

Ming Yang

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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.

175 papers	5,641 citations	41 h-index	68 g-index
185 ext. papers	6,687 ext. citations	7.9 avg, IF	5.69 L-index

#	Paper	IF	Citations
175	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenum sulfide. <i>Nature Materials</i> , 2016 , 15, 640-6	27	379
174	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. <i>Energy and Environmental Science</i> , 2012 , 5, 8912	35.4	274
173	Mechanism of ferromagnetism in nitrogen-doped ZnO: First-principle calculations. <i>Physical Review B</i> , 2008 , 78,	3.3	254
172	Synergistic effect of 2D Ti2C and g-C3N4 for efficient photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16748-16756	13	141
171	Facile Synthesis of Vanadium-Doped NiS Nanowire Arrays as Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5959-5967	9.5	138
170	Topological properties determined by atomic buckling in self-assembled ultrathin Bi(110). <i>Nano Letters</i> , 2015 , 15, 80-7	11.5	131
169	Electronic and optical properties of the monolayer group-IV monochalcogenides MX (M=Ge,Sn; X=S,Se,Te). <i>Physical Review B</i> , 2017 , 95,	3.3	129
168	Silicon Carbide Nanotubes As Potential Gas Sensors for CO and HCN Detection. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15985-15988	3.8	121
167	Prospects of spintronics based on 2D materials. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017 , 7, e1313	7.9	105
166	Electronic and transport properties of phosphorene nanoribbons. <i>Physical Review B</i> , 2015 , 92,	3.3	105
165	Effects of edge passivation by hydrogen on electronic structure of armchair graphene nanoribbon and band gap engineering. <i>Applied Physics Letters</i> , 2009 , 94, 122111	3.4	100
164	Epitaxial Y-stabilized ZrO2 films on silicon: Dynamic growth process and interface structure. <i>Applied Physics Letters</i> , 2002 , 80, 2541-2543	3.4	96
163	Co single-atom anchored on Co3O4 and nitrogen-doped active carbon toward bifunctional catalyst for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118188	21.8	94
162	3D heterostructured pure and N-Doped Ni3S2/VS2 nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , 2018 , 269, 55-61	6.7	91
161	Reaction of SiO2 with hafnium oxide in low oxygen pressure. <i>Applied Physics Letters</i> , 2003 , 82, 2047-2049	3.4	82
160	Crystalline zirconia oxide on silicon as alternative gate dielectrics. <i>Applied Physics Letters</i> , 2001 , 78, 1604-1606	3.4	82
159	Gate-Tunable In-Plane Ferroelectricity in Few-Layer SnS. <i>Nano Letters</i> , 2019 , 19, 5109-5117	11.5	80

158	Large valley splitting in monolayer WS ₂ by proximity coupling to an insulating antiferromagnetic substrate. <i>Physical Review B</i> , 2018 , 97,	3.3	76
157	High-throughput screening of transition metal single atom catalysts anchored on molybdenum disulfide for nitrogen fixation. <i>Nano Energy</i> , 2020 , 68, 104304	17.1	75
156	Large-scale two-dimensional MoS ₂ photodetectors by magnetron sputtering. <i>Optics Express</i> , 2015 , 23, 13580-6	3.3	74
155	Tailoring sample-wide pseudo-magnetic fields on a graphene-black phosphorus heterostructure. <i>Nature Nanotechnology</i> , 2018 , 13, 828-834	28.7	74
154	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS ₂ . <i>Nature Physics</i> , 2019 , 15, 347-351	16.2	68
153	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801160	4.6	63
152	Modification of Vapor Phase Concentrations in MoS Growth Using a NiO Foam Barrier. <i>ACS Nano</i> , 2018 , 12, 1339-1349	16.7	62
151	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. <i>Nature Communications</i> , 2014 , 5, 5461	17.4	61
150	Efficient coupling of a hierarchical V ₂ O ₅ @Ni ₃ S ₂ hybrid nanoarray for pseudocapacitors and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17954-17962	13	61
149	Impact of oxide defects on band offset at GeO ₂ /Ge interface. <i>Applied Physics Letters</i> , 2009 , 94, 142903	3.4	61
148	Charge and spin transport in graphene-based heterostructure. <i>Applied Physics Letters</i> , 2011 , 98, 053101	3.4	59
147	High oscillator strength interlayer excitons in two-dimensional heterostructures for mid-infrared photodetection. <i>Nature Nanotechnology</i> , 2020 , 15, 675-682	28.7	56
146	Effect of nitrogen incorporation on the electronic structure and thermal stability of HfO ₂ gate dielectric. <i>Applied Physics Letters</i> , 2006 , 88, 192103	3.4	56
145	Energy-band alignments at ZrO ₂ /Bi, SiGe, and Ge interfaces. <i>Applied Physics Letters</i> , 2004 , 85, 4418	3.4	56
144	Thermal stability and band alignments for Ge ₃ N ₄ dielectrics on Ge. <i>Applied Physics Letters</i> , 2006 , 89, 022105	3.4	53
143	First-principles study of ZrO ₂ /Bi interfaces: Energetics and band offsets. <i>Physical Review B</i> , 2005 , 72,	3.3	53
142	The energy-band alignment at molybdenum disulphide and high-k dielectrics interfaces. <i>Applied Physics Letters</i> , 2014 , 104, 232110	3.4	46
141	Magnetic and transport properties of Mn ₃ SiGa/MgO/Mn ₃ SiGa magnetic tunnel junctions: A first-principles study. <i>Applied Physics Letters</i> , 2012 , 100, 022408	3.4	45

140	Graphene Oxide: An Ideal Support for Gold Nanocatalysts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22336-22340	3.8	44
139	Two-dimensional graphene superlattice made with partial hydrogenation. <i>Applied Physics Letters</i> , 2010 , 96, 193115	3.4	44
138	Impact of interface structure on Schottky-barrier height for Ni/ZrO ₂ (001) interfaces. <i>Applied Physics Letters</i> , 2005 , 86, 132103	3.4	43
137	Immobilization of dye pollutants on iron hydroxide coated substrates: kinetics, efficiency and the adsorption mechanism. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13280-13288	13	42
136	Oxygen-deficiency-activated charge ordering in La _{2/3} Sr _{1/3} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2000 , 76, 1051-1053	3.4	42
135	Au/Ni ₁₂ P ₅ core/shell single-crystal nanoparticles as oxygen evolution reaction catalyst. <i>Nano Research</i> , 2017 , 10, 3103-3112	10	41
134	High-Throughput Computational Screening of Vertical 2D van der Waals Heterostructures for High-efficiency Excitonic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32142-32150	9.5	41
133	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS Layer. <i>Advanced Materials</i> , 2019 , 31, e1900776	24	40
132	The stability of aluminium oxide monolayer and its interface with two-dimensional materials. <i>Scientific Reports</i> , 2016 , 6, 29221	4.9	39
131	Glass forming abilities of binary Cu _{100-x} Zr _x (34, 35.5, and 38.2 at. %) metallic glasses: A LAMMPS study. <i>Journal of Applied Physics</i> , 2009 , 105, 043521	2.5	39
130	Detrimental Effects of Oxygen Vacancies in Electrochromic Molybdenum Oxide. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10592-10601	3.8	38
129	Giant gate-tunable bandgap renormalization and excitonic effects in a 2D semiconductor. <i>Science Advances</i> , 2019 , 5, eaaw2347	14.3	37
128	Black-Phosphorus-Incorporated Hydrogel as a Conductive and Biodegradable Platform for Enhancement of the Neural Differentiation of Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2000177	15.6	37
127	Effect of doping SiO ₂ on high-frequency magnetic properties for W-type barium ferrite. <i>Journal of Applied Physics</i> , 2004 , 95, 4235-4239	2.5	36
126	Band alignment and interfacial structure of ZnO/Si heterojunction with Al ₂ O ₃ and HfO ₂ as interlayers. <i>Applied Physics Letters</i> , 2014 , 104, 161602	3.4	35
125	Band alignment of yttrium oxide on various relaxed and strained semiconductor substrates. <i>Journal of Applied Physics</i> , 2008 , 103, 083702	2.5	35
124	Photoemission study of energy-band alignment for RuO _x /HfO ₂ /Si system. <i>Applied Physics Letters</i> , 2004 , 85, 6155-6157	3.4	34
123	Performance Improvement by Ozone Treatment of 2D PdSe. <i>ACS Nano</i> , 2020 , 14, 5668-5677	16.7	33

122	Efficient Spin Injection into Graphene through a Tunnel Barrier: Overcoming the Spin-Conductance Mismatch. <i>Physical Review Applied</i> , 2014 , 2,	4.3	33
121	Biaxial strain-induced transport property changes in atomically tailored SrTiO ₃ -based systems. <i>Physical Review B</i> , 2014 , 90,	3.3	32
120	Electronic structure of germanium nitride considered for gate dielectrics. <i>Journal of Applied Physics</i> , 2007 , 102, 013507	2.5	32
119	Revealing the Role of Potassium Treatment in CZTS _{Se} Thin Film Solar Cells. <i>Chemistry of Materials</i> , 2017 , 29, 4273-4281	9.6	31
118	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. <i>Nature Communications</i> , 2017 , 8, 15271	17.4	30
117	Interplay of electronic reconstructions, surface oxygen vacancies, and lattice distortions in insulator-metal transition of LaAlO ₃ /SrTiO ₃ . <i>Physical Review B</i> , 2015 , 92,	3.3	30
116	X-ray photoelectron spectroscopy studies of nitridation on 4H-SiC (0001) surface by direct nitrogen atomic source. <i>Applied Physics Letters</i> , 2008 , 92, 092119	3.4	30
115	Band Bending Inversion in Bi ₂ Se ₃ Nanostructures. <i>Nano Letters</i> , 2015 , 15, 7503-7	11.5	29
114	High-Throughput Identification of Exfoliable Two-Dimensional Materials with Active Basal Planes for Hydrogen Evolution. <i>ACS Energy Letters</i> , 2020 , 5, 2313-2321	20.1	28
113	Minimizing Isolate Catalyst Motion in Metal-Assisted Chemical Etching for Deep Trenching of Silicon Nanohole Array. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20981-20990	9.5	27
112	Atomic N Modified Rutile TiO ₂ (110) Surface Layer with Significant Visible Light Photoactivity. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 994-1000	3.8	26
111	Damage-Free Smooth-Sidewall InGaAs Nanopillar Array by Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2017 , 11, 10193-10205	16.7	26
110	Band offsets of HfO ₂ /ZnO interface: In situ x-ray photoelectron spectroscopy measurement and ab initio calculation. <i>Applied Physics Letters</i> , 2009 , 95, 162104	3.4	26
109	Evidences for redox reaction driven charge transfer and mass transport in metal-assisted chemical etching of silicon. <i>Scientific Reports</i> , 2016 , 6, 36582	4.9	26
108	Reversible room-temperature ferromagnetism in Nb-doped SrTiO ₃ single crystals. <i>Physical Review B</i> , 2013 , 87,	3.3	25
107	Manipulating absorption and diffusion of H atom on graphene by mechanical strain. <i>AIP Advances</i> , 2011 , 1, 032109	1.5	24
106	Improving the interfacial properties of CZTS photocathodes by Ag substitution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8862-8867	13	23
105	First-Principles Study of Hydrogenation of Ethylene on a HxMoO ₃ (010) Surface. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24630-24638	3.8	23

104	Electronic structures of Bi ₃ N ₄ (0001)/Si(111) interfaces: Perfect bonding and dangling bond effects. <i>Journal of Applied Physics</i> , 2009 , 105, 024108	2.5	23
103	Enhancing hole concentration in AlN by Mg:O codoping: Ab initio study. <i>Physical Review B</i> , 2008 , 77,	3.3	23
102	Interfacial Interaction between HfO ₂ and MoS ₂ : From Thin Films to Monolayer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9804-9810	3.8	23
101	First principles study of the ternary complex model of EL2 defect in GaAs saturable absorber. <i>Optics Express</i> , 2012 , 20, 6258-66	3.3	22
100	Microstructure and growth mode at early growth stage of laser-ablated epitaxial Pb(Zr _{0.52} Ti _{0.48})O ₃ films on a SrTiO ₃ substrate. <i>Journal of Applied Physics</i> , 2001 , 89, 4497-4502	2.5	22
99	Substoichiometric Molybdenum Sulfide Phases with Catalytically Active Basal Planes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14121-14128	16.4	22
98	Phonon-Mediated Colossal Magnetoresistance in Graphene/Black Phosphorus Heterostructures. <i>Nano Letters</i> , 2018 , 18, 3377-3383	11.5	21
97	Understanding the Roles of NiO in Enhancing the Photoelectrochemical Performance of BiVO Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 2022-2028	8.3	21
96	Band alignment and thermal stability of HfO ₂ gate dielectric on SiC. <i>Applied Physics Letters</i> , 2008 , 93, 052104	3.4	20
95	Optical conductivity renormalization of graphene on SrTiO ₃ due to resonant excitonic effects mediated by Ti 3d orbitals. <i>Physical Review B</i> , 2015 , 91,	3.3	19
94	Graphene on Bi ₃ N ₄ : An ideal system for graphene-based electronics. <i>AIP Advances</i> , 2011 , 1, 032111	1.5	19
93	First principles study of bismuth alloying effects in GaAs saturable absorber. <i>Optics Express</i> , 2012 , 20, 11574-80	3.3	18
92	Self-Anchored Catalyst Interface Enables Ordered Via Array Formation from Submicrometer to Millimeter Scale for Polycrystalline and Single-Crystalline Silicon. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9116-9122	9.5	17
91	Selective self-assembly of 2,3-diaminophenazine molecules on MoSe mirror twin boundaries. <i>Nature Communications</i> , 2019 , 10, 2847	17.4	17
90	Revealing the Grain Boundary Formation Mechanism and Kinetics during Polycrystalline MoS Growth. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46090-46100	9.5	17
89	Tailoring the electronic properties of SrRuO ₃ films in SrRuO ₃ /LaAlO ₃ superlattices. <i>Applied Physics Letters</i> , 2012 , 101, 223105	3.4	17
88	Room Temperature Ferromagnetism of Monolayer Chromium Telluride with Perpendicular Magnetic Anisotropy. <i>Advanced Materials</i> , 2021 , 33, e2103360	24	17
87	Discovery of Hidden Classes of Layered Electrides by Extensive High-Throughput Material Screening. <i>Chemistry of Materials</i> , 2019 , 31, 1860-1868	9.6	16

86	Possible efficient p-type doping of AlN using Be: An ab initio study. <i>Applied Physics Letters</i> , 2007 , 91, 152110	3.4	16
85	Electronic properties of atomically thin MoS layers grown by physical vapour deposition: band structure and energy level alignment at layer/substrate interfaces.. <i>RSC Advances</i> , 2018 , 8, 7744-7752	3.7	15
84	Defect Evolution Enhanced Visible-Light Photocatalytic Activity in Nitrogen-Doped Anatase TiO ₂ Thin Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16600-16606	3.8	15
83	Hydrogen Evolution Catalyzed by a Molybdenum Sulfide Two-Dimensional Structure with Active Basal Planes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22042-22049	9.5	15
82	Hexagonal TiO ₂ for Photoelectrochemical Applications. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18042-18045	3.8	15
81	Interface properties of Ge ₃ N ₄ /Ge(111): Ab initio and x-ray photoemission spectroscopy study. <i>Applied Physics Letters</i> , 2008 , 93, 222907	3.4	15
80	Band alignment at interfaces of synthetic few-monolayer MoS ₂ with SiO ₂ from internal photoemission. <i>APL Materials</i> , 2018 , 6, 026801	5.7	15
79	Tuning Contact Barrier Height between Metals and MoS ₂ Monolayer through Interface Engineering. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700035	4.6	14
78	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. <i>Advanced Science</i> , 2019 , 6, 1802093	13.6	14
77	Graphene stabilized high- ϵ dielectric Y ₂ O ₃ (111) monolayers and their interfacial properties. <i>RSC Advances</i> , 2015 , 5, 83588-83593	3.7	14
76	Giant crystalline anisotropic magnetoresistance in nonmagnetic perovskite oxide heterostructures. <i>Physical Review B</i> , 2017 , 95,	3.3	14
75	Modulating Charge Density Wave Order in a 1T-TaS/Black Phosphorus Heterostructure. <i>Nano Letters</i> , 2019 , 19, 2840-2849	11.5	13
74	Design of novel pentagonal 2D transitional-metal sulphide monolayers for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16201-16209	6.7	13
73	Si ₂₄ : An Efficient Solar Cell Material. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15574-15579	3.8	13
72	A synchrotron-based photoemission study of the MoO ₃ /TiO ₂ interface. <i>Journal of Chemical Physics</i> , 2011 , 134, 034706	3.9	13
71	Atomic and electronic structures at ZnO and ZrO ₂ interface for transparent thin-film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1731-1734	1.6	13
70	Pressure induced topological phase transition in layered BiS. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29372-29380	3.6	12
69	Band alignment of 2D WS ₂ /HfO ₂ interfaces from x-ray photoelectron spectroscopy and first-principles calculations. <i>Applied Physics Letters</i> , 2018 , 112, 171604	3.4	12

68	Robust two-dimensional bipolar magnetic semiconductors by defect engineering. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8435-8443	7.1	12
67	Simultaneous magnetic and charge doping of topological insulators with carbon. <i>Physical Review Letters</i> , 2013 , 111, 236803	7.4	12
66	In situ photoemission spectroscopy study on formation of HfO ₂ dielectrics on epitaxial graphene on SiC substrate. <i>Applied Physics Letters</i> , 2010 , 96, 072111	3.4	12
65	Room-Temperature Colossal Magnetoresistance in Terraced Single-Layer Graphene. <i>Advanced Materials</i> , 2020 , 32, e2002201	24	12
64	Design of pentagonal NbX monolayers for electronics and electrocatalysis. <i>Applied Surface Science</i> , 2019 , 479, 595-600	6.7	11
63	Giant tunneling electroresistance induced by ferroelectrically switchable two-dimensional electron gas at nonpolar BaTiO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2016 , 94,	3.3	11
62	First-principles study of the effect of BiGa heteroantisites in GaAs:Bi alloy. <i>Computational Materials Science</i> , 2012 , 63, 178-181	3.2	11
61	MoS ₂ /Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness. <i>Advanced Materials</i> , 2020 , 32, e2002704	24	11
60	Large Enhancement of 2D Electron Gases Mobility Induced by Interfacial Localized Electron Screening Effect. <i>Advanced Materials</i> , 2018 , 30, e1707428	24	10
59	Diindenoperylene thin-film structure on MoS ₂ monolayer. <i>Applied Physics Letters</i> , 2019 , 114, 251906	3.4	10
58	Interfacial Properties of Silicon Nitride Grown on Epitaxial Graphene on 6H-SiC Substrate. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22315-22318	3.8	10
57	Effects of nitrogen incorporation on the electronic structure of rutile-TiO ₂ . <i>Journal of Applied Physics</i> , 2011 , 109, 023707	2.5	10
56	Effect of interfacial strain on spin injection and spin polarization of Co ₂ CrAl/NaNbO ₃ /Co ₂ CrAl magnetic tunneling junction. <i>Europhysics Letters</i> , 2012 , 99, 37001	1.6	10
55	Energy Band Alignment of a Monolayer MoS ₂ with SiO ₂ and Al ₂ O ₃ Insulators from Internal Photoemission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800616	1.6	9
54	Ab initio study on intrinsic defect properties of germanium nitride considered for gate dielectric. <i>Applied Physics Letters</i> , 2007 , 91, 132906	3.4	9
53	Direct Observation of Room-Temperature Stable Magnetism in LaAlO ₃ /SrTiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9774-9781	9.5	9
52	Surface Modification of Hematite Photoanodes with CeO ₂ Cocatalyst for Improved Photoelectrochemical Water Oxidation Kinetics. <i>ChemSusChem</i> , 2020 , 13, 5489-5496	8.3	8
51	The supramolecular structure and van der Waals interactions affect the electronic structure of ferrocenyl-alkanethiolate SAMs on gold and silver electrodes. <i>Nanoscale Advances</i> , 2019 , 1, 1991-2002	5.1	7

50	Orbital dependent ultrafast charge transfer dynamics of ferrocenyl-functionalized SAMs on gold studied by core-hole clock spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 094006	1.8	7
49	Tunable Fluorescence Properties Due to Carbon Incorporation in Zinc Oxide Nanowires. <i>Advanced Optical Materials</i> , 2017 , 5, 1700381	8.1	7
48	The effect of oxygen vacancies on the electronic structures, magnetic properties and the stability of SrTiO ₃ (001) surface. <i>Surface Science</i> , 2015 , 641, 37-50	1.8	7
47	Band alignments at SrZrO ₃ /Ge(001) interface: Thermal annealing effects. <i>Applied Surface Science</i> , 2010 , 256, 4850-4853	6.7	7
46	An energy efficient bi-functional electrode for continuous cation-selective capacitive deionization. <i>Nanoscale</i> , 2020 , 12, 22917-22927	7.7	7
45	La interstitial defect-induced insulator-metal transition in the oxide heterostructures LaAlO ₃ /SrTiO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	6
44	A novel layered birnessite-type sodium molybdate as dual-ion electrodes for high capacity battery. <i>Electrochimica Acta</i> , 2020 , 363, 137229	6.7	6
43	Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. <i>Advanced Materials</i> , 2020 , 32, e2000153	24	6
42	Tuning polarization states and interface properties of BaTiO ₃ /SrTiO ₃ heterostructure by metal capping layers. <i>Physical Review B</i> , 2016 , 93,	3.3	5
41	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. <i>ACS Nano</i> , 2019 , 13, 14529-14539	16.7	5
40	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 7964-7972	11.5	5
39	Employing a Bifunctional Molybdate Precursor To Grow the Highly Crystalline MoS ₂ for High-Performance Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14239-14248	8.5	4
38	Correlated plasmons in the topological insulator Bi ₂ Se ₃ induced by long-range electron correlations. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	4
37	Surface magnetism of Mg doped AlN: a first principle study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 435801	1.8	4
36	Temperature dependence of photoluminescence spectra of bilayer two-dimensional electron gases in LaAlO ₃ /SrTiO ₃ superlattices: coexistence of Auger recombination and single-carrier trapping. <i>AIP Advances</i> , 2015 , 5, 067163	1.5	4
35	Substrate mediated electronic and excitonic reconstruction in a MoS ₂ monolayer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11778-11785	7.1	4
34	Electronic correlation determining correlated plasmons in Sb-doped Bi ₂ Se ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	3
33	Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System. <i>Advanced Science</i> , 2019 , 6, 1900446	13.6	3

32	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides. <i>Advanced Science</i> , 2020 , 7, 1902726	13.6	3
31	Formation of two-dimensional small polarons at the conducting LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2019 , 100,	3.3	3
30	Tunable spin and orbital polarization in SrTiO ₃ -based heterostructures. <i>New Journal of Physics</i> , 2019 , 21, 103016	2.9	3
29	Achieving giant tunneling electroresistance and magnetoresistance by BaTiO ₃ /SrTiO ₃ barrier and Heusler alloy electrode. <i>Physical Review Materials</i> , 2017 , 1,	3.2	3
28	Large-scale monolayer molybdenum disulfide (MoS ₂) for mid-infrared photonics. <i>Nanophotonics</i> , 2020 , 9, 4703-4710	6.3	3
27	Direct observation of anisotropic small-hole polarons in an orthorhombic structure of BiVO ₄ films. <i>Physical Review B</i> , 2018 , 97,	3.3	3
26	A confinement approach to fabricate hybrid PBAs-derived FeCo@NC yolk-shell nanoreactors for bisphenol A degradation. <i>Chemical Engineering Journal</i> , 2022 , 428, 131080	14.7	3
25	Direct control of defects in molybdenum oxide and understanding their high CO ₂ sorption performance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12576-12585	13	2
24	Thermally Induced Chiral Aggregation of Dihydrobenzopyrenone on Au(111). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35547-35554	9.5	2
23	Excitons: Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System (Adv. Sci. 12/2019). <i>Advanced Science</i> , 2019 , 6, 1970073	13.6	2
22	Ferromagnetism of wide-bandgap semiconductor surfaces: Mg-doped AlN. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 110302	1.4	2
21	Layer-dependent semiconductor-metal transition of SnO/Si(001) heterostructure and device application. <i>Scientific Reports</i> , 2017 , 7, 2570	4.9	2
20	Structure dependent and strain tunable magnetic ordering in ultrathin chromium telluride. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162223	5.7	2
19	Emergent Midgap Excitons in Large-Size Freestanding 2D Strongly Correlated Perovskite Oxide Films. <i>Advanced Optical Materials</i> , 2021 , 9, 2100025	8.1	2
18	Measurement of direct and indirect bandgaps in synthetic ultrathin MoS ₂ and WS ₂ films from photoconductivity spectra. <i>Journal of Applied Physics</i> , 2021 , 129, 155302	2.5	2
17	On-Surface Synthesis of Variable Bandgap Nanoporous Graphene. <i>Small</i> , 2021 , 17, e2102246	11	2
16	Reply to: Detectivities of WS/HfS heterojunctions.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	2
15	Orientation control of epitaxial Ge thin films growth on SrTiO ₃ (100) by ultrahigh vacuum sputtering. <i>Thin Solid Films</i> , 2012 , 520, 4880-4883	2.2	1

14	Fabrication of a $\text{TiN}/\text{Ni}/\text{Au}$ Contact on ZnO Films With High Thermal Stability and Low Resistance. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 4297-4300	2.9	1
13	Effect of atomic hydrogen on boron-doped germanium: An ab initio study. <i>Applied Physics Letters</i> , 2008 , 93, 082107	3.4	1
12	Selective hydrogenation improves interface properties of high-k dielectrics on 2D semiconductors. <i>Nano Research</i> , 1	10	1
11	A first principles study of uniaxial strain-stabilized long-range ferromagnetic ordering in electrenes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 16576-16580	7.1	1
10	Transition-Metal Dichalcogenides: Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides (Adv. Sci. 10/2020). <i>Advanced Science</i> , 2020 , 7, 2070055	13.6	1
9	Memory Devices: MoS ₂ /Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness (Adv. Mater. 42/2020). <i>Advanced Materials</i> , 2020 , 32, 2070317	24	1
8	Tuning photoresponse of graphene-black phosphorus heterostructure by electrostatic gating and photo-induced doping. <i>Chinese Chemical Letters</i> , 2021 , 33, 368-368	8.1	1
7	AgS monolayer: an ultrasoft inorganic Lieb lattice. <i>Nanoscale</i> , 2021 , 13, 14008-14015	7.7	1
6	Flexible Sb _{0.405} Te _{0.595} photodetectors with broadband spectral response up to 4.5 μm . <i>Acta Materialia</i> , 2022 , 226, 117631	8.4	0
5	Internal photoemission of electrons from 2D semiconductor/3D metal barrier structures. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 295101	3	0
4	Emergent Midgap Excitons in Large-Size Freestanding 2D Strongly Correlated Perovskite Oxide Films (Advanced Optical Materials 10/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170038	8.1	0
3	Wafer-Scale 2H-MoS ₂ Monolayer for High Surface-enhanced Raman Scattering Performance: Charge-Transfer Coupled with Molecule Resonance. <i>Advanced Materials Technologies</i> , 2200217	6.8	0
2	Abnormal behavior of potassium adsorbed phosphorene. <i>International Journal of Computational Materials Science and Engineering</i> , 2017 , 06, 1850002	0.3	
1	First-principles study of NiSi ₂ /HfO ₂ interfaces: energetics and Schottky-barrier heights. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 405302	3	