

Xuefeng Wang

List of Publications by Year in descending order

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210
papers

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citations

23544

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214
all docs

214
docs citations

214
times ranked

17978
citing authors

#	ARTICLE	IF	CITATIONS
1	Hopping transport through defect-induced localized states in molybdenum disulphide. Nature Communications, 2013, 4, 2642.	5.8	935
2	Facile synthesis of high-quality graphene nanoribbons. Nature Nanotechnology, 2010, 5, 321-325.	15.6	757
3	Towards intrinsic charge transport in monolayer molybdenum disulfide by defect and interface engineering. Nature Communications, 2014, 5, 5290.	5.8	563
4	Bandgap engineering of two-dimensional semiconductor materials. Npj 2D Materials and Applications, 2020, 4, .	3.9	528
5	Electrical characterization of back-gated bi-layer MoS ₂ field-effect transistors and the effect of ambient on their performances. Applied Physics Letters, 2012, 100, .	1.5	515
6	Integrated digital inverters based on two-dimensional anisotropic ReS ₂ field-effect transistors. Nature Communications, 2015, 6, 6991.	5.8	505
7	High- μ Electron- μ Mobility and Air- μ Stable 2D Layered PtSe ₂ FETs. Advanced Materials, 2017, 29, 1604230.	11.1	502
8	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. Applied Physics Reviews, 2017, 4, .	5.5	476
9	A Self-Healable, Highly Stretchable, and Solution Processable Conductive Polymer Composite for Ultrasensitive Strain and Pressure Sensing. Advanced Functional Materials, 2018, 28, 1705551.	7.8	387
10	Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. Nature Nanotechnology, 2021, 16, 1201-1207.	15.6	339
11	A MoS ₂ /PTCDA Hybrid Heterojunction Synapse with Efficient Photoelectric Dual Modulation and Versatility. Advanced Materials, 2019, 31, e1806227.	11.1	336
12	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. Nature Communications, 2014, 5, 5162.	5.8	315
13	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS ₂ Field-Effect Transistors. Advanced Functional Materials, 2017, 27, 1604093.	7.8	265
14	Planar carbon nanotube-graphene hybrid films for high-performance broadband photodetectors. Nature Communications, 2015, 6, 8589.	5.8	258
15	Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. Physical Review Letters, 2016, 116, 016602.	2.9	220
16	High-Performance Monolayer WS ₂ Field-Effect Transistors on High- ϵ Dielectrics. Advanced Materials, 2015, 27, 5230-5234.	11.1	218
17	Realization of Room-Temperature Phonon-Limited Carrier Transport in Monolayer MoS ₂ by Dielectric and Carrier Screening. Advanced Materials, 2016, 28, 547-552.	11.1	218
18	Intrinsic magnetic topological insulator phases in the Sb doped MnBi ₂ Te ₄ bulks and thin flakes. Nature Communications, 2019, 10, 4469.	5.8	212

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19	Uniform and ultrathin high- ϵ_r gate dielectrics for two-dimensional electronic devices. Nature Electronics, 2019, 2, 563-571.	13.1	204
20	Stretchable elastic synaptic transistors for neurologically integrated soft engineering systems. Science Advances, 2019, 5, eaax4961.	4.7	191
21	Nontrivial Berry phase and type-II Dirac transport in the layered material PdTe . Physical Review B, 2017, 96, .	1.1	179
22	Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire. Nature, 2022, 605, 69-75.	13.7	174
23	Programmable transition metal dichalcogenide homojunctions controlled by nonvolatile ferroelectric domains. Nature Electronics, 2020, 3, 43-50.	13.1	167
24	Design strategies for two-dimensional material photodetectors to enhance device performance. Information Materials, 2019, 1, 33-53.	8.5	158
25	Evidence of intrinsic ferromagnetism in individual dilute magnetic semiconducting nanostructures. Nature Nanotechnology, 2009, 4, 523-527.	15.6	149
26	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. Science Advances, 2017, 3, e1701186.	4.7	146
27	Graphene nanoribbons for quantum electronics. Nature Reviews Physics, 2021, 3, 791-802.	11.9	141
28	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. Advanced Functional Materials, 2016, 26, 3191-3198.	7.8	136
29	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. Advanced Materials, 2016, 28, 5200-5205.	11.1	134
30	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. Advanced Materials, 2020, 32, e1902039.	11.1	127
31	Defects as a factor limiting carrier mobility in WSe ₂ : A spectroscopic investigation. Nano Research, 2016, 9, 3622-3631.	5.8	126
32	Three-dimensional monolithic micro-LED display driven by atomically thin transistor matrix. Nature Nanotechnology, 2021, 16, 1231-1236.	15.6	120
33	Evidence of Both Surface and Bulk Dirac Bands and Anisotropic Nonsaturating Magnetoresistance in ZrSiS. Advanced Electronic Materials, 2016, 2, 1600228.	2.6	115
34	MoTe ₂ p-n Homojunctions Defined by Ferroelectric Polarization. Advanced Materials, 2020, 32, e1907937.	11.1	115
35	Sensitive and Ultrabroadband Phototransistor Based on Two-Dimensional Bi ₂ O ₂ Se Nanosheets. Advanced Functional Materials, 2019, 29, 1905806.	7.8	106
36	Graphene/Organic Semiconductor Heterojunction Phototransistors with Broadband and Bidirectional Photoresponse. Advanced Materials, 2018, 30, e1804020.	11.1	103

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37	Structural evidence of secondary phase segregation from the Raman vibrational modes in Zn _{1-x} CoxO (x=0.6). <i>Applied Physics Letters</i> , 2007, 91, .	1.5	98
38	200 GHz Maximum Oscillation Frequency in CVD Graphene Radio Frequency Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25645-25649.	4.0	97
39	Structural, optical and magnetic properties of Co-doped ZnO nanorods with hidden secondary phases. <i>Nanotechnology</i> , 2008, 19, 455702.	1.3	96
40	Angle-selective perfect absorption with two-dimensional materials. <i>Light: Science and Applications</i> , 2016, 5, e16052-e16052.	7.7	94
41	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. <i>Nano Letters</i> , 2016, 16, 3754-3759.	4.5	92
42	Ultra-Low-Power Smart Electronic Nose System Based on Three-Dimensional Tin Oxide Nanotube Arrays. <i>ACS Nano</i> , 2018, 12, 6079-6088.	7.3	88
43	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. <i>Nano Letters</i> , 2017, 17, 6391-6396.	4.5	87
44	2D Materials Based Optoelectronic Memory: Convergence of Electronic Memory and Optical Sensor. <i>Research</i> , 2019, 2019, 9490413.	2.8	85
45	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021, 12, 1928.	5.8	83
46	Aggregation-based growth and magnetic properties of inhomogeneous Cu-doped ZnO nanocrystals. <i>Applied Physics Letters</i> , 2007, 90, 212502.	1.5	82
47	Enhancing Magnetic Ordering in Cr-Doped Bi ₂ Se ₃ Using High- <i>T_C</i> Ferrimagnetic Insulator. <i>Nano Letters</i> , 2015, 15, 764-769.	4.5	80
48	Efficient and Layer-Dependent Exciton Pumping across Atomically Thin Organic-Inorganic Type-II Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1803986.	11.1	79
49	Band Structure Engineering of Interfacial Semiconductors Based on Atomically Thin Lead Iodide Crystals. <i>Advanced Materials</i> , 2019, 31, e1806562.	11.1	79
50	Mesoporous iron oxide directly anchored on a graphene matrix for lithium-ion battery anodes with enhanced strain accommodation. <i>RSC Advances</i> , 2013, 3, 699-703.	1.7	76
51	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016, 6, 32327.	1.6	76
52	A Gd@C ₈₂ single-molecule electret. <i>Nature Nanotechnology</i> , 2020, 15, 1019-1024.	15.6	70
53	Two-dimensional universal conductance fluctuations and the electron-phonon interaction of surface states in Bi ₂ Te ₂ Se microflakes. <i>Scientific Reports</i> , 2012, 2, 595.	1.6	69
54	Mo-O bond doping and related-defect assisted enhancement of photoluminescence in monolayer MoS ₂ . <i>AIP Advances</i> , 2014, 4, 123004.	0.6	69

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55	Three-Dimensional Topological Insulator Bi ₂ Te ₃ /Organic Thin Film Heterojunction Photodetector with Fast and Wideband Response from 450 to 3500 Nanometers. ACS Nano, 2019, 13, 755-763.	7.3	68
56	High-Performance Black Phosphorus Field-Effect Transistors with Long-Term Air Stability. Nano Letters, 2019, 19, 331-337.	4.5	62
57	Evidence of weak localization in quantum interference effects observed in epitaxial La _{0.7} Sr _{0.3} MnO ₃ ultrathin films. Scientific Reports, 2016, 6, 26081.	1.6	61
58	Topological transport and atomic tunnellingâ€“clustering dynamics for aged Cu-doped Bi ₂ Te ₃ crystals. Nature Communications, 2014, 5, 5022.	5.8	60
59	Experimental Observation of the Gate-Controlled Reversal of the Anomalous Hall Effect in the Intrinsic Magnetic Topological Insulator MnBi ₂ Te ₄ Device. Nano Letters, 2020, 20, 709-714.	4.5	60
60	Strong optical response and light emission from a monolayer molecular crystal. Nature Communications, 2019, 10, 5589.	5.8	59
61	Lowâ€“Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. Advanced Functional Materials, 2020, 30, 2003859.	7.8	58
62	Solvothermal Synthesis of Lateral Heterojunction Sb ₂ Te ₃ /Bi ₂ Te ₃ Nanoplates. Nano Letters, 2015, 15, 5905-5911.	4.5	56
63	Solventâ€“Based Softâ€“Patterning of Graphene Lateral Heterostructures for Broadband Highâ€“Speed Metalâ€“Semiconductorâ€“Metal Photodetectors. Advanced Materials Technologies, 2017, 2, 1600241.	3.0	53
64	Layerâ€“Defining Strategy to Grow Twoâ€“Dimensional Molecular Crystals on a Liquid Surface down to the Monolayer Limit. Angewandte Chemie - International Edition, 2019, 58, 16082-16086.	7.2	53
65	Solutionâ€“Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. Advanced Materials Technologies, 2019, 4, 1800182.	3.0	53
66	Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors. ACS Applied Materials & Interfaces, 2017, 9, 18127-18133.	4.0	52
67	Oxide Synaptic Transistors Coupled With Triboelectric Nanogenerators for Bio-Inspired Tactile Sensing Application. IEEE Electron Device Letters, 2020, 41, 617-620.	2.2	51
68	Ultrahigh Stability 3D TI Bi ₂ Se ₃ /MoO ₃ Thin Film Heterojunction Infrared Photodetector at Optical Communication Waveband. Advanced Functional Materials, 2020, 30, 1909659.	7.8	50
69	Imperfect oriented attachment: Direct activation of high-temperature ferromagnetism in diluted magnetic semiconductor nanocrystals. Applied Physics Letters, 2006, 88, 223108.	1.5	49
70	Recent breakthroughs in two-dimensional van der Waals magnetic materials and emerging applications. Nano Today, 2020, 34, 100902.	6.2	49
71	Band Structure Perfection and Superconductivity in Typeâ€“II Dirac Semimetal Ir _{1-x} Pt _x Te ₂ . Advanced Materials, 2018, 30, e1801556.	11.1	47
72	Giant Tunability of the Two-Dimensional Electron Gas at the Interface of Î³-Al ₂ O ₃ /SrTiO ₃ . Nano Letters, 2017, 17, 6878-6885.	4.5	44

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73	High-Mobility Sm-Doped Bi ₂ Se ₃ Ferromagnetic Topological Insulators and Robust Exchange Coupling. <i>Advanced Materials</i> , 2015, 27, 4823-4829.	11.1	43
74	The positive piezoconductive effect in graphene. <i>Nature Communications</i> , 2015, 6, 8119.	5.8	43
75	Scaling Dopant States in a Semiconducting Nanostructure by Chemically Resolved Electron Energy-Loss Spectroscopy: A Case Study on Co-Doped ZnO. <i>Journal of the American Chemical Society</i> , 2010, 132, 6492-6497.	6.6	41
76	Light-modulated vertical heterojunction phototransistors with distinct logical photocurrents. <i>Light: Science and Applications</i> , 2020, 9, 167.	7.7	40
77	Retina-Inspired Self-Powered Artificial Optoelectronic Synapses with Selective Detection in Organic Asymmetric Heterojunctions. <i>Advanced Science</i> , 2022, 9, e2103494.	5.6	40
78	Experimental evidence and control of the bulk-mediated intersurface coupling in topological insulator $\langle \text{Bi} \rangle_{2\langle \text{Bi} \rangle}^{\langle \text{Bi} \rangle}$ <i>Physical Review B</i> , 2015, 91, .	5.1	39
79	ZrO ₂ Ferroelectric FET for Non-volatile Memory Application. <i>IEEE Electron Device Letters</i> , 2019, 40, 1419-1422.	2.2	38
80	Spin-Coated Crystalline Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1318-1323.	2.1	37
81	Repairing atomic vacancies in single-layer MoSe ₂ field-effect transistor and its defect dynamics. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	36
82	Epitaxial Topological Insulator Bi ₂ Te ₃ for Fast Visible to Mid-Infrared Heterojunction Photodetector by Graphene As Charge Collection Medium. <i>ACS Nano</i> , 2022, 16, 4851-4860.	7.3	35
83	Anomalous quantization trajectory and parity anomaly in Co cluster decorated BiSbTeSe ₂ nanodevices. <i>Nature Communications</i> , 2017, 8, 977.	5.8	34
84	Tuning the transport behavior of centimeter-scale WTe ₂ ultrathin films fabricated by pulsed laser deposition. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	34
85	Precise Extraction of Charge Carrier Mobility for Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 1904508.	7.8	34
86	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. <i>Scientific Reports</i> , 2017, 7, 7830.	1.6	32
87	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe ₂ semimetal films. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	31
88	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. <i>Nano Research</i> , 2017, 10, 1336-1344.	5.8	30
89	Transport evidence of 3D topological nodal-line semimetal phase in ZrSiS. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	30
90	pJ-Level Energy-Consuming, Low-Voltage Ferroelectric Organic Field-Effect Transistor Memories. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2335-2340.	2.1	30

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91	Three-Dimensional Anisotropic Magnetoresistance in the Dirac Node-Line Material ZrSiSe. Scientific Reports, 2018, 8, 9340.	1.6	29
92	Lattice dynamics of Dirac node-line semimetal ZrSiS. Physical Review B, 2017, 96, .	1.1	28
93	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. Journal of Materials Chemistry C, 2017, 5, 11246-11251.	2.7	27
94	Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System. Advanced Electronic Materials, 2018, 4, 1800055.	2.6	27
95	Ultrahigh Hall mobility and suppressed backward scattering in layered semiconductor Bi ₂ O ₂ Se. Applied Physics Letters, 2018, 113, .	1.5	27
96	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. Communications Physics, 2019, 2, .	2.0	27
97	Visualizing Plasmon Coupling in Closely Spaced Chains of Ag Nanoparticles by Electron Energy-Loss Spectroscopy. Small, 2010, 6, 446-451.	5.2	25
98	Uniform wurtzite MnSe nanocrystals with surface-dependent magnetic behavior. Nano Research, 2013, 6, 275-285.	5.8	25
99	Formation and properties of chalcogenide glasses in the GeS ₂ -Ga ₂ S ₃ -CdS system. Materials Chemistry and Physics, 2004, 83, 284-288.	2.0	24
100	Coupled relaxation channels of excitons in monolayer MoSe ₂ . Nanoscale, 2017, 9, 18546-18551.	2.8	22
101	Few-Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. Advanced Electronic Materials, 2020, 6, 2000062.	2.6	22
102	Controllable synthesis and magnetotransport properties of Cd ₃ As ₂ Dirac semimetal nanostructures. RSC Advances, 2017, 7, 17689-17696.	1.7	21
103	Soft and transient magnesium plasmonics for environmental and biomedical sensing. Nano Research, 2018, 11, 4390-4400.	5.8	21
104	Quantum oscillations in type-II Dirac semimetal PtTe_2 . Physical Review B, 2018, 97, .	1.1	21
105	Third harmonic generation in Dirac semimetal Cd ₃ As ₂ . Applied Physics Letters, 2020, 117, .	1.5	21
106	Magnitude and Spatial Distribution Control of the Supercurrent in Bi ₂ O ₂ Se-Based Josephson Junction. Nano Letters, 2020, 20, 2569-2575.	4.5	21
107	Direct observation of high spin polarization in Co ₂ FeAl thin films. Scientific Reports, 2018, 8, 8074.	1.6	20
108	Nanocrystal-Embedded-Insulator (NEI) Ferroelectric Field-Effect Transistor Featuring Low Operating Voltages and Improved Synaptic Behavior. IEEE Electron Device Letters, 2019, 40, 1933-1936.	2.2	20

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109	Polarimetric Three-Dimensional Topological Insulators/Organics Thin Film Heterojunction Photodetectors. ACS Nano, 2019, 13, 10810-10817.	7.3	20
110	Flexible field-effect transistor arrays with patterned solution-processed organic crystals. AIP Advances, 2013, 3, .	0.6	19
111	Identification of defect-related emissions in ZnO hybrid materials. Applied Physics Letters, 2015, 107, .	1.5	19
112	The Material Efforts for Quantized Hall Devices Based on Topological Insulators. Advanced Materials, 2020, 32, e1904593.	11.1	19
113	1D Mixed-Stack Cocrystals Based on Perylene Diimide toward Ambipolar Charge Transport. Small, 2021, 17, e2006574.	5.2	19
114	Experimental evidence on the Altshuler-Aronov-Spivak interference of the topological surface states in the exfoliated Bi ₂ Te ₃ nanoflakes. Applied Physics Letters, 2012, 100, .	1.5	18
115	Indications of topological transport by universal conductance fluctuations in Bi ₂ Te ₃ Se microflakes. Applied Physics Express, 2014, 7, 065202.	1.1	18
116	Evidence of layered transport of bulk carriers in Fe-doped Bi ₂ Se ₃ topological insulators. Solid State Communications, 2015, 211, 29-33.	0.9	18
117	Intrinsic ferromagnetism and quantum transport transition in individual Fe-doped Bi ₂ Se ₃ topological insulator nanowires. Nanoscale, 2017, 9, 12372-12378.	2.8	18
118	Suppressed carrier density for the patterned high mobility two-dimensional electron gas at β -Al ₂ O ₃ /SrTiO ₃ heterointerfaces. Applied Physics Letters, 2017, 111, 021602.	1.5	18
119	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22513-22519.	4.0	18
120	Observation of Shubnikov-de Haas Oscillations in Large-Scale Weyl Semimetal WTe ₂ Films. Chinese Physics Letters, 2020, 37, 017104.	1.3	18
121	Ferroelectric tunnel junctions with high tunnelling electroresistance. Nature Electronics, 2020, 3, 440-441.	13.1	18
122	The mechanism exploration for zero-field ferromagnetism in intrinsic topological insulator MnBi ₂ Te ₄ by Bi ₂ Te ₃ intercalations. Applied Physics Letters, 2020, 116, 221902.	1.5	17
123	Magnetic and electrical properties of μ -Fe ₃ N on c-plane GaN. Journal Physics D: Applied Physics, 2012, 45, 315002.	1.3	16
124	A molecular understanding of the gas-phase reduction and doping of graphene oxide. Nano Research, 2012, 5, 361-368.	5.8	16
125	Layered Semiconductor Bi ₂ O ₂ Se for Broadband Pulse Generation in the Near-Infrared. IEEE Photonics Technology Letters, 2019, 31, 1056-1059.	1.3	16
126	Broadband near-infrared emission in Tm ³⁺ -Dy ³⁺ codoped amorphous chalcogenide films fabricated by pulsed laser deposition. Optics Express, 2011, 19, 26529.	1.7	15

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127	Oxygen pressure-tuned epitaxy and magnetic properties of magnetite thin films. Journal of Magnetism and Magnetic Materials, 2017, 432, 472-476.	1.0	15
128	Ultrafast microwave synthesis of rambutan-like CMK-3/carbon nanotubes nanocomposites for high-performance supercapacitor electrode materials. Scientific Reports, 2020, 10, 6227.	1.6	15
129	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer In_2S_3 Aggregate Organic Crystal with Graphene. Advanced Optical Materials, 2021, 9, 2100158.	3.6	15
130	Coexistence of ferromagnetism and topology by charge carrier engineering in the intrinsic magnetic topological insulator MnBi . Physical Review B, 2021, 104, .	1.1	15
131	Experimental evidence for dissipationless transport of the chiral edge state of the high-field Chern insulator in MnBi nanodevices. Physical Review B, 2022, 105, .	1.1	15
132	Quantum oscillation and nontrivial transport in the Dirac semimetal Cd_3As_2 nanodevice. Applied Physics Letters, 2016, 108, 183103.	1.5	14
133	Unveiling the piezoelectric nature of polar \pm -phase P(VDF-TrFE) at quasi-two-dimensional limit. Scientific Reports, 2018, 8, 532.	1.6	14
134	Electrolyte gate controlled metal-insulator transitions of the $\text{CaZrO}_3/\text{SrTiO}_3$ heterointerface. Applied Physics Letters, 2019, 115, 061601.	1.5	14
135	Third-order nonlinear optical properties of WTe_2 films synthesized by pulsed laser deposition. Photonics Research, 2019, 7, 1493.	3.4	14
136	Room-temperature observations of the weak localization in low-mobility graphene films. Journal of Applied Physics, 2013, 114, 214502.	1.1	13
137	Unveiling the structural origin of the high carrier mobility of a molecular monolayer on boron nitride. Physical Review B, 2014, 90, .	1.1	13
138	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in Bi_2Se_3 Nanodevices. ACS Nano, 2018, 12, 1537-1543.	7.3	13
139	Ultrafast Orbital-Oriented Control of Magnetization in Half-Metallic $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Films. Advanced Materials, 2019, 31, e1806443.	11.1	13
140	Thickness-Dependent Asymmetric Potential Landscape and Polarization Relaxation in Ferroelectric $\text{HfO}_2/\text{ZrO}_2$ Thin Films through Interfacial Bound Charges. Advanced Electronic Materials, 2019, 5, 1900554.	2.6	13
141	Topological Insulator SnBi Nanodevices. ACS Nano, 2018, 12, 1537-1543.	1.1	13
142	High-Performance CVD MoS_2 Transistors with Self-Aligned Top-Gate and Bi Contact. , 2021, .		13
143	(Er, Yb)-co-doped multifunctional ZnO transparent hybrid materials: fabrication, luminescent and magnetic properties. Journal Physics D: Applied Physics, 2011, 44, 155404.	1.3	12
144	Spin-ARPES EUV Beamline for Ultrafast Materials Research and Development. Applied Sciences (Switzerland), 2019, 9, 370.	1.3	12

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145	Multiplexed neurochemical transmission emulated using a dual-excitatory synaptic transistor. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	12
146	Large Linear Magnetoresistance of High-Mobility 2D Electron System at Nonisostructural $\beta\text{-Al}_2\text{O}_3/\text{SrTiO}_3$ Heterointerfaces. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101235.	1.9	12
147	Nontrivial surface state transport in Bi_2Se_3 topological insulator nanoribbons. <i>Applied Physics Letters</i> , 2017, 110, 053108.	1.5	11
148	The study on quantum material WTe_2 . <i>Advances in Physics: X</i> , 2018, 3, 1468279.	1.5	11
149	Recent Advances on Spin-Polarized Two-Dimensional Electron Gases at Oxide Interfaces. <i>ACS Applied Electronic Materials</i> , 2021, 3, 128-144.	2.0	11
150	Calibrating the atomic balance by carbon nanoclusters. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	10
151	Chemical stitching. <i>Nature Nanotechnology</i> , 2014, 9, 875-876.	15.6	10
152	Enhanced quantum coherence in graphene caused by Pd cluster deposition. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	10
153	Peculiar Magnetotransport Features of Ultranarrow Graphene Nanoribbons under High Magnetic Field. <i>ACS Nano</i> , 2016, 10, 1853-1858.	7.3	10
154	Tuning the electrical transport of type II Weyl semimetal WTe_2 nanodevices by Ga^+ ion implantation. <i>Scientific Reports</i> , 2017, 7, 12688.	1.6	10
155	Layered Topological Insulators and Semimetals for Magneto-resistance Type Sensors. <i>Advanced Quantum Technologies</i> , 2019, 2, 1800039.	1.8	10
156	Observation of bimolecular recombination in high mobility semiconductor $\text{Bi}_2\text{O}_2\text{Se}$ using ultrafast spectroscopy. <i>Applied Physics Letters</i> , 2018, 113, 061104.	1.5	10
157	Charge carrier mediation and ferromagnetism induced in $\text{MnBi}_6\text{Te}_{10}$ magnetic topological insulators by antimony doping. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 104002.	1.3	9
158	Fully Optical Modulation of the Two-Dimensional Electron Gas at the $\beta\text{-Al}_2\text{O}_3/\text{SrTiO}_3$ Interface. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2976-2985.	2.1	9
159	Molecular-Layer-Defined Asymmetric Schottky Contacts in Organic Planar Diodes for Self-Powered Optoelectronic Synapses. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2338-2347.	2.1	9
160	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem. <i>Research</i> , 2021, 2021, 9820502.	2.8	9
161	Sizeable Kane-like spin orbit coupling in graphene decorated with iridium clusters. <i>Applied Physics Letters</i> , 2016, 108, 203106.	1.5	8
162	Spin valley and giant quantum spin Hall gap of hydrofluorinated bismuth nanosheet. <i>Scientific Reports</i> , 2018, 8, 7436.	1.6	8

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