List of Publications by Year in descending order

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MINCWEN 7HAO

#	Article	IF	CITATIONS
1	Two-dimensional Dirac materials: Tight-binding lattice models and material candidates. ChemPhysMater, 2023, 2, 30-42.	2.8	15
2	Efficient anisotropic desalination by layer-stacked black phosphorus carbide (α-PC) membrane. Desalination, 2022, 522, 115422.	8.2	9
3	Ferromagnetic coupling in a two-dimensional Cairo pentagonal Ni2(TCNQ)2 lattice. Journal of Materiomics, 2022, 8, 627-632.	5.7	1
4	Ultrafine zirconium boride nanoparticles constructed bidirectional catalyst for ultrafast and long-lived lithium-sulfur batteries. Energy Storage Materials, 2022, 45, 130-141.	18.0	34
5	pH-switchable nanozyme cascade catalysis: a strategy for spatial–temporal modulation of pathological wound microenvironment to rescue stalled healing in diabetic ulcer. Journal of Nanobiotechnology, 2022, 20, 12.	9.1	50
6	Nanophysical Antimicrobial Strategies: A Rational Deployment of Nanomaterials and Physical Stimulations in Combating Bacterial Infections. Advanced Science, 2022, 9, e2105252.	11.2	56
7	Structural and energetic features of the dimerization of the main proteinase of SARS-CoV-2 using molecular dynamic simulations. Physical Chemistry Chemical Physics, 2022, 24, 4324-4333.	2.8	2
8	Highly-anisotropic plasmons in two-dimensional hyperbolic copper borides. Optics Express, 2022, 30, 5596.	3.4	6
9	Manipulating Electrocatalytic Polysulfide Redox Kinetics by 1D Core–Shell Like Composite for Lithium–Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	47
10	Screening of Transition-Metal Single-Atom Catalysts Anchored on Covalent–Organic Frameworks for Efficient Nitrogen Fixation. ACS Applied Materials & Interfaces, 2022, 14, 1024-1033.	8.0	32
11	Sub-nanometer-sized carbon nanoparticle shows higher biocompatibility to DNA than nanometer-sized nanoparticles. Journal Physics D: Applied Physics, 2022, 55, 295401.	2.8	1
12	Strain-tunable self-passivated porous phosphorene for high-efficiency helium separation. Journal Physics D: Applied Physics, 2022, 55, 315501.	2.8	1
13	Photocatalytic hydrogen production and storage in carbon nanotubes: a first-principles study. RSC Advances, 2022, 12, 17029-17035.	3.6	6
14	Two-dimensional transition metal borides as highly efficient N2 fixation catalysts. Applied Surface Science, 2021, 536, 147742.	6.1	58
15	Anomalous plasmons in a two-dimensional Dirac nodal-line Lieb lattice. Nanoscale Advances, 2021, 3, 1127-1135.	4.6	6
16	Multi-functional photocatalytic activity of transition-metal tetraaza[14]annulene frameworks. Journal of Materials Chemistry A, 2021, 9, 4221-4229.	10.3	12
17	Photo-assisted high performance single atom electrocatalysis of the N ₂ reduction reaction by a Mo-embedded covalent organic framework. Journal of Materials Chemistry A, 2021, 9, 19949-19957.	10.3	27
18	Key residues of the receptor binding domain in the spike protein of SARS-CoV-2 mediating the interactions with ACE2: a molecular dynamics study. Nanoscale, 2021, 13, 9364-9370.	5.6	22

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19	Interface-enhanced CO ₂ capture <i>via</i> the synthetic effects of a nanomaterial-supported ionic liquid thin film. Nanoscale Advances, 2021, 3, 1397-1403.	4.6	9
20	Spontaneous DNA translocation through a van der Waals heterostructure nanopore for single-molecule detection. Nanoscale Advances, 2021, 3, 5941-5947.	4.6	12
21	Giant negative Poisson's ratio in two-dimensional V-shaped materials. Nanoscale Advances, 2021, 3, 4554-4560.	4.6	15
22	Defect effects and electronic structure regulation in low-dimensional materials. Chinese Science Bulletin, 2021, 66, 1998-2009.	0.7	0
23	Floquet–Dirac fermions in monolayer graphene by Wannier functions. Journal of Physics Condensed Matter, 2021, 33, 145701.	1.8	2
24	Prediction of intrinsic topological superconductivity in Mn-doped GeTe monolayer from first-principles. Npj Computational Materials, 2021, 7, .	8.7	15
25	Defect-Induced Double-Stranded DNA Unwinding on Graphene. Journal of Physical Chemistry B, 2021, 125, 2833-2840.	2.6	6
26	Monolayer Fe ₃ GeX ₂ (X = S, Se, and Te) as Highly Efficient Electrocatalysts for Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11845-11851.	8.0	45
27	Prediction of crossing nodal-lines and large intrinsic spin Hall conductivity in topological Dirac semimetal Ta3As family. Npj Computational Materials, 2021, 7, .	8.7	14
28	Direct Z-scheme photocatalytic CO2 conversion to solar fuels in a two-dimensional C2N/aza-CMP heterostructure. Applied Surface Science, 2021, 541, 148630.	6.1	19
29	Inâ€situ Nanoâ€Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 15381-15389.	13.8	54
30	Inâ€situ Nanoâ€Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie, 2021, 133, 15509-15517.	2.0	7
31	Efficient isotropic water desalination in anisotropic lamellar nano-channels formed by layered black phosphorus membrane. Desalination, 2021, 504, 114962.	8.2	16
32	Frontispiz: Inâ€situ Nano rystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie, 2021, 133, .	2.0	0
33	Frontispiece: Inâ€situ Nano rystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, .	13.8	1
34	Construction and electrochemical mechanism investigation of hierarchical core—shell like composite as high performance anode for potassium ion batteries. Nano Research, 2021, 14, 3552-3561.	10.4	21
35	Stable multifunctional single-atom catalysts adsorbed on pyrazine-modified graphyne. Applied Surface Science, 2021, 553, 149464.	6.1	32
36	Highly Efficient Photocatalytic CO ₂ Reduction in Two-Dimensional Ferroelectric CulnP ₂ S ₆ Bilayers. ACS Applied Materials & Interfaces, 2021, 13, 34486-34494.	8.0	39

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37	Undamped plasmon modes and enhanced superconductivity in metal diborides. New Journal of Physics, 2021, 23, 073036.	2.9	3
38	Multiple Dirac cones and Lifshitz transition in a two-dimensional Cairo lattice as a Hawking evaporation analogue. Journal of Physics Condensed Matter, 2021, 33, 365001.	1.8	5
39	Spin-Gapless States in Two-Dimensional Molecular Ferromagnet Fe ₂ (TCNQ) ₂ . Journal of Physical Chemistry Letters, 2021, 12, 7921-7927.	4.6	4
40	Laser-driven anisotropic and nonlinear Rashba spin splitting in GaAs monolayer. Physical Review B, 2021, 104, .	3.2	1
41	Bi-atom active sites embedded in a two-dimensional covalent organic framework for efficient nitrogen reduction reaction. Applied Surface Science, 2021, 563, 150352.	6.1	25
42	Regulating polysulfide intermediates by ultrathin Co-Bi nanosheet electrocatalyst in lithiumâ^'sulfur batteries. Nano Today, 2021, 40, 101246.	11.9	34
43	The role of sp-hybridized boron atoms in the highly efficient photocatalytic N ₂ reduction activity of boron-doped triphenylene–graphdiyne. Journal of Materials Chemistry A, 2021, 9, 26077-26085.	10.3	12
44	Self-assembly of ultra-small-sized carbon nanoparticles in lipid membrane disrupts its integrity. Nanoscale Advances, 2021, 4, 163-172.	4.6	6
45	Corrugation effect, Dirac cone splitting, and plasmon properties of biased twisted bilayer graphene. Physical Review B, 2021, 104, .	3.2	4
46	OnionNet-2: A Convolutional Neural Network Model for Predicting Protein-Ligand Binding Affinity Based on Residue-Atom Contacting Shells. Frontiers in Chemistry, 2021, 9, 753002.	3.6	39
47	Floquet-engineered half-valley-metal state in two-dimensional gapped Dirac materials. Physical Review B, 2021, 104, .	3.2	4
48	New Spiral Form of Carbon Nitride with Ultrasoftness and Tunable Electronic Structures. ACS Omega, 2021, 6, 516-522.	3.5	3
49	Efficient Helium Separation with Two-Dimensional Metal–Organic Framework Fe/Ni-PTC: A Theoretical Study. Membranes, 2021, 11, 927.	3.0	1
50	Robust broadband directional plasmons in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MoO</mml:mi><mml:msub><m monolayer. Physical Review B, 2021, 104, .</m </mml:msub></mml:mrow></mml:math 	ml:n si.2 Cl <td>mnd:mi><mn< td=""></mn<></td>	mn d: mi> <mn< td=""></mn<>
51	Two-dimensional XC ₆ -enes (X = Ge, Sn, Pb) with moderate band gaps, biaxial negative Poisson's ratios, and high carrier mobility. Physical Chemistry Chemical Physics, 2021, 23, 26468-26475.	2.8	2
52	Prediction of topological superconductivity from type-IV, -III, -II, and -I′ nodal points induced by Rashba spin-orbit coupling. Physical Review B, 2021, 104, .	3.2	4
53	Two-Dimensional Conductive Metal–Organic Frameworks as Highly Efficient Electrocatalysts for Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 61205-61214.	8.0	15
54	Highly-efficient overall water splitting in 2D Janus group-III chalcogenide multilayers: the roles of intrinsic electric filed and vacancy defects. Science Bulletin, 2020, 65, 27-34.	9.0	54

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55	Metal-free highly efficient photocatalysts for overall water splitting: C ₃ N ₅ multilayers. Nanoscale, 2020, 12, 306-315.	5.6	57
56	Tunable ferroelectricity and antiferromagnetism <i>via</i> ferroelastic switching in an FeOOH monolayer. Journal of Materials Chemistry C, 2020, 8, 13982-13989.	5.5	18
57	Tunable valley splitting and anomalous valley Hall effect in VTe ₂ /Ga ₂ S ₃ heterostructures. Journal of Materials Chemistry C, 2020, 8, 14895-14901.	5.5	16
58	Stable Multifunctional Single-Atom Catalysts Resulting from the Synergistic Effect of Anchored Transition-Metal Atoms and Host Covalent–Organic Frameworks. Journal of Physical Chemistry C, 2020, 124, 17675-17683.	3.1	46
59	Serendipity for Topological Insulator as Multifunctional Electrocatalyst. ACS Applied Energy Materials, 2020, 3, 8929-8936.	5.1	5
60	Computational studies on triphenyldiyne as a two-dimensional visible-light-driven photocatalyst for overall water splitting. Physical Chemistry Chemical Physics, 2020, 22, 20061-20068.	2.8	4
61	Mild lipid extraction and anisotropic cell membrane penetration of α-phase phosphorene carbide nanoribbons by molecular dynamics simulation studies. Physical Chemistry Chemical Physics, 2020, 22, 23268-23275.	2.8	7
62	Tuning the binding behaviors of a protein YAP65WW domain on graphenic nano-sheets with boron or nitrogen atom doping. Nanoscale Advances, 2020, 2, 4539-4546.	4.6	7
63	Transition-metal monochalcogenide nanowires: highly efficient bi-functional catalysts for the oxygen evolution/reduction reactions. Nanoscale, 2020, 12, 12883-12890.	5.6	8
64	Ferroelectricity and multiferroicity in two-dimensional Sc ₂ P ₂ Se ₆ and ScCrP ₂ Se ₆ monolayers. Physical Chemistry Chemical Physics, 2020, 22, 7489-7496.	2.8	17
65	Synergistic trifunctional electrocatalysis of pyridinic nitrogen and single transition-metal atoms anchored on pyrazine-modified graphdiyne. Science Bulletin, 2020, 65, 995-1002.	9.0	34
66	Tunable Valley Polarization in a Multiferroic CuCrP ₂ Te ₆ Monolayer. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000008.	2.4	13
67	Anisotropic protein diffusion on nanosurface. Nanoscale, 2020, 12, 5209-5216.	5.6	15
68	Multifunctional electrocatalytic activity of coronene-based two-dimensional metal-organic frameworks: TM-PTC. Applied Surface Science, 2020, 511, 145393.	6.1	18
69	Orientational DNA binding and directed transport on nanomaterial heterojunctions. Nanoscale, 2020, 12, 5217-5226.	5.6	29
70	High-efficiency helium separation through an inorganic graphenylene membrane: a theoretical study. Physical Chemistry Chemical Physics, 2020, 22, 9789-9795.	2.8	32
71	Understanding CO2 capture kinetics and energetics by ionic liquids with molecular dynamics simulation. RSC Advances, 2020, 10, 13968-13974.	3.6	7
72	Prediction of a ternary two-dimensional pentagonal Zn2C2P2 monolayer for photocatalytic water splitting with high carriers mobility. Applied Surface Science, 2020, 518, 146197.	6.1	13

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73	Bifunctional HER/OER or OER/ORR Catalytic Activity of Two-Dimensional TM ₃ (HITP) ₂ with TM = Fe–Zn. Journal of Physical Chemistry C, 2020, 124, 9350-9359.	3.1	67
74	Inversion/Mirror Symmetry-Protected Dirac Cones in Distorted Ruby Lattices. Chinese Physics Letters, 2020, 37, 127102.	3.3	2
75	Low-loss hyperbolic dispersion and anisotropic plasmonic excitation in nodal-line semimetallic yttrium nitride. Optics Express, 2020, 28, 22076.	3.4	8
76	Strain-tunable CO ₂ storage by black phosphorene and α-PC from combined first principles and molecular dynamics studies. Physical Chemistry Chemical Physics, 2019, 21, 20107-20117.	2.8	11
77	First-principles design of highly-efficient earth-abundant electrocatalysts for hydrogen evolution reaction: TiF3 and its analogs. Applied Surface Science, 2019, 495, 143623.	6.1	13
78	Spontaneous full photocatalytic water splitting on 2D MoSe ₂ /SnSe ₂ and WSe ₂ /SnSe ₂ vdW heterostructures. Nanoscale, 2019, 11, 14836-14843.	5.6	156
79	Enhancing superconductivity in bulk βâ^Bi2Pd by negative pressure induced by quantum electronic stress. Physical Review B, 2019, 100, .	3.2	4
80	Bifunctional Electrocatalytic Activity of Bis(iminothiolato)nickel Monolayer for Overall Water Splitting. Journal of Physical Chemistry C, 2019, 123, 25651-25656.	3.1	17
81	Dirac cones in a snub trihexagonal tiling lattice with reflective symmetry breaking. Journal of Physics Condensed Matter, 2019, 31, 155001.	1.8	5
82	Valley polarization and ferroelectricity in a two-dimensional GaAsC ₆ monolayer. Physical Chemistry Chemical Physics, 2019, 21, 3954-3959.	2.8	7
83	Intrinsic multiferroicity in two-dimensional VOCl ₂ monolayers. Nanoscale, 2019, 11, 1103-1110.	5.6	62
84	Porous-hollow nanorods constructed from alternate intercalation of carbon and MoS2 monolayers for lithium and sodium storage. Nano Research, 2019, 12, 1912-1920.	10.4	39
85	Tuning the electronic and magnetic properties of MoS2 nanotubes with vacancy defects. RSC Advances, 2019, 9, 17203-17210.	3.6	12
86	Tungsten boride: a 2D multiple Dirac semimetal for the hydrogen evolution reaction. Journal of Materials Chemistry C, 2019, 7, 8868-8873.	5.5	52
87	Hydrogen Confined in a Single Wall Carbon Nanotube Becomes a Metallic and Superconductive Nanowire under High Pressure. Nano Letters, 2019, 19, 2537-2542.	9.1	9
88	Two-dimensional graphyne-like carbon nitrides: Moderate band gaps, high carrier mobility, high flexibility and type-II band alignment. Carbon, 2019, 149, 234-241.	10.3	38
89	Li-III-VI bilayers for efficient photocatalytic overall water splitting: the role of intrinsic electric field. Journal of Materials Chemistry A, 2019, 7, 26123-26130.	10.3	40
90	Serendipity of a topological nontrivial band gap in the 2D borophene subunit lattice with broken mirror symmetry. Physical Chemistry Chemical Physics, 2019, 21, 22526-22530.	2.8	1

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91	Prediction of a flexible anode material for Li/Na ion batteries: Phosphorous carbide monolayer (α-PC). Carbon, 2019, 141, 444-450.	10.3	70
92	A Photoresponsive Rutile TiO ₂ Heterojunction with Enhanced Electron–Hole Separation for Highâ€Performance Hydrogen Evolution. Advanced Materials, 2019, 31, e1806596.	21.0	240
93	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCoâ€nitrides Nanoparticle/NiCo ₂ O ₄ Nanoflake/graphite Fibers. Advanced Science, 2019, 6, 1801829.	11.2	122
94	An unprecedented high-temperature-tolerance 2D laminar MXene membrane for ultrafast hydrogen sieving. Journal of Membrane Science, 2019, 569, 117-123.	8.2	87
95	Reversible out-of-plane spin texture in a two-dimensional ferroelectric material for persistent spin helix. Physical Review Materials, 2019, 3, .	2.4	39
96	Hyperbolic dispersion and negative refraction in a metal-organic framework Cu-BHT. Physical Review Materials, 2019, 3, .	2.4	9
97	Tunable broadband hyperbolic light dispersion in metal diborides. Optics Express, 2019, 27, 36911.	3.4	12
98	Strain-induced tunable negative differential resistance in triangle graphene spirals. Nanotechnology, 2018, 29, 205202.	2.6	6
99	Novel Conductive Metal–Organic Framework for a High-Performance Lithium–Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). ACS Applied Materials & Interfaces, 2018, 10, 15012-15020.	8.0	105
100	Topological states in a two-dimensional metal alloy in Si surface: BiAg/Si(111)- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mn>4</mml:mn> <mml:mo>× surface. Physical Review B, 2018, 97, .</mml:mo></mml:mrow></mml:math 	l:m@2 <mn< td=""><td>nl:mo>4</td></mn<>	nl:mo>4
101	Kane Fermion in a Two-Dimensional π-Conjugated Bis(iminothiolato)nickel Monolayer. Journal of Physical Chemistry Letters, 2018, 9, 614-619.	4.6	25
102	Promising half-metallicity in ductile NbF ₃ : a first-principles prediction. Physical Chemistry Chemical Physics, 2018, 20, 4781-4786.	2.8	10
103	Zr ₂ Si: an antiferromagnetic Dirac MXene. Physical Chemistry Chemical Physics, 2018, 20, 3946-3952.	2.8	19
104	Two-Dimensional Metal–Organic Half-metallic Antiferromagnet: CoFePz. Journal of Physical Chemistry C, 2018, 122, 1846-1851.	3.1	24
105	Negative Poisson's ratio and high-mobility transport anisotropy in SiC ₆ siligraphene. Nanoscale, 2018, 10, 2108-2114.	5.6	51
106	Silicene and germanene on InSe substrates: structures and tunable electronic properties. Physical Chemistry Chemical Physics, 2018, 20, 11369-11377.	2.8	44
107	PNTCDA: a promising versatile organic electrode material for alkali-metal ion batteries. Journal of Materials Chemistry A, 2018, 6, 24869-24876.	10.3	11
108	Theoretical Design of an InSe/GaTe vdW Heterobilayer: A Potential Visible-Light Photocatalyst for Water Splitting. Journal of Physical Chemistry C, 2018, 122, 27803-27810.	3.1	55

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109	Conductive and Polar Titanium Boride as a Sulfur Host for Advanced Lithium–Sulfur Batteries. Chemistry of Materials, 2018, 30, 6969-6977.	6.7	101
110	Electronic properties of a π-conjugated Cairo pentagonal lattice: Direct band gap, ultrahigh carrier mobility, and slanted Dirac cones. Physical Review B, 2018, 98, .	3.2	22
111	Anchoring effects of S-terminated Ti2C MXene for lithium-sulfur batteries: A first-principles study. Applied Surface Science, 2018, 455, 522-526.	6.1	134
112	Irradiation resistance study of binderless nanopore-isotropic graphite for use in molten salt nuclear reactors. Nuclear Engineering and Design, 2018, 335, 231-240.	1.7	7
113	Direct Z-scheme photocatalytic overall water splitting on 2D CdS/InSe heterostructures. Journal Physics D: Applied Physics, 2018, 51, 395501.	2.8	51
114	Valley-selective circular dichroism and high carrier mobility of graphene-like BC ₆ N. Nanoscale, 2018, 10, 13179-13186.	5.6	37
115	Predicting a graphene-like WB4 nanosheet with a double Dirac cone, an ultra-high Fermi velocity and significant gap opening by spin–orbit coupling. Physical Chemistry Chemical Physics, 2017, 19, 5449-5453.	2.8	40
116	Ultrabroadband MoS ₂ Photodetector with Spectral Response from 445 to 2717 nm. Advanced Materials, 2017, 29, 1605972.	21.0	256
117	Strain-Modulated Electronic Structure and Infrared Light Adsorption in Palladium Diselenide Monolayer. Scientific Reports, 2017, 7, 39995.	3.3	39
118	Gallium bismuth halide GaBi-X2 (X = I, Br, Cl) monolayers with distorted hexagonal framework: Novel room-temperature quantum spin Hall insulators. Nano Research, 2017, 10, 2168-2180.	10.4	18
119	Tuning of Interlayer Coupling in Large-Area Graphene/WSe ₂ van der Waals Heterostructure via Ion Irradiation: Optical Evidences and Photonic Applications. ACS Photonics, 2017, 4, 1531-1538.	6.6	75
120	Efficient hydrogen isotopologues separation through a tunable potential barrier: The case of a C2N membrane. Scientific Reports, 2017, 7, 1483.	3.3	21
121	Dirac node lines in two-dimensional Lieb lattices. Nanoscale, 2017, 9, 8740-8746.	5.6	46
122	Cu ₃ N and its analogs: a new class of electrodes for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 8762-8768.	10.3	29
123	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. Nature Communications, 2017, 8, 13990.	12.8	180
124	Low-energy transmission electron diffraction and imaging of large-area graphene. Science Advances, 2017, 3, e1603231.	10.3	35
125	Half-metallic TiF ₃ : a potential anode material for Li-ion spin batteries. Journal of Materials Chemistry A, 2017, 5, 21486-21490.	10.3	16
126	Theoretical Discovery of a Superconducting Two-Dimensional Metal–Organic Framework. Nano Letters, 2017, 17, 6166-6170.	9.1	86

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127	Efficient ³ He/ ⁴ He separation in a nanoporous graphenylene membrane. Physical Chemistry Chemical Physics, 2017, 19, 21522-21526.	2.8	9
128	Theoretical Design of Highly Efficient CO ₂ /N ₂ Separation Membranes Based on Electric Quadrupole Distinction. Journal of Physical Chemistry C, 2017, 121, 17925-17931.	3.1	15
129	Metal-free Ternary BCN Nanosheets with Synergetic Effect of Band Gap Engineering and Magnetic Properties. Scientific Reports, 2017, 7, 6617.	3.3	41
130	Chern Insulator and Chern Half-Metal States in the Two-Dimensional Spin-Gapless Semiconductor Mn ₂ C ₆ S ₁₂ . Journal of Physical Chemistry Letters, 2017, 8, 3770-3775.	4.6	30
131	A promising alkali-metal ion battery anode material: 2D metallic phosphorus carbide (β0-PC). Electrochimica Acta, 2017, 258, 582-590.	5.2	40
132	Tunable Dirac cones in two-dimensional covalent organic materials: C2N6S3 and its analogs. RSC Advances, 2017, 7, 52065-52070.	3.6	9
133	Dirac cones and highly anisotropic electronic structure of super-graphyne. Carbon, 2017, 113, 40-45.	10.3	34
134	Energetics of carbon and nitrogen impurities and their interactions with vacancy in vanadium. Chinese Physics B, 2016, 25, 036104.	1.4	8
135	Tunable C2N Membrane for High Efficient Water Desalination. Scientific Reports, 2016, 6, 29218.	3.3	67
136	Intrinsic current–voltage characteristics of metal-carbon nanotube networks: A first-principles study. Organic Electronics, 2016, 31, 278-286.	2.6	5
137	Prediction of an ultrasoft graphene allotrope with Dirac cones. Carbon, 2016, 105, 323-329.	10.3	62
138	Germanium sulfide nanosheet: a universal anode material for alkali metal ion batteries. Journal of Materials Chemistry A, 2016, 4, 8905-8912.	10.3	188
139	Band inversion and topological aspects in a TiNI monolayer. Physical Chemistry Chemical Physics, 2016, 18, 22154-22159.	2.8	26
140	Tunable topological states in electron-doped HTT-Pt. Physical Review B, 2016, 93, .	3.2	38
141	Electron spin-polarization and spin-gapless states in an oxidized carbon nitride monolayer. RSC Advances, 2016, 6, 108280-108285.	3.6	0
142	Highly Efficient Quantum Sieving in Porous Graphene-like Carbon Nitride for Light Isotopes Separation. Scientific Reports, 2016, 6, 19952.	3.3	45
143	Spin-polarized Dirac cones and topological nontriviality in a metal–organic framework Ni ₂ C ₂₄ S ₆ H ₁₂ . Physical Chemistry Chemical Physics, 2016, 18, 8059-8064.	2.8	48
144	Gas Adsorption Effects on the Electronic Properties of Two-Dimensional Nickel Bis(dithiolene) Complex. Journal of Physical Chemistry C, 2016, 120, 3846-3852.	3.1	31

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145	Unusual electronic and mechanical properties of sodium chlorides at high pressures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1556-1561.	2.1	2
146	Strain-driven band inversion and topological aspects in Antimonene. Scientific Reports, 2015, 5, 16108.	3.3	203
147	Robust half-metallicity and topological aspects in two-dimensional Cu-TPyB. Scientific Reports, 2015, 5, 14098.	3.3	29
148	"Chemical Weathering―Exfoliation of Atomâ€Thick Transition Metal Dichalcogenides and Their Ultrafast Saturable Absorption Properties. Advanced Functional Materials, 2015, 25, 5292-5299.	14.9	69
149	High hydrogen storage capacity in calciumâ€decorated silicene nanostructures. Physica Status Solidi (B): Basic Research, 2015, 252, 2072-2078.	1.5	12
150	Dumbbell stanane: a large-gap quantum spin hall insulator. Physical Chemistry Chemical Physics, 2015, 17, 16624-16629.	2.8	25
151	Intrinsic half-metallicity in fractal carbon nitride honeycomb lattices. Physical Chemistry Chemical Physics, 2015, 17, 21837-21844.	2.8	14
152	Role of edge dehydrogenation in magnetization and spin transport of zigzag graphene nanoribbons with line defects. Organic Electronics, 2015, 27, 212-220.	2.6	5
153	A comparative study of SrCo _{0.8} Nb _{0.2} O _{3â[^]î} and SrCo _{0.8} Ta _{0.2} O _{3â[^]î} as low-temperature solid oxide fuel cell cathodes: effect of non-geometry factors on the oxygen reduction reaction. Journal of Materials Chemistry A. 2015. 3. 24064-24070.	10.3	52
154	Tensile strain induced half-metallicity in graphene-like carbon nitride. Physical Chemistry Chemical Physics, 2015, 17, 6028-6035.	2.8	45
155	Giant Topological Nontrivial Band Gaps in Chloridized Gallium Bismuthide. Nano Letters, 2015, 15, 1296-1301.	9.1	92
156	Kinetics of Nonlinear Optical Response at Insulator–Metal Transition in Vanadium Dioxide. Advanced Optical Materials, 2015, 3, 64-70.	7.3	9
157	High activity and durability of novel perovskite electrocatalysts for water oxidation. Materials Horizons, 2015, 2, 495-501.	12.2	128
158	Stacking dependent electronic properties of the nanofilms composing of super-aligned single-walled carbon nanotubes. Journal Physics D: Applied Physics, 2015, 48, 215307.	2.8	0
159	Sulfur and nitrogen self-doped carbon nanosheets derived from peanut root nodules as high-efficiency non-metal electrocatalyst for hydrogen evolution reaction. Nano Energy, 2015, 16, 357-366.	16.0	162
160	Prediction of quantum anomalous Hall effect on graphene nanomesh. RSC Advances, 2015, 5, 9875-9880.	3.6	26
161	Driving a GaAs film to a large-gap topological insulator by tensile strain. Scientific Reports, 2015, 5, 8441.	3.3	55
162	Electron spin-polarization and band gap engineering in carbon-modified graphitic carbon nitrides. Journal of Materials Chemistry C, 2015, 3, 10886-10891.	5.5	13

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