over a Co ₁ N ₄ Single-Site Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12191-12196.	7.2	269
27	Achieving Remarkable Activity and Durability toward Oxygen Reduction Reaction Based on Ultrathin Rh-Doped Pt Nanowires. <i>Journal of the American Chemical Society</i> , 2017, 139, 8152-8159.	6.6	265
28	Structural isomerism in gold nanoparticles revealed by X-ray crystallography. <i>Nature Communications</i> , 2015, 6, 8667.	5.8	258
29	Material Design for Photocatalytic Water Splitting from a Theoretical Perspective. <i>Advanced Materials</i> , 2018, 30, e1802106.	11.1	258
30	Single Mo ₁ (Cr ₁) Atom on Nitrogen-Doped Graphene Enables Highly Selective Electroreduction of Nitrogen into Ammonia. <i>ACS Catalysis</i> , 2019, 9, 3419-3425.	5.5	258
31	Highly Efficient Photocatalytic Water Splitting over Edge-Modified Phosphorene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 15429-15436.	6.6	244
32	Regulation of Coordination Number over Single Co Sites: Triggering the Efficient Electroreduction of CO ₂ . <i>Angewandte Chemie</i> , 2018, 130, 1962-1966.	1.6	244
33	Bipolar magnetic semiconductors: a new class of spintronics materials. <i>Nanoscale</i> , 2012, 4, 5680.	2.8	241
34	Wet Electrons at the H ₂ O/TiO ₂ (110) Surface. <i>Science</i> , 2005, 308, 1154-1158.	6.0	239
35	Distinguishing adjacent molecules on a surface using plasmon-enhanced Raman scattering. <i>Nature Nanotechnology</i> , 2015, 10, 865-869.	15.6	239
36	Proposed Photosynthesis Method for Producing Hydrogen from Dissociated Water Molecules Using Incident Near-Infrared Light. <i>Physical Review Letters</i> , 2014, 112, 018301.	2.9	237

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37	A first-principles study of gas adsorption on germanene. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22495-22498.	1.3	232
38	Electronic structures of SiC nanoribbons. <i>Journal of Chemical Physics</i> , 2008, 129, 174114.	1.2	222
39	Silicene as a highly sensitive molecule sensor for NH ₃ , NO and NO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6957.	1.3	221
40	Oxygen molecule dissociation on carbon nanostructures with different types of nitrogen doping. <i>Nanoscale</i> , 2012, 4, 1184-1189.	2.8	220
41	Graphene nanoribbon as a negative differential resistance device. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	219
42	Unconventional p-d Hybridization Interaction in PtGa Ultrathin Nanowires Boosts Oxygen Reduction Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 18083-18090.	6.6	216
43	Defects in Phosphorene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20474-20480.	1.5	215
44	Mono-cadmium vs Mono-mercury Doping of Au ₂₅ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2015, 137, 15350-15353.	6.6	211
45	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.	1.6	211
46	Stable Metallic 1Tâ€WS ₂ Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties. <i>Advanced Materials</i> , 2015, 27, 4837-4844.	11.1	207
47	A Simple Molecular Design Strategy for Two-Dimensional Covalent Organic Framework Capable of Visible-Light-Driven Water Splitting. <i>Journal of the American Chemical Society</i> , 2020, 142, 4508-4516.	6.6	207
48	Ultrafast Interfacial Proton-Coupled Electron Transfer. <i>Science</i> , 2006, 311, 1436-1440.	6.0	206
49	Mono-Mercury Doping of Au ₂₅ and the HOMO/LUMO Energies Evaluation Employing Differential Pulse Voltammetry. <i>Journal of the American Chemical Society</i> , 2015, 137, 9511-9514.	6.6	206
50	One-Dimensional Transition Metal~Benzene Sandwich Polymers:~ Possible Ideal Conductors for Spin Transport. <i>Journal of the American Chemical Society</i> , 2006, 128, 2310-2314.	6.6	202
51	Room-Temperature Ferromagnetism in Two-Dimensional Fe ₂ Si Nanosheet with Enhanced Spin-Polarization Ratio. <i>Nano Letters</i> , 2017, 17, 2771-2777.	4.5	200
52	The electronic structure of oxygen atom vacancy and hydroxyl impurity defects on titanium dioxide (110) surface. <i>Journal of Chemical Physics</i> , 2009, 130, 124502.	1.2	197
53	Role of point defects on the reactivity of reconstructed anatase titanium dioxide (001) surface. <i>Nature Communications</i> , 2013, 4, 2214.	5.8	184
54	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.	1.5	183

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55	Strain effect on electronic structures of graphene nanoribbons: A first-principles study. <i>Journal of Chemical Physics</i> , 2008, 129, 074704.	1.2	182
56	Tunable Magnetism in a Nonmetal-Substituted ZnO Monolayer: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11336-11342.	1.5	180
57	Effects of stacking order, layer number and external electric field on electronic structures of few-layer C ₂ N-h2D. <i>Nanoscale</i> , 2015, 7, 14062-14070.	2.8	177
58	Edge-Modified Phosphorene Nanoflake Heterojunctions as Highly Efficient Solar Cells. <i>Nano Letters</i> , 2016, 16, 1675-1682.	4.5	176
59	Adding Two Active Silver Atoms on Au ₂₅ Nanoparticle. <i>Nano Letters</i> , 2015, 15, 1281-1287.	4.5	171
60	Observation of Photocatalytic Dissociation of Water on Terminal Ti Sites of TiO ₂ (110)-1 Å ⁻¹ Surface. <i>Journal of the American Chemical Society</i> , 2012, 134, 9978-9985.	6.6	160
61	One-Nanometer-Thick PtNiRh Trimetallic Nanowires with Enhanced Oxygen Reduction Electrocatalysis in Acid Media: Integrating Multiple Advantages into One Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 16159-16167.	6.6	160
62	Sub-nanometre control of the coherent interaction between a single molecule and a plasmonic nanocavity. <i>Nature Communications</i> , 2017, 8, 15225.	5.8	158
63	Molecular Oxygen Adsorption Behaviors on the Rutile TiO ₂ (110)-1 Å ⁻¹ Surface: An in Situ Study with Low-Temperature Scanning Tunneling Microscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 2002-2009.	6.6	155
64	A First-Principles Study on Electron Donor and Acceptor Molecules Adsorbed on Phosphorene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2871-2878.	1.5	152
65	Sub-nanometre resolution in single-molecule photoluminescence imaging. <i>Nature Photonics</i> , 2020, 14, 693-699.	15.6	152
66	Two-dimensional van der Waals heterojunctions for functional materials and devices. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12289-12297.	2.7	151
67	Mechanism for Negative Differential Resistance in Molecular Electronic Devices: Local Orbital Symmetry Matching. <i>Physical Review Letters</i> , 2007, 99, 146803.	2.9	150
68	Site-specific photocatalytic splitting of methanol on TiO ₂ (110). <i>Chemical Science</i> , 2010, 1, 575.	3.7	150
69	Î-Phosphorene: a two dimensional material with a highly negative Poisson's ratio. <i>Nanoscale</i> , 2017, 9, 850-855.	2.8	150
70	Rational Design of Cathode Structure for High Rate Performance Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2015, 15, 5443-5448.	4.5	147
71	Negative differential-resistance device involving two C60 molecules. <i>Applied Physics Letters</i> , 2000, 77, 3595-3597.	1.5	136
72	Half-metallicity in hybrid BCN nanoribbons. <i>Journal of Chemical Physics</i> , 2008, 129, 084712.	1.2	133

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73	Electronic Structure Engineering via On-Plane Chemical Functionalization: A Comparison Study on Two-Dimensional Polysilane and Graphane. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16741-16746.	1.5	133
74	Mn ₂ C monolayer: a 2D antiferromagnetic metal with high Néel temperature and large spin-orbit coupling. <i>Nanoscale</i> , 2016, 8, 12939-12945.	2.8	131
75	New insight into the electronic shell of Au ₃₈ (SR) ₂₄ : a superatomic molecule. <i>Nanoscale</i> , 2013, 5, 1475.	2.8	128
76	Single layer of MX ₃ (M = Ti, Zr; X = S, Se, Te): a new platform for nano-electronics and optics. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18665-18669.	1.3	128
77	Porous silicene as a hydrogen purification membrane. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5753.	1.3	127
78	Semihydrogenated BN Sheet: A Promising Visible-light Driven Photocatalyst for Water Splitting. <i>Scientific Reports</i> , 2013, 3, 1858.	1.6	127
79	Azide Passivation of Black Phosphorus Nanosheets: Covalent Functionalization Affords Ambient Stability Enhancement. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1479-1483.	7.2	123
80	Band-gap scaling of graphene nanohole superlattices. <i>Physical Review B</i> , 2009, 80, .	1.1	121
81	Narrow Graphene Nanoribbons Made Easier by Partial Hydrogenation. <i>Nano Letters</i> , 2009, 9, 4025-4030.	4.5	120
82	Structures and magnetism of mono-palladium and mono-platinum doped Au ₂₅ (PET) ₁₈ nanoclusters. <i>Chemical Communications</i> , 2016, 52, 9873-9876.	2.2	120
83	Crystal and Solution Photoluminescence of MAg ₂₄ (SR) ₁₈ (M = Ag/Pd/Pt/Au) Nanoclusters and Some Implications for the Photoluminescence Mechanisms. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13848-13853.	1.5	120
84	Two-Dimensional Phosphorus Porous Polymorphs with Tunable Band Gaps. <i>Journal of the American Chemical Society</i> , 2016, 138, 7091-7098.	6.6	119
85	The g-C ₃ N ₄ /C ₂ N Nanocomposite: A g-C ₃ N ₄ -Based Water-Splitting Photocatalyst with Enhanced Energy Efficiency. <i>ChemPhysChem</i> , 2016, 17, 2100-2104.	1.0	118
86	Tunable Schottky contacts in hybrid graphene-phosphorene nanocomposites. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4756-4761.	2.7	116
87	Electronic Structures and Magnetic Properties of GaN Sheets and Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11390-11394.	1.5	115
88	Theoretical study of small two-dimensional gold clusters. <i>Physical Review B</i> , 2003, 67, .	1.1	114
89	Effects of interlayer coupling and electric fields on the electronic structures of graphene and MoS ₂ heterobilayers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1776-1781.	2.7	114
90	Direct Z-Scheme Water Splitting Photocatalyst Based on Two-Dimensional Van Der Waals Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5419-5424.	2.1	114

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91	Superatom Networks in Thiolate-Protected Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9035-9039.	7.2	113
92	Highly Confined Water: Two-Dimensional Ice, Amorphous Ice, and Clathrate Hydrates. <i>Accounts of Chemical Research</i> , 2014, 47, 2505-2513.	7.6	113
93	Understanding of Strain Effects in the Electrochemical Reduction of CO ₂ : Using Pd Nanostructures as an Ideal Platform. <i>Angewandte Chemie</i> , 2017, 129, 3648-3652.	1.6	112
94	Two-dimensional van der Waals nanocomposites as Z-scheme type photocatalysts for hydrogen production from overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18892-18898.	5.2	108
95	Direct hydrothermal synthesis of monoclinic VO ₂ (M) single-domain nanorods on large scale displaying magnetocaloric effect. <i>Journal of Materials Chemistry</i> , 2011, 21, 4509.	6.7	106
96	Single-Molecule Chemistry of Metal Phthalocyanine on Noble Metal Surfaces. <i>Accounts of Chemical Research</i> , 2010, 43, 954-962.	7.6	105
97	Why the Band Gap of Graphene Is Tunable on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3142-3146.	1.5	103
98	Half-Metallicity in Organic Single Porous Sheets. <i>Journal of the American Chemical Society</i> , 2012, 134, 5718-5721.	6.6	101
99	2D Heterostructured Nanofluidic Channels for Enhanced Desalination Performance of Graphene Oxide Membranes. <i>ACS Nano</i> , 2021, 15, 7586-7595.	7.3	101
100	Hydrogen adsorption on zigzag (8,0) boron nitride nanotubes. <i>Journal of Chemical Physics</i> , 2004, 121, 8481.	1.2	97
101	Electronic and optical properties of graphene and graphitic ZnO nanocomposite structures. <i>Journal of Chemical Physics</i> , 2013, 138, 124706.	1.2	97
102	Activating Edge Sites on Pd Catalysts for Selective Hydrogenation of Acetylene via Selective Ga ₂ O ₃ Decoration. <i>ACS Catalysis</i> , 2016, 6, 3700-3707.	5.5	97
103	Icosahedral B ₁₂ -containing core-shell structures of B ₈₀ . <i>Chemical Communications</i> , 2010, 46, 3878.	2.2	96
104	Half-Metallicity in Hybrid Graphene/Boron Nitride Nanoribbons with Dihydrogenated Edges. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9442-9450.	1.5	96
105	Helium separation via porous silicene based ultimate membrane. <i>Nanoscale</i> , 2013, 5, 9062.	2.8	96
106	Band Structure Tuning of TiO ₂ for Enhanced Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7451-7457.	1.5	95
107	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.	2.1	95
108	Intrinsic Quantum Anomalous Hall Effect with In-Plane Magnetization: Searching Rule and Material Prediction. <i>Physical Review Letters</i> , 2018, 121, 246401.	2.9	95

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109	Ferroelectric hexagonal and rhombic monolayer ice phases. <i>Chemical Science</i> , 2014, 5, 1757-1764.	3.7	94
110	Chiral selective tunneling induced negative differential resistance in zigzag graphene nanoribbon: A theoretical study. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	93
111	Electrically driven single-photon emission from an isolated single molecule. <i>Nature Communications</i> , 2017, 8, 580.	5.8	92
112	Theoretical study of the molecular and electronic structure of methanol on a TiO_2 surface. <i>Physical Review B</i> , 2009, 80, .	1.1	91
113	Structure of Graphene Oxide: Thermodynamics versus Kinetics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11991-11995.	1.5	91
114	Visually constructing the chemical structure of a single molecule by scanning Raman picoscopy. <i>National Science Review</i> , 2019, 6, 1169-1175.	4.6	91
115	Oxidation of a two-dimensional hexagonal boron nitride monolayer: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5545.	1.3	90
116	Bimetal Doping in Nanoclusters: Synergistic or Counteractive?. <i>Chemistry of Materials</i> , 2016, 28, 8240-8247.	3.2	90
117	Two-dimensional multilayer M_2CO_2 ($\text{M} = \text{Sc}, \text{Zr}, \text{Hf}$) as photocatalysts for hydrogen production from water splitting: a first principles study. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24972-24980.	5.2	90
118	Quasi Pd1Ni single-atom surface alloy catalyst enables hydrogenation of nitriles to secondary amines. <i>Nature Communications</i> , 2019, 10, 4998.	5.8	90
119	Highly-efficient heterojunction solar cells based on two-dimensional tellurene and transition metal dichalcogenides. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7430-7436.	5.2	90
120	Atomic-Level Construction of Tensile-Strained PdFe Alloy Surface toward Highly Efficient Oxygen Reduction Electrocatalysis. <i>Nano Letters</i> , 2020, 20, 1403-1409.	4.5	89
121	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO_2 . <i>Nature Communications</i> , 2022, 13, 2806.	5.8	89
122	Design and control of electron transport properties of single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15259-15263.	3.3	88
123	Oxidation states of graphene: Insights from computational spectroscopy. <i>Journal of Chemical Physics</i> , 2009, 131, 244505.	1.2	88
124	Shape-Dependent Reducibility of Cuprous Oxide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6676-6680.	1.5	88
125	Lattice Mismatch Induced Nonlinear Growth of Graphene. <i>Journal of the American Chemical Society</i> , 2012, 134, 6045-6051.	6.6	88
126	Room-Temperature Half-Metallicity in $\text{La}(\text{Mn},\text{Zn})\text{AsO}$ Alloy via Element Substitutions. <i>Journal of the American Chemical Society</i> , 2014, 136, 5664-5669.	6.6	88

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127	First-principles study of two-dimensional van der Waals heterojunctions. Computational Materials Science, 2016, 112, 518-526.	1.4	88
128	What Are the Adsorption Sites for CO on the Reduced TiO ₂ (110)-1 Å ⁻¹ Surface?. Journal of the American Chemical Society, 2009, 131, 7958-7959.	6.6	87
129	Ultrahigh Infrared Photoresponse from Core-Shell Single-Domain VO ₂ /V ₂ O ₅ Heterostructure in Nanobeam. Advanced Functional Materials, 2014, 24, 1821-1830.	7.8	87
130	Communication: New insight into electronic shells of metal clusters: Analogues of simple molecules. Journal of Chemical Physics, 2013, 138, 141101.	1.2	86
131	Understanding Single-Atom Catalysis in View of Theory. JACS Au, 2021, 1, 2130-2145.	3.6	86
132	Hexagonal Cu ₂ SnS ₃ with metallic character: Another category of conducting sulfides. Applied Physics Letters, 2007, 91, .	1.5	85
133	Structural, electronic, and optical properties of hybrid silicene and graphene nanocomposite. Journal of Chemical Physics, 2013, 139, 154704.	1.2	84
134	Blockage of ultrafast and directional diffusion of Li atoms on phosphorene with intrinsic defects. Nanoscale, 2016, 8, 4001-4006.	2.8	84
135	A rationally designed two-dimensional MoSe ₂ /Ti ₂ CO ₂ heterojunction for photocatalytic overall water splitting: simultaneously suppressing electron-hole recombination and photocorrosion. Chemical Science, 2021, 12, 2863-2869.	3.7	82
136	Electronic and Magnetic Properties of Metal Phthalocyanines on Au(111) Surface: A First-Principles Study. Journal of Physical Chemistry C, 2008, 112, 13650-13655.	1.5	81
137	Porous Boron Nitride with Tunable Pore Size. Journal of Physical Chemistry Letters, 2014, 5, 393-398.	2.1	81
138	Kernel Tuning and Nonuniform Influence on Optical and Electrochemical Gaps of Bimetal Nanoclusters. Journal of the American Chemical Society, 2018, 140, 3487-3490.	6.6	81
139	Modulating oxygen coverage of Ti ₃ C ₂ T _x MXenes to boost catalytic activity for HCOOH dehydrogenation. Nature Communications, 2020, 11, 4251.	5.8	81
140	Electronic and magnetic properties of V-doped anatase TiO ₂ from first principles. Physical Review B, 2006, 74, .	1.1	80
141	Unusual Metallic Microporous Boron Nitride Networks. Journal of Physical Chemistry Letters, 2013, 4, 3484-3488.	2.1	80
142	Bipolar magnetic materials for electrical manipulation of spin-polarization orientation. Physical Chemistry Chemical Physics, 2013, 15, 15793.	1.3	78
143	Direct observation of single-molecule hydrogen-bond dynamics with single-bond resolution. Nature Communications, 2018, 9, 807.	5.8	78
144	Nonclassical Behavior in the Capacitance of a Nanojunction. Physical Review Letters, 2001, 86, 5321-5324.	2.9	77

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145	Realizing Two-Dimensional Magnetic Semiconductors with Enhanced Curie Temperature by Antiaromatic Ring Based Organometallic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 109-112.	6.6	77
146	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021, 371, 818-822.	6.0	77
147	Deformation-induced site selectivity for hydrogen adsorption on boron nitride nanotubes. <i>Physical Review B</i> , 2004, 69, .	1.1	75
148	Exploration of Structures of Two-Dimensional Boron-Silicon Compounds with sp^2 Silicon. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 561-567.	2.1	75
149	Single-layer cadmium chalcogenides: promising visible-light driven photocatalysts for water splitting. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17029-17036.	1.3	75
150	Carbon Dimers as the Dominant Feeding Species in Epitaxial Growth and Morphological Phase Transition of Graphene on Different Cu Substrates. <i>Physical Review Letters</i> , 2015, 114, 216102.	2.9	73
151	Communication: Coalescence of carbon atoms on Cu (111) surface: Emergence of a stable bridging-metal structure motif. <i>Journal of Chemical Physics</i> , 2010, 133, 071101.	1.2	72
152	MAGNETISM IN GRAPHENE SYSTEMS. <i>Nano</i> , 2008, 03, 433-442.	0.5	70
153	Graphene Thickness Control via Gas-Phase Dynamics in Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10557-10562.	1.5	70
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