

Hu Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166
papers

3,040
citations

31
h-index

45
g-index

174
ext. papers

4,269
ext. citations

6.8
avg, IF

5.74
L-index

#	Paper	IF	Citations
166	Defects-engineered tailoring of tri-doped interlinked metal-free bifunctional catalyst with lower gibbs free energy of OER/HER intermediates for overall water splitting. <i>Materials Today Chemistry</i> , 2022 , 23, 100634	6.2	17
165	Porous aza-doped graphene-analogous 2D material a unique catalyst for CO2 conversion to formic-acid by hydrogenation and electroreduction approaches. <i>Molecular Catalysis</i> , 2022 , 524, 112285	3.3	2
164	Metal-organic framework-derived three-dimensional CoSe ₂ /Cd _{0.8} Zn _{0.2} S Schottky junction for highly efficient photocatalytic H ₂ evolution. <i>Applied Surface Science</i> , 2022 , 593, 153420	6.7	0
163	Direct Z-scheme MoSe/TiO heterostructure with improved piezoelectric and piezo-photocatalytic performance.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 637-651	9.3	1
162	Accelerating CO ₂ reduction on novel double perovskite oxide with sulfur, carbon incorporation: Synergistic electronic and chemical engineering. <i>Chemical Engineering Journal</i> , 2022 , 446, 137161	14.7	1
161	Single-layer Mo ₅ Te ₈ A new polymorph of layered transition-metal chalcogenide. <i>2D Materials</i> , 2021 , 8, 015006	5.9	3
160	High Anisotropic Optoelectronics in Two Dimensional Layered PbSnX (X = S/Se). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10574-10580	6.4	0
159	Reformation of thiophene-functionalized phthalocyanine isomers for defect passivation to achieve stable and efficient perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 67, 263-263	12	5
158	Tunable double Weyl phonons driven by chiral point group symmetry. <i>Physical Review B</i> , 2021 , 103,	3.3	4
157	Unconventional line defects engineering in two-dimensional boron monolayers. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
156	Highly Degenerate Ground States in a Frustrated Antiferromagnetic Kagome Lattice in a Two-Dimensional Metal-Organic Framework. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3733-3739	6.4	9
155	Photo-induced dye-sensitized BiPO ₄ /BiOCl system for stably treating persistent organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119841	21.8	24
154	Three-Dimensional Dirac Phonons with Inversion Symmetry. <i>Physical Review Letters</i> , 2021 , 126, 185301	7.4	8
153	Giant magnetoresistance effect due to the tunneling between quantum anomalous Hall edge states. <i>Applied Physics Letters</i> , 2021 , 118, 222401	3.4	0
152	Avoiding Sabatier conflict in bifunctional heterogeneous catalysts for the WGS reaction. <i>Chem</i> , 2021 , 7, 1271-1283	16.2	1
151	Dual Defect-Passivation Using Phthalocyanine for Enhanced Efficiency and Stability of Perovskite Solar Cells. <i>Small</i> , 2021 , 17, e2005216	11	12
150	Highly efficient H ₂ generation over Cu ₂ Se decorated Cd _{0.95} Se _{0.05} nanowires by photocatalytic water reduction. <i>Chemical Engineering Journal</i> , 2021 , 409, 128157	14.7	4

149	All-boron planar ferromagnetic structures: from clusters to monolayers. <i>Nanoscale</i> , 2021 , 13, 9881-9887	7.7	1
148	Identification of electronic descriptors for catalytic activity of transition-metal and non-metal doped MoS. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15101-15106	3.6	0
147	Defective/graphitic synergy in a heteroatom-interlinked-triggered metal-free electrocatalyst for high-performance rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18222-18230	13	41
146	Structural Evolution and Underlying Mechanism of Single-Atom Centers on MoC(100) Support during Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17075-17084	9.5	0
145	Symmetry-enforced straight nodal-line phonons. <i>Physical Review B</i> , 2021 , 104,	3.3	9
144	Prominently enhanced corrosive gas NO ₂ resistibility for silicone rubber composite coatings by incorporation of functional g-C ₃ N ₄ nanosheets. <i>Progress in Organic Coatings</i> , 2021 , 157, 106292	4.8	1
143	Classification and materials realization of topologically robust nodal ring phonons. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
142	Single Iridium Atom Doped NiP Catalyst for Optimal Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13605-13615	16.4	32
141	Anchoring an Fe Dimer on Nitrogen-Doped Graphene toward Highly Efficient Electrocatalytic Ammonia Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43632-43640	9.5	4
140	A Novel 2D Co ₃ (HADQ) ₂ Metal-Organic Framework as a Highly Active and Stable Electrocatalyst for Acidic Oxygen Reduction. <i>Chemical Engineering Journal</i> , 2021 , 132642	14.7	5
139	Stability and Catalytic Performance of Single-Atom Supported on Ti CO for Low-Temperature CO Oxidation: A First-Principles Study. <i>ChemPhysChem</i> , 2021 , 22, 2352-2361	3.2	0
138	Developing Proton-Conductive Metal Coordination Polymer as Highly Efficient Electrocatalyst toward Oxygen Reduction. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9197-9204	6.4	4
137	Symmetry-Assisted Protection and Compensation of Hidden Spin Polarization in Centrosymmetric Systems. <i>Chinese Physics Letters</i> , 2020 , 37, 087105	1.8	6
136	Topological Quantum States in Magnetic Oxides. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4036-4042	4.2	3
135	The effect of DMPO on the formation of hydroxyl radicals on the rutile TiO(110) surface. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13129-13135	3.6	5
134	On-Surface Cascade Reaction Based on Successive Debromination via Metal-Organic Coordination Template. <i>Langmuir</i> , 2020 , 36, 6286-6291	4	8
133	Ideal type-III nodal-ring phonons. <i>Physical Review B</i> , 2020 , 101,	3.3	16
132	Symmetry-Protected Topological Triangular Weyl Complex. <i>Physical Review Letters</i> , 2020 , 124, 105303	7.4	21

131	Surface Adsorption and Vacancy in Tuning the Properties of Tellurene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19110-19115	9.5	9
130	Strain-tunable out-of-plane polarization in two-dimensional materials. <i>Physical Review B</i> , 2020 , 101,	3.3	4
129	Ultrahigh-Loading of Ir Single Atoms on NiO Matrix to Dramatically Enhance Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7425-7433	16.4	186
128	Unraveling the oxide layer on Mo ₂ C as the active center for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 389, 461-467	7.3	13
127	Axial Modification of Cobalt Complexes on Heterogeneous Surface with Enhanced Electron Transfer for Carbon Dioxide Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19162-19167	16.4	38
126	Three-terminal Weyl complex with double surface arcs in a cubic lattice. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	5
125	Quantum Confined Tomonaga-Luttinger Liquid in MoSe Nanowires Converted from an Epitaxial MoSe Monolayer. <i>Nano Letters</i> , 2020 , 20, 2094-2099	11.5	17
124	Robust Topological States in Bi ₂ Se ₃ against Surface Oxidation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6253-6259	3.8	1
123	CoSe ₂ modified Se-decorated CdS nanowire Schottky heterojunctions for highly efficient photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020 , 389, 124431	14.7	26
122	Realizing graphene-like Dirac cones in triangular boron sheets by chemical functionalization. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2798-2805	7.1	7
121	Hybridization-induced gapped and gapless states on the surface of magnetic topological insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	10
120	Weyl fermions in ferromagnetic high-temperature phase of K ₂ Cr ₈ O ₁₆ . <i>New Journal of Physics</i> , 2020 , 22, 073062	2.9	0
119	A Shallow Acceptor of Phosphorous Doped in MoSe ₂ Monolayer. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900830	6.4	8
118	Sub-3 nm Intermetallic Ordered PtIn Clusters for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2020 , 7, 1901279	13.6	32
117	On-surface Synthesis of a Semiconducting 2D Metal-Organic Framework Cu(CO) Exhibiting Dispersive Electronic Bands. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2669-2673	16.4	27
116	Intrinsic Ferromagnetic Semiconductors in Two-Dimensional Alkali-Based Chromium Chalcogenides. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3853-3858	4	3
115	Boosting the oxygen evolution reaction using defect-rich ultra-thin ruthenium oxide nanosheets in acidic media. <i>Energy and Environmental Science</i> , 2020 , 13, 5143-5151	35.4	45
114	Charge Density Modulation and the Luttinger Liquid State in MoSe Mirror Twin Boundaries. <i>ACS Nano</i> , 2020 , 14, 10716-10722	16.7	5

113	Dirac fermions in the antiferromagnetic spintronics material CuMnAs. <i>Physical Review B</i> , 2020 , 102, 3-3	2
112	Two-Dimensional Dirac Semimetals without Inversion Symmetry. <i>Physical Review Letters</i> , 2020 , 125, 116402	0
111	Two-Dimensional Metal-Phosphorus Network. <i>Matter</i> , 2020 , 2, 111-118	12.7 23
110	Versatile and Highly Efficient Controls of Reversible Topotactic Metal/Insulator Transitions through Proton Intercalation. <i>Advanced Functional Materials</i> , 2019 , 29, 1907072	15.6 17
109	Identifying Multinuclear Organometallic Intermediates in On-Surface [2+2] Cycloaddition Reactions. <i>Angewandte Chemie</i> , 2019 , 131, 16637-16641	3.6 1
108	Rational Design Principles of the Quantum Anomalous Hall Effect in Superlattice-like Magnetic Topological Insulators. <i>Physical Review Letters</i> , 2019 , 123, 096401	7.4 46
107	Two-Dimensional Li-Based Ternary Chalcogenides for Photocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6061-6066	6.4 17
106	Few-layer transition metal dichalcogenides (MoS ₂ , WS ₂ , and WSe ₂) for water splitting and degradation of organic pollutants: Understanding the piezocatalytic effect. <i>Nano Energy</i> , 2019 , 66, 104083	17.1 77
105	Synthesis and characterization of a single-layer conjugated metal-organic structure featuring a non-trivial topological gap. <i>Nanoscale</i> , 2019 , 11, 878-881	7.7 25
104	An essential descriptor for the oxygen evolution reaction on reducible metal oxide surfaces. <i>Chemical Science</i> , 2019 , 10, 3340-3345	9.4 37
103	New Family of Two-Dimensional Group-(II ₃ V ₂) Photoelectric Materials. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16851-16856	3.8 3
102	Enhanced visible-light-driven photocatalytic hydrogen generation using NiCo ₂ S ₄ /CdS nanocomposites. <i>Chemical Engineering Journal</i> , 2019 , 378, 122089	14.7 41
101	Surface-Dependent Chemoselectivity in C-C Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8356-8361	16.4 3
100	Kinetically Controlled Synthesis of Four- and Six-Member Cyclic Products via Sequential Aryl-Aryl Coupling on a Au(111) Surface. <i>ChemPhysChem</i> , 2019 , 20, 2292-2296	3.2 6
99	Multiphotoluminescence from a Triphenylamine Derivative and Its Application in White Organic Light-Emitting Diodes Based on a Single Emissive Layer. <i>Advanced Materials</i> , 2019 , 31, e1900613	24 19
98	Insights into the unusual semiconducting behavior in low-dimensional boron. <i>Nanoscale</i> , 2019 , 11, 7866-7874	2
97	New Family of Two-Dimensional Ternary Photoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14457-14462	9.5 20
96	Robust Twin Pairs of Weyl Fermions in Ferromagnetic Oxides. <i>Physical Review Letters</i> , 2019 , 122, 057205	7.4 6

95	Ideal Nodal Line Semimetal in a Two-Dimensional Boron Bilayer. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4977-4983	3.8	19
94	Symmetry-Protected Ideal Type-II Weyl Phonons in CdTe. <i>Physical Review Letters</i> , 2019 , 123, 065501	7.4	31
93	NiSe as Co-Catalyst with CdS: Nanocomposites for High-Performance Photodriven Hydrogen Evolution under Visible-Light Irradiation. <i>ChemPlusChem</i> , 2019 , 84, 999-1010	2.8	7
92	Tunable ferromagnetic Weyl fermions from a hybrid nodal ring. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	11
91	Single Fe atoms anchored by short-range ordered nanographene boost oxygen reduction reaction in acidic media. <i>Nano Energy</i> , 2019 , 66, 104164	17.1	46
90	Identifying Multinuclear Organometallic Intermediates in On-Surface [2+2] Cycloaddition Reactions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16485-16489	16.4	6
89	Asymmetric valley polarization and photoluminescence in MoS/MoO heterostructure. <i>Optics Express</i> , 2019 , 27, 38451-38462	3.3	0
88	Selective on-surface covalent coupling based on metal-organic coordination template. <i>Nature Communications</i> , 2019 , 10, 70	17.4	41
87	Visible light driven selective oxidation of amines to imines with BiOCl: Does oxygen vacancy concentration matter?. <i>Applied Catalysis B: Environmental</i> , 2018 , 228, 87-96	21.8	169
86	Tunable magnetism in the LaAlO ₃ /SrTiO ₃ heterostructure: Insights from first-principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 98, 120-124	3	5
85	Stabilizing and Organizing Bi Cu and Bi Cu Nanoclusters in Two-Dimensional Metal-Organic Networks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4617-4621	16.4	10
84	Intrinsic Role of Excess Electrons in Surface Reactions on Rutile TiO ₂ (110): Using Water and Oxygen as Probes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8270-8276	3.8	8
83	The role of boundary conditions in tuning the electronic properties of the (0 0 1) LaAlO ₃ /SrTiO ₃ interface. <i>Computational Materials Science</i> , 2018 , 149, 354-359	3.2	5
82	Heterolytic dissociative adsorption state of dihydrogen favored by interfacial defects. <i>Applied Surface Science</i> , 2018 , 433, 862-868	6.7	9
81	Nodal line fermions in magnetic oxides. <i>Physical Review B</i> , 2018 , 97,	3.3	17
80	Oxidation-Induced Topological Phase Transition in Monolayer 1T'-WTe. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4783-4788	6.4	12
79	Three-dimensional quantum anomalous Hall effect in ferromagnetic insulators. <i>Physical Review B</i> , 2018 , 98,	3.3	18
78	Hole doping in epitaxial MoSe ₂ monolayer by nitrogen plasma treatment. <i>2D Materials</i> , 2018 , 5, 041005	5.9	12

77	Ferromagnetic Weyl fermions in CrO ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	16
76	Turning copper metal into a Weyl semimetal. <i>Physical Review B</i> , 2018 , 97,	3.3	4
75	Adsorption Induced Indirect-to-Direct Band Gap Transition in Monolayer Blue Phosphorus. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15792-15798	3.8	9
74	An electron compensation mechanism for the polymorphism of boron monolayers. <i>Nanoscale</i> , 2018 , 10, 13410-13416	7.7	11
73	Topological Rashba-like edge states in large-gap quantum spin Hall insulators. <i>Physical Review Materials</i> , 2018 , 2,	3.2	1
72	Facile synthesis of SnO ₂ hierarchical porous nanosheets from graphene oxide sacrificial scaffolds for high-performance gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 492-500	8.5	67
71	Controllable dissociation of HO on a CeO(111) surface. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1575-1582	3.6	5
70	Extremely High Mobilities in Two-Dimensional Group-VA Binary Compounds with Large Conversion Efficiency for Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27590-27596	3.8	10
69	Recipe for Dirac Phonon States with a Quantized Valley Berry Phase in Two-Dimensional Hexagonal Lattices. <i>Nano Letters</i> , 2018 , 18, 7755-7760	11.5	26
68	Large-gap quantum anomalous Hall phase in hexagonal organometallic frameworks. <i>Physical Review B</i> , 2018 , 98,	3.3	11
67	Ideal intersecting nodal-ring phonons in bcc C ₈ . <i>Physical Review B</i> , 2018 , 98,	3.3	27
66	Controlling the Reaction Steps of Bifunctional Molecules 1,5-Dibromo-2,6-dimethylnaphthalene on Different Substrates. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13001-13008	3.8	12
65	Quantum Effects and Phase Tuning in Epitaxial Hexagonal and Monoclinic MoTe Monolayers. <i>ACS Nano</i> , 2017 , 11, 3282-3288	16.7	32
64	Emergence of topological nodal loops in alkaline-earth hexaborides XB (X = Ca, Sr, and Ba) under pressure. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8210-8215	3.6	16
63	Splitting methanol on ultra-thin MgO(100) films deposited on a Mo substrate. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7245-7251	3.6	10
62	Mechanically-Controlled Reversible Spin Crossover of Single Fe-Porphyrin Molecules. <i>ACS Nano</i> , 2017 , 11, 6295-6300	16.7	23
61	Stable sandwich structures of two-dimensional iron borides FeB _x alloy: a first-principles calculation. <i>RSC Advances</i> , 2017 , 7, 30320-30326	3.7	4
60	Properties of rare-earth iron garnets from first principles. <i>Physical Review B</i> , 2017 , 95,	3.3	29

59	Phonon-mediated superconductivity in Mg intercalated bilayer borophenes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29237-29243	3.6	24
58	Remarkably Strong Chemisorption of Nitric Oxide on Insulating Oxide Films Promoted by Hybrid Structure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21482-21490	3.8	9
57	First-principles study on the initial decomposition process of CHNHPbI. <i>Journal of Chemical Physics</i> , 2017 , 147, 124702	3.9	7
56	Absolute determination of optical constants by reflection electron energy loss spectroscopy. <i>Physical Review B</i> , 2017 , 95,	3.3	17
55	Recipe for generating Weyl semimetals with extended topologically protected features. <i>Physical Review B</i> , 2017 , 96,	3.3	5
54	The synchronous improvement of strength and plasticity (SISP) in new Ni-Co based disc superalloys by controlling stacking fault energy. <i>Scientific Reports</i> , 2017 , 7, 8046	4.9	17
53	A (001) dominated conjugated polymer with high-performance of hydrogen evolution under solar light irradiation. <i>Chemical Communications</i> , 2017 , 53, 10536-10539	5.8	26
52	Zhao et al. Reply. <i>Physical Review Letters</i> , 2017 , 118, 239602	7.4	2
51	The prediction of a family group of two-dimensional node-line semimetals. <i>Nanoscale</i> , 2017 , 9, 13112-13118	4.7	43
50	Two-Dimensional Semiconducting Boron Monolayers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17233-17236	16.4	34
49	Ferromagnetic Weyl semimetal phase in a tetragonal structure. <i>Physical Review B</i> , 2017 , 96,	3.3	35
48	High Reactivity of the ZnO(0001) Polar Surface: The Role of Oxygen Adatoms. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15711-15718	3.8	7
47	One-dimensional phosphorus chain and two-dimensional blue phosphorene grown on Au(111) by molecular-beam epitaxy. <i>Physical Review Materials</i> , 2017 , 1,	3.2	67
46	A Practical Criterion for Screening Stable Boron Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11950-11955	3.8	12
45	Role of surface adsorption in tuning the properties of black phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2017 , 20, 112-117	3.6	14
44	Generation of highly reactive oxygen species on metal-supported MgO(100) thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25373-25379	3.6	13
43	Observation and Analysis of Ordered and Disordered Structures on the ZnO(0001) Polar Surface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26915-26921	3.8	5
42	Size-, electric-field-, and frequency-dependent third-order nonlinear optical properties of hydrogenated silicon nanoclusters. <i>Scientific Reports</i> , 2016 , 6, 28067	4.9	17

41	The nucleation and growth of borophene on the Ag (111) surface. <i>Nano Research</i> , 2016 , 9, 2616-2622	10	66
40	High-coverage stable structures of 3d transition metal intercalated bilayer graphene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14244-51	3.6	9
39	Unusual dissociative adsorption of H ₂ over stoichiometric MgO thin film supported on molybdenum. <i>Applied Surface Science</i> , 2016 , 366, 166-172	6.7	13
38	The Enhancement of Surface Reactivity on CeO ₂ (111) Mediated by Subsurface Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27917-27924	3.8	11
37	Surface reactivity enhancement by O dissociation on a single-layer MgO film deposited on metal substrate. <i>Journal of Chemical Physics</i> , 2016 , 145, 164701	3.9	2
36	New approaches for calculating absolute surface energies of wurtzite (0001)/(000 1̄): A study of ZnO and GaN. <i>Journal of Applied Physics</i> , 2016 , 119, 205302	2.5	30
35	Strain-induced water dissociation on supported ultrathin oxide films. <i>Scientific Reports</i> , 2016 , 6, 22853	4.9	18
34	Controllable dissociations of PH ₃ molecules on Si(001). <i>Nanotechnology</i> , 2016 , 27, 135704	3.4	4
33	Quasi-One-Dimensional Metal-Insulator Transitions in Compound Semiconductor Surfaces. <i>Physical Review Letters</i> , 2016 , 117, 116101	7.4	5
32	Comment on "Interplay between Water and TiO ₂ Anatase (101) Surface with Subsurface Oxygen Vacancy". <i>Physical Review Letters</i> , 2015 , 115, 149601	7.4	7
31	Theoretical studies of geometry asymmetry in tellurium nanostructures: intrinsic dipole, charge separation, and semiconductor/metal transition. <i>RSC Advances</i> , 2014 , 4, 44004-44010	3.7	2
30	Investigation on In Situ Tensile Behavior of Superalloy Bicrystals with Different GB Misorientations. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 3876-3881	2.3	5
29	Stabilizing forces acting on ZnO polar surfaces: STM, LEED, and DFT. <i>Physical Review B</i> , 2014 , 89,	3.3	42
28	The characteristics of floccs and zeta potential in nano-TiO ₂ system under different coagulation conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 452, 181-188	5.1	12
27	Comparative optical study of colloidal anatase titania nanorods and atomically thin wires. <i>Nanoscale</i> , 2013 , 5, 1465-9	7.7	15
26	Interaction of O ₂ with reduced rutile TiO ₂ (110) surface. <i>Surface Science</i> , 2013 , 610, 33-41	1.8	17
25	Tuning the electronic and magnetic properties of zigzag silicene nanoribbons by edge hydrogenation and doping. <i>RSC Advances</i> , 2013 , 3, 24075	3.7	51
24	Antibacterial and photocatalytic activity of TiO ₂ and ZnO nanomaterials in phosphate buffer and saline solution. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 5565-73	5.7	35

23	Theoretical studies of the passivants' effect on the Si(x)Ge(1-x) nanowires: composition profiles, diameter, shape, and electronic properties. <i>Journal of Chemical Physics</i> , 2013 , 139, 154713	3.9	
22	Substrate mediated stabilization of methylphosphonic acid on ZnO non-polar surfaces'. <i>Surface Science</i> , 2012 , 606, 289-292	1.8	5
21	Theoretical investigation of structural stability and electronic properties of hydrogenated silicon nanocrystals: Size, shape, and surface reconstruction. <i>Physical Review B</i> , 2012 , 86,	3.3	11
20	Ground states of group-IV nanostructures: Magic structures of diamond and silicon nanocrystals. <i>Physical Review B</i> , 2011 , 83,	3.3	13
19	Splitting Water on Metal Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19710-19715	3.8	37
18	Surface Defects-Induced p-type Conduction of Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18453-18458	3.8	27
17	Stabilizing and activating dopants in <112> silicon nanowires by alkene adsorptions: A first-principles study. <i>Applied Physics Letters</i> , 2011 , 98, 073115	3.4	7
16	First-principles calculations of atomic and electronic properties of ZnO nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2581-2593	1.3	7
15	Interaction of O ₂ , H ₂ O, N ₂ , and O ₃ with stoichiometric and reduced ZnO(101̄0) surface. <i>Physical Review B</i> , 2010 , 82,	3.3	20
14	Tuning Electronic Structures of ZnO Nanowires by Surface Functionalization: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8861-8866	3.8	32
13	Surface passivation-induced strong ferromagnetism of zinc oxide nanowires. <i>Chemistry - A European Journal</i> , 2010 , 16, 13072-6	4.8	7
12	N-doped ZnO nanowires: Surface segregation, the effect of hydrogen passivation and applications in spintronics. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2195-2201	1.3	22
11	First-principles study of silicon bulk and nanowire (111) surfaces terminated with trihydrides: Symmetric, rotated, and tilted. <i>Physical Review B</i> , 2009 , 80,	3.3	1
10	An energetic stability predictor of hydrogen-terminated Si nanostructures. <i>Applied Physics Letters</i> , 2009 , 95, 253106	3.4	14
9	Hydrogen and oxygen adsorption on ZnO nanowires: A first-principles study. <i>Physical Review B</i> , 2009 , 79,	3.3	46
8	First-Principles Study of the Structural Stability and Electronic Properties of ZnS Nanowires. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20291-20294	3.8	10
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6	Structural and electronic properties of ZnO nanotubes from density functional calculations. <i>Nanotechnology</i> , 2007 , 18, 485713	3.4	68

5	First-principles calculations of reconstructed [0001] ZnO nanowires. <i>Physical Review B</i> , 2007 , 76,	3.3	56
4	Density-functional theory calculations of bare and passivated triangular-shaped ZnO nanowires. <i>Applied Physics Letters</i> , 2007 , 91, 031914	3.4	40
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2	Atomic force microscopy study of small-size nanotubular polymer thin films. <i>Journal of Materials Research</i> , 1999 , 14, 1084-1090	2.5	4
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