Ming Yang

List of Publications by Year
in descending order

184 papers	7,769 citations	50273 46 h-index	62593 80 g-index
185 all docs	185 docs citations	185 times ranked	11479 citing authors

#	Article	IF	Citations
1	Coordination polymer structure and revisited hydrogen evolution catalytic mechanism for amorphous molybdenumÂsulfide. Nature Materials, 2016, 15, 640-646.	27.5	490
2	Copper molybdenum sulfide: a new efficient electrocatalyst for hydrogen production from water. Energy and Environmental Science, 2012, 5, 8912.	30.8	314
3	Mechanism of ferromagnetism in nitrogen-doped ZnO: First-principle calculations. Physical Review B, 2008, 78, .	3.2	269
4	Facile Synthesis of Vanadium-Doped Ni₃S₂ Nanowire Arrays as Active Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 5959-5967.	8.0	196
5	Synergistic effect of 2D Ti₂C and g-C₃N₄ for efficient photocatalytic hydrogen production. Journal of Materials Chemistry A, 2017, 5, 16748-16756.	10.3	192
6	Topological Properties Determined by Atomic Buckling in Self-Assembled Ultrathin Bi(110). Nano Letters, 2015, 15, 80-87.	9.1	191
7	Electronic and optical properties of the monolayer group-IV monochalcogenides <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml		

#	Article	IF	Citations
19	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS2. Nature Physics, 2019, 15, 347-351.	16.7	105
20	Epitaxial Y-stabilized ZrO2 films on silicon: Dynamic growth process and interface structure. Applied Physics Letters, 2002, 80, 2541-2543.	3.3	103
21	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. Advanced Materials Interfaces, 2019, 6, 1801160.	3.7	100
22	Blackâ€Phosphorusâ€Incorporated Hydrogel as a Conductive and Biodegradable Platform for Enhancement of the Neural Differentiation of Mesenchymal Stem Cells. Advanced Functional Materials, 2020, 30, 2000177.	14.9	100
23	Large-scale two-dimensional MoS_2 photodetectors by magnetron sputtering. Optics Express, 2015, 23, 13580.	3.4	93
24	Reaction of SiO2 with hafnium oxide in low oxygen pressure. Applied Physics Letters, 2003, 82, 2047-2049.	3.3	89
25	Efficient coupling of a hierarchical V₂O₅@Ni₃S₂hybrid nanoarray for pseudocapacitors and hydrogen production. Journal of Materials Chemistry A, 2017, 5, 17954-17962.	10.3	88
26	Crystalline zirconia oxide on silicon as alternative gate dielectrics. Applied Physics Letters, 2001, 78, 1604-1606.	3.3	86
27	Room Temperature Ferromagnetism of Monolayer Chromium Telluride with Perpendicular Magnetic Anisotropy. Advanced Materials, 2021, 33, e2103360.	21.0	84
28	Giant enhancement in vertical conductivity of stacked CVD graphene sheets by self-assembled molecular layers. Nature Communications, 2014, 5, 5461.	12.8	83
29	Giant gate-tunable bandgap renormalization and excitonic effects in a 2D semiconductor. Science Advances, 2019, 5, eaaw2347.	10.3	80
30	High-Throughput Computational Screening of Vertical 2D van der Waals Heterostructures for High-efficiency Excitonic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 32142-32150.	8.0	75
31	Modification of Vapor Phase Concentrations in MoS₂ Growth Using a NiO Foam Barrier. ACS Nano, 2018, 12, 1339-1349.	14.6	70
32	Impact of oxide defects on band offset at GeO2/Ge interface. Applied Physics Letters, 2009, 94, 142903.	3.3	66
33	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spinâ€Orbit Torque by a MoS₂ Layer. Advanced Materials, 2019, 31, e1900776.	21.0	65
34	Charge and spin transport in graphene-based heterostructure. Applied Physics Letters, 2011, 98, 053101.	3.3	62
35	Energy-band alignments at ZrO[sub 2]âˆ•Si, SiGe, and Ge interfaces. Applied Physics Letters, 2004, 85, 4418.	3.3	61
36	Effect of nitrogen incorporation on the electronic structure and thermal stability of HfO2 gate dielectric. Applied Physics Letters, 2006, 88, 192103.	3.3	59

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37	The stability of aluminium oxide monolayer and its interface with two-dimensional materials. Scientific Reports, 2016, 6, 29221.	3.3	59
38	First-principles study ofZrO2âˆ•Siinterfaces: Energetics and band offsets. Physical Review B, 2005, 72, .	3.2	58
39	Thermal stability and band alignments for Ge3N4 dielectrics on Ge. Applied Physics Letters, 2006, 89, 022105.	3.3	55
40	Graphene Oxide: An Ideal Support for Gold Nanocatalysts. Journal of Physical Chemistry C, 2012, 116, 22336-22340.	3.1	54
41	High-Throughput Identification of Exfoliable Two-Dimensional Materials with Active Basal Planes for Hydrogen Evolution. ACS Energy Letters, 2020, 5, 2313-2321.	17.4	54
42	Performance Improvement by Ozone Treatment of 2D PdSe₂. ACS Nano, 2020, 14, 5668-5677.	14.6	54
43	The energy-band alignment at molybdenum disulphide and high-k dielectrics interfaces. Applied Physics Letters, 2014, 104, .	3.3	53
44	Improving carrier mobility in two-dimensional semiconductors with rippled materials. Nature Electronics, 2022, 5, 489-496.	26.0	52
45	Immobilization of dye pollutants on iron hydroxide coated substrates: kinetics, efficiency and the adsorption mechanism. Journal of Materials Chemistry A, 2016, 4, 13280-13288.	10.3	51
46	Magnetic and transport properties of Mn3âˆ’xGa/MgO/Mn3âˆ’xGa magnetic tunnel junctions: A first-principles study. Applied Physics Letters, 2012, 100, .	3.3	49
47	Two-dimensional graphene superlattice made with partial hydrogenation. Applied Physics Letters, 2010, 96, 193115.	3.3	48
48	Au/Ni12P5 core/shell single-crystal nanoparticles as oxygen evolution reaction catalyst. Nano Research, 2017, 10, 3103-3112.	10.4	48
49	Band alignment of yttrium oxide on various relaxed and strained semiconductor substrates. Journal of Applied Physics, 2008, 103, .	2.5	45
50	Oxygen-deficiency-activated charge ordering in La2/3Sr1/3MnO3âˆ’Î´ thin films. Applied Physics Letters, 2000, 76, 1051-1053.	3.3	43
51	Impact of interface structure on Schottky-barrier height for Niâˆ•ZrO2(001) interfaces. Applied Physics Letters, 2005, 86, 132103.	3.3	43
52	Revealing the Role of Potassium Treatment in CZTSSe Thin Film Solar Cells. Chemistry of Materials, 2017, 29, 4273-4281.	6.7	43
53	Glass forming abilities of binary Cu100âˆ’xZrx (34, 35.5, and 38.2â€‚at.â€‰%) metallic glasses: A LAMMPS study. Journal of Applied Physics, 2009, 105, .	2.5	42
54	Detrimental Effects of Oxygen Vacancies in Electrochromic Molybdenum Oxide. Journal of Physical Chemistry C, 2015, 119, 10592-10601.	3.1	42

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55	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. Nature Communications, 2017, 8, 15271.	12.8	42
56	Improving the interfacial properties of CZTS photocathodes by Ag substitution. Journal of Materials Chemistry A, 2020, 8, 8862-8867.	10.3	40
57	Band alignment and interfacial structure of ZnO/Si heterojunction with Al2O3 and HfO2 as interlayers. Applied Physics Letters, 2014, 104, .	3.3	39
58	Efficient Spin Injection into Graphene through a Tunnel Barrier: Overcoming the Spin-Conductance Mismatch. Physical Review Applied, 2014, 2, .	3.8	39
59	Discovery of Hidden Classes of Layered Electrides by Extensive High-Throughput Material Screening. Chemistry of Materials, 2019, 31, 1860-1868.	6.7	39
60	Biaxial strain-induced transport property changes in atomically tailored<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m systems. Physical Review B, 2014, 90, .	3.2	38
61	Interplay of electronic reconstructions, surface oxygen vacancies, and lattice distortions in insulator-metal transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Physical Review B, 2015, 92, .	3.2	38
62	Effect of doping SiO2 on high-frequency magnetic properties for W-type barium ferrite. Journal of Applied Physics, 2004, 95, 4235-4239.	2.5	37
63	Revealing the Grain Boundary Formation Mechanism and Kinetics during Polycrystalline MoS₂ Growth. ACS Applied Materials & Interfaces, 2019, 11, 46090-46100.	8.0	37
64	Photoemission study of energy-band alignment for RuOxâˆ•HfO2âˆ•Si system. Applied Physics Letters, 2004, 85, 6155-6157.	3.3	36
65	Damage-Free Smooth-Sidewall InGaAs Nanopillar Array by Metal-Assisted Chemical Etching. ACS Nano, 2017, 11, 10193-10205.	14.6	36
66	Evidences for redox reaction driven charge transfer and mass transport in metal-assisted chemical etching of silicon. Scientific Reports, 2016, 6, 36582.	3.3	34
67	Electronic structure of germanium nitride considered for gate dielectrics. Journal of Applied Physics, 2007, 102, 013507.	2.5	33
68	Band Bending Inversion in Bi₂Se₃ Nanostructures. Nano Letters, 2015, 15, 7503-7507.	9.1	33
69	Minimizing Isolate Catalyst Motion in Metal-Assisted Chemical Etching for Deep Trenching of Silicon Nanohole Array. ACS Applied Materials & Interfaces, 2017, 9, 20981-20990.	8.0	33
70	X-ray photoelectron spectroscopy studies of nitridation on 4H-SiC (0001) surface by direct nitrogen atomic source. Applied Physics Letters, 2008, 92, 092119.	3.3	32
71	Design of novel pentagonal 2D transitional-metal sulphide monolayers for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 16201-16209.	7.1	32
72	Atomic N Modified Rutile TiO₂(110) Surface Layer with Significant Visible Light Photoactivity. Journal of Physical Chemistry C, 2014, 118, 994-1000.	3.1	31

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73	Understanding the Roles of NiO_x in Enhancing the Photoelectrochemical Performance of BiVO₄ Photoanodes for Solar Water Splitting. ChemSusChem, 2019, 12, 2022-2028.	6.8	31
74	Phonon-Mediated Colossal Magnetoresistance in Graphene/Black Phosphorus Heterostructures. Nano Letters, 2018, 18, 3377-3383.	9.1	30
75	Band offsets of HfO2/ZnO interface: In situ x-ray photoelectron spectroscopy measurement and ab initio calculation. Applied Physics Letters, 2009, 95, .	3.3	29
76	Reversible room-temperature ferromagnetism in Nb-doped SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>single crystals. Physical Review B, 2013, 87, .	3.2	29
77	Substoichiometric Molybdenum Sulfide Phases with Catalytically Active Basal Planes. Journal of the American Chemical Society, 2016, 138, 14121-14128.	13.7	28
78	Interfacial Interaction between HfO2 and MoS2: From Thin Films to Monolayer. Journal of Physical Chemistry C, 2016, 120, 9804-9810.	3.1	27
79	Manipulating absorption and diffusion of H atom on graphene by mechanical strain. AIP Advances, 2011, 1, 032109.	1.3	26
80	Self-Anchored Catalyst Interface Enables Ordered Via Array Formation from Submicrometer to Millimeter Scale for Polycrystalline and Single-Crystalline Silicon. ACS Applied Materials & Interfaces, 2018, 10, 9116-9122.	8.0	26
81	Robust two-dimensional bipolar magnetic semiconductors by defect engineering. Journal of Materials Chemistry C, 2018, 6, 8435-8443.	5.5	26
82	Selective self-assembly of 2,3-diaminophenazine molecules on MoSe2 mirror twin boundaries. Nature Communications, 2019, 10, 2847.	12.8	26
83	Enhancing hole concentration in AlN by Mg:O codoping:Ab initiostudy. Physical Review B, 2008, 77, .	3.2	25
84	First principles study of the ternary complex model of EL2 defect in GaAs saturable absorber. Optics Express, 2012, 20, 6258.	3.4	25
85	First-Principles Study of Hydrogenation of Ethylene on a H_xMoO₃(010) Surface. Journal of Physical Chemistry C, 2012, 116, 24630-24638.	3.1	25
86	Roomâ€Temperature Colossal Magnetoresistance in Terraced Singleâ€Layer Graphene. Advanced Materials, 2020, 32, e2002201.	21.0	25
87	Band alignment and thermal stability of HfO2 gate dielectric on SiC. Applied Physics Letters, 2008, 93, 052104.	3.3	23
88	Electronic structures of Î²-Si3N4(0001)/Si(111) interfaces: Perfect bonding and dangling bond effects. Journal of Applied Physics, 2009, 105, .	2.5	23
89	Graphene on Î²-Si3N4: An ideal system for graphene-based electronics. AIP Advances, 2011, 1, .	1.3	23
90	Unraveling Highâ€Yield Phaseâ€Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. Advanced Science, 2019, 6, 1802093.	11.2	23

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91	MoS₂/Polymer Heterostructures Enabling Stable Resistive Switching and Multistate Randomness. Advanced Materials, 2020, 32, e2002704.	21.0	23
92	Microstructure and growth mode at early growth stage of laser-ablated epitaxial Pb(Zr0.52Ti0.48)O3 films on a SrTiO3 substrate. Journal of Applied Physics, 2001, 89, 4497-4502.	2.5	22
93	Electronic properties of atomically thin MoS₂ layers grown by physical vapour deposition: band structure and energy level alignment at layer/substrate interfaces. RSC Advances, 2018, 8, 7744-7752.	3.6	22
94	Hydrogen Evolution Catalyzed by a Molybdenum Sulfide Two-Dimensional Structure with Active Basal Planes. ACS Applied Materials & Interfaces, 2018, 10, 22042-22049.	8.0	22
95	High-Throughput Computational Discovery and Intelligent Design of Two-Dimensional Functional Materials for Various Applications. Accounts of Materials Research, 2022, 3, 572-583.	11.7	21
96	First principles study of Bismuth alloying effects in GaAs saturable absorber. Optics Express, 2012, 20, 11574.	3.4	20
97	Tailoring the electronic properties of SrRuO3 films in SrRuO3/LaAlO3 superlattices. Applied Physics Letters, 2012, 101, 223105.	3.3	20
98	Optical conductivity renormalization of graphene on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">SrTiO</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>due to resonant excitonic effects mediated by Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:r	3.2	20
99	Tuning Contact Barrier Height between Metals and MoS₂ Monolayer through Interface Engineering. Advanced Materials Interfaces, 2017, 4, 1700035.	3.7	19
100	Defect Evolution Enhanced Visible-Light Photocatalytic Activity in Nitrogen-Doped Anatase TiO₂ Thin Films. Journal of Physical Chemistry C, 2018, 122, 16600-16606.	3.1	19
101	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 7964-7972.	9.1	19
102	Possible efficient p-type doping of AlN using Be: An ab initio study. Applied Physics Letters, 2007, 91, 152110.	3.3	18
103	Pressure induced topological phase transition in layered Bi₂S₃. Physical Chemistry Chemical Physics, 2017, 19, 29372-29380.	2.8	18
104	Giant crystalline anisotropic magnetoresistance in nonmagnetic perovskite oxide heterostructures. Physical Review B, 2017, 95, .	3.2	18
105	Large-scale monolayer molybdenum disulfide (MoS₂) for mid-infrared photonics. Nanophotonics, 2020, 9, 4703-4710.	6.0	18
106	Hexagonal TiO₂ for Photoelectrochemical Applications. Journal of Physical Chemistry C, 2011, 115, 18042-18045.	3.1	17
107	Si₂₄: An Efficient Solar Cell Material. Journal of Physical Chemistry C, 2017, 121, 15574-15579.	3.1	17
108	Large Enhancement of 2D Electron Gases Mobility Induced by Interfacial Localized Electron Screening Effect. Advanced Materials, 2018, 30, e1707428.	21.0	17

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109	Band alignment at interfaces of synthetic few-monolayer MoS2 with SiO2 from internal photoemission. APL Materials, 2018, 6, .	5.1	17
110	Modulating Charge Density Wave Order in a 1T-TaS₂/Black Phosphorus Heterostructure. Nano Letters, 2019, 19, 2840-2849.	9.1	17
111	Interface properties of Ge3N4/Ge(111): Ab initio and x-ray photoemission spectroscopy study. Applied Physics Letters, 2008, 93, 222907.	3.3	16
112	Graphene stabilized high-Îº dielectric Y₂O₃ (111) monolayers and their interfacial properties. RSC Advances, 2015, 5, 83588-83593.	3.6	16
113	Surface Modification of Hematite Photoanodes with CeO_x Cocatalyst for Improved Photoelectrochemical Water Oxidation Kinetics. ChemSusChem, 2020, 13, 5489-5496.	6.8	16
114	Giant tunneling electroresistance induced by ferroelectrically switchable two-dimensional electron gas at nonpolar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></m Physical Review B, 2016, 94, .	3.2	15
115	A synchrotron-based photoemission study of the MoO3/Co interface. Journal of Chemical Physics, 2011, 134, 034706.	3.0	14
116	Band alignment of 2D WS2/HfO2 interfaces from x-ray photoelectron spectroscopy and first-principles calculations. Applied Physics Letters, 2018, 112, 171604.	3.3	14
117	Diindenoperylene thin-film structure on MoS2 monolayer. Applied Physics Letters, 2019, 114, .	3.3	14
118	Design of pentagonal NbX monolayers for electronics and electrocatalysis. Applied Surface Science, 2019, 479, 595-600.	6.1	14
119	Waferâ€Scale 2Hâ€MoS₂ Monolayer for High Surfaceâ€enhanced Raman Scattering Performance: Chargeâ€Transfer Coupled with Molecule Resonance. Advanced Materials Technologies, 2022, 7, .	5.8	14
120	Atomic and electronic structures at ZnO and ZrO₂ interface for transparent thinâ€film transistors. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1731-1734.	1.8	13
121	In situ photoemission spectroscopy study on formation of HfO2 dielectrics on epitaxial graphene on SiC substrate. Applied Physics Letters, 2010, 96, 072111.	3.3	12
122	First-principles study of the effect of BiGa heteroantisites in GaAs:Bi alloy. Computational Materials Science, 2012, 63, 178-181.	3.0	12
123	Interfacial Properties of Silicon Nitride Grown on Epitaxial Graphene on 6H-SiC Substrate. Journal of Physical Chemistry C, 2012, 116, 22315-22318.	3.1	12
124	Simultaneous Magnetic and Charge Doping of Topological Insulators with Carbon. Physical Review Letters, 2013, 111, 236803.	7.8	12
125	Direct Observation of Room-Temperature Stable Magnetism in LaAlO₃/SrTiO₃ Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 9774-9781.	8.0	12
126	An energy efficient bi-functional electrode for continuous cation-selective capacitive deionization. Nanoscale, 2020, 12, 22917-22927.	5.6	12

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127	Large-scale few-layered MoS₂ as a saturable absorber for Q-switching operation at 2.3â€…Âµm. Optics Letters, 2022, 47, 3271.	3.3	12
128	Ab initio study on intrinsic defect properties of germanium nitride considered for gate dielectric. Applied Physics Letters, 2007, 91, 132906.	3.3	11
129	Effects of nitrogen incorporation on the electronic structure of rutile-TiO2. Journal of Applied Physics, 2011, 109, .	2.5	11
130	Effect of interfacial strain on spin injection and spin polarization of Co 2 CrAl/NaNbO 3 /Co 2 CrAl magnetic tunneling junction. Europhysics Letters, 2012, 99, 37001.	2.0	11
131	Energy Band Alignment of a Monolayer MoS 2 with SiO 2 and Al 2 O 3 Insulators from Internal Photoemission. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800616.	1.8	11
132	Correlated plasmons in the topological insulator Bi2Se3 induced by long-range electron correlations. NPG Asia Materials, 2020, 12, .	7.9	11
133	Onâ€Surface Synthesis of Variable Bandgap Nanoporous Graphene. Small, 2021, 17, e2102246.	10.0	11
134	Tunable Fluorescence Properties Due to Carbon Incorporation in Zinc Oxide Nanowires. Advanced Optical Materials, 2017, 5, 1700381.	7.3	10
135	Tunable spin and orbital polarization in SrTiO₃-based heterostructures. New Journal of Physics, 2019, 21, 103016.	2.9	10
136	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spinâ€“Orbit Coupling. ACS Nano, 2019, 13, 14529-14539.	14.6	10
137	Employing a Bifunctional Molybdate Precursor To Grow the Highly Crystalline MoS₂ for High-Performance Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 14239-14248.	8.0	10
138	The supramolecular structure and van der Waals interactions affect the electronic structure of ferrocenyl-alkanethiolate SAMs on gold and silver electrodes. Nanoscale Advances, 2019, 1, 1991-2002.	4.6	10
139	A novel layered birnessite-type sodium molybdate as dual-ion electrodes for high capacity battery. Electrochimica Acta, 2020, 363, 137229.	5.2	10
140	Interfacial Oxygenâ€Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. Advanced Materials, 2020, 32, 2000153.	21.0	10
141	Ag₂S monolayer: an ultrasoft inorganic Lieb lattice. Nanoscale, 2021, 13, 14008-14015.	5.6	10
142	The effect of oxygen vacancies on the electronic structures, magnetic properties and the stability of SrTiO3(001) surface. Surface Science, 2015, 641, 37-50.	1.9	9
143	Orbital dependent ultrafast charge transfer dynamics of ferrocenyl-functionalized SAMs on gold studied by core-hole clock spectroscopy. Journal of Physics Condensed Matter, 2016, 28, 094006.	1.8	9
144	Formation of two-dimensional small polarons at the conducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> interface. Physical Review B, 2019, 100, .	3.2	9

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145	Substrate mediated electronic and excitonic reconstruction in a MoS₂ monolayer. Journal of Materials Chemistry C, 2020, 8, 11778-11785.	5.5	9
146	Rashbaâ€“Edelstein Effect in the hâ€BN Van Der Waals Interface for Magnetization Switching. Advanced Materials, 2022, 34, .	21.0	9
147	Band alignments at SrZrO3/Ge(001) interface: Thermal annealing effects. Applied Surface Science, 2010, 256, 4850-4853.	6.1	8
148	A confinement approach to fabricate hybrid PBAs-derived FeCo@NC yolk-shell nanoreactors for bisphenol A degradation. Chemical Engineering Journal, 2022, 428, 131080.	12.7	8
149	Tunable Rashba spin-orbit coupling and its interplay with multiorbital effect and magnetic ordering at oxide interfaces. Physical Review B, 2021, 104, .	3.2	8
150	Structure dependent and strain tunable magnetic ordering in ultrathin chromium telluride. Journal of Alloys and Compounds, 2022, 893, 162223.	5.5	8
151	Multi-Level Resistive Switching in SnSe/SrTiO3 Heterostructure Based Memristor Device. Nanomaterials, 2022, 12, 2128.	4.1	8
152	La interstitial defect-induced insulator-metal transition in the oxide heterostructures <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mo>/</mml:mo><mml:mrow><mml:mi>Sr mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	3.2	7
153	Direct observation of anisotropic small-hole polarons in an orthorhombic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiV</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> films. Physical Review B, 2018, 97, .	3.2	7
154	Thermally Induced Chiral Aggregation of Dihydrobenzopyrenone on Au(111). ACS Applied Materials & Interfaces, 2020, 12, 35547-35554.	8.0	7
155	Flexible Sb0.405Te0.595 photodetectors with broadband spectral response up to 4.5ÂÂµm. Acta Materialia, 2022, 226, 117631.	7.9	7
156	Surface magnetism of Mg doped AlN: a first principle study. Journal of Physics Condensed Matter, 2014, 26, 435801.	1.8	6
157	Modulation of New Excitons in Transition Metal Dichalcogenideâ€Perovskite Oxide System. Advanced Science, 2019, 6, 1900446.	11.2	6
158	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transitionâ€Metal Dichalcogenides. Advanced Science, 2020, 7, 1902726.	11.2	6
159	Selective hydrogenation improves interface properties of high-k dielectrics on 2D semiconductors. Nano Research, 2022, 15, 4646-4652.	10.4	6
160	Tuning polarization states and interface properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:m by metal capping layers. Physical Review B, 2016, 93, .	3.2	5
161	Layer-dependent semiconductor-metal transition of SnO/Si(001) heterostructure and device application. Scientific Reports, 2017, 7, 2570.	3.3	5
162	Electronic correlation determining correlated plasmons in Sb-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physi	3.2	5

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