

Jinfei Wu

List of Publications by Year in descending order

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349
papers

37,448
citations

4942

84
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3021

188
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358
all docs

358
docs citations

358
times ranked

40261
citing authors

#	ARTICLE	IF	CITATIONS
1	Epidermal Electronics. <i>Science</i> , 2011, 333, 838-843.	6.0	3,944
2	Ultrafast charge transfer in atomically thin MoS ₂ /WS ₂ heterostructures. <i>Nature Nanotechnology</i> , 2014, 9, 682-686.	15.6	1,838
3	Unusual properties of the fundamental band gap of InN. <i>Applied Physics Letters</i> , 2002, 80, 3967-3969.	1.5	1,380
4	Band offsets and heterostructures of two-dimensional semiconductors. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	1,361
5	Thermally Driven Crossover from Indirect toward Direct Bandgap in 2D Semiconductors: MoSe ₂ versus MoS ₂ . <i>Nano Letters</i> , 2012, 12, 5576-5580.	4.5	1,206
6	Monolayer behaviour in bulk ReS ₂ due to electronic and vibrational decoupling. <i>Nature Communications</i> , 2014, 5, 3252.	5.8	906
7	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged and free excitons. <i>Scientific Reports</i> , 2013, 3, 2657.	1.6	876
8	An excess of cosmic ray electrons at energies of 300â€“800â€‰GeV. <i>Nature</i> , 2008, 456, 362-365.	13.7	861
9	When group-III nitrides go infrared: New properties and perspectives. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	756
10	Printed Assemblies of Inorganic Light-Emitting Diodes for Deformable and Semitransparent Displays. <i>Science</i> , 2009, 325, 977-981.	6.0	748
11	Tuning Interlayer Coupling in Large-Area Heterostructures with CVD-Grown MoS ₂ and WS ₂ Monolayers. <i>Nano Letters</i> , 2014, 14, 3185-3190.	4.5	683
12	Broad-Range Modulation of Light Emission in Two-Dimensional Semiconductors by Molecular Physisorption Gating. <i>Nano Letters</i> , 2013, 13, 2831-2836.	4.5	674
13	Doping against the Native Propensity of MoS ₂ : Degenerate Hole Doping by Cation Substitution. <i>Nano Letters</i> , 2014, 14, 6976-6982.	4.5	574
14	Superior radiation resistance of In _{1-x} Ga _x N alloys: Full-solar-spectrum photovoltaic material system. <i>Journal of Applied Physics</i> , 2003, 94, 6477-6482.	1.1	572
15	Small band gap bowing in In _{1-x} Ga _x N alloys. <i>Applied Physics Letters</i> , 2002, 80, 4741-4743.	1.5	563
16	Strain engineering and one-dimensional organization of metal-insulator domains in single-crystal vanadium dioxide beams. <i>Nature Nanotechnology</i> , 2009, 4, 732-737.	15.6	562
17	Elastic Properties of Chemical-Vapor-Deposited Monolayer MoS ₂ , WS ₂ , and Their Bilayer Heterostructures. <i>Nano Letters</i> , 2014, 14, 5097-5103.	4.5	512
18	Anomalous Raman spectra and thickness-dependent electronic properties of WSe ₂ . <i>Physical Review B</i> , 2013, 87, .	1.1	408

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19	Temperature dependence of the fundamental band gap of InN. Journal of Applied Physics, 2003, 94, 4457-4460.	1.1	375
20	Effects of the narrow band gap on the properties of InN. Physical Review B, 2002, 66, .	1.1	374
21	Microstructured elastomeric surfaces with reversible adhesion and examples of their use in deterministic assembly by transfer printing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17095-17100.	3.3	356
22	Valence-band anticrossing in mismatched III-V semiconductor alloys. Physical Review B, 2007, 75, .	1.1	354
23	Two-Dimensional Materials for Thermal Management Applications. Joule, 2018, 2, 442-463.	11.7	353
24	Efficient Photovoltaic Current Generation at Ferroelectric Domain Walls. Physical Review Letters, 2011, 107, 126805.	2.9	346
25	Scalable enhancement of graphene oxide properties by thermally driven phase transformation. Nature Chemistry, 2014, 6, 151-158.	6.6	326
26	Thermal diodes, regulators, and switches: Physical mechanisms and potential applications. Applied Physics Reviews, 2017, 4, 041304.	5.5	322
27	Recent progresses on physics and applications of vanadium dioxide. Materials Today, 2018, 21, 875-896.	8.3	318
28	Anisotropic in-plane thermal conductivity of black phosphorus nanoribbons at temperatures higher than 100 K. Nature Communications, 2015, 6, 8573.	5.8	311
29	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. Science, 2017, 355, 371-374.	6.0	307
30	Band anticrossing in highly mismatched III-V semiconductor alloys. Semiconductor Science and Technology, 2002, 17, 860-869.	1.0	298
31	Strain-Induced Self Organization of Metal-Insulator Domains in Single-Crystalline VO ₂ Nanobeams. Nano Letters, 2006, 6, 2313-2317.	4.5	285
32	Optical properties of single-crystalline ZnO nanowires on m-sapphire. Applied Physics Letters, 2003, 82, 2023-2025.	1.5	283
33	Diluted II-VI Oxide Semiconductors with Multiple Band Gaps. Physical Review Letters, 2003, 91, 246403.	2.9	268
34	Temperature-adaptive radiative coating for all-season household thermal regulation. Science, 2021, 374, 1504-1509.	6.0	251
35	Magnetic properties of MoS ₂ : Existence of ferromagnetism. Applied Physics Letters, 2012, 101, .	1.5	249
36	Structure and electronic properties of InN and In-rich group III-nitride alloys. Journal Physics D: Applied Physics, 2006, 39, R83-R99.	1.3	229

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37	Nature of the fundamental band gap in GaN _x P _{1-x} alloys. Applied Physics Letters, 2000, 76, 3251-3253.	1.5	228
38	Effects of electron concentration on the optical absorption edge of InN. Applied Physics Letters, 2004, 84, 2805-2807.	1.5	221
39	Extended Mapping and Exploration of the Vanadium Dioxide Stress-Temperature Phase Diagram. Nano Letters, 2010, 10, 2667-2673.	4.5	215
40	Monolayer semiconducting transition metal dichalcogenide alloys: Stability and band bowing. Journal of Applied Physics, 2013, 113, .	1.1	214
41	Visualizing nanoscale excitonic relaxation properties of disordered edges and grain boundaries in monolayer molybdenum disulfide. Nature Communications, 2015, 6, 7993.	5.8	204
42	Mechanics and Dynamics of the Strain-Induced M ₁ →M ₂ Structural Phase Transition in Individual VO ₂ Nanowires. Nano Letters, 2011, 11, 3207-3213.	4.5	197
43	Raman Spectroscopy and Time-Resolved Photoluminescence of BN and B _x C _y N _z Nanotubes. Nano Letters, 2004, 4, 647-650.	4.5	194
44	Finite element simulations of compositionally graded InGaN solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 478-483.	3.0	192
45	Strain and temperature dependence of the insulating phases of VO ₂ near the metal-insulator transition. Physical Review B, 2012, 85, .	1.1	192
46	Fermi-level stabilization energy in group III nitrides. Physical Review B, 2005, 71, .	1.1	190
47	Interlayer electron-phonon coupling in WSe ₂ /hBN heterostructures. Nature Physics, 2017, 13, 127-131.	6.5	173
48	Third generation photovoltaics. Laser and Photonics Reviews, 2009, 3, 394-405.	4.4	168
49	Thermal camouflaging metamaterials. Materials Today, 2021, 45, 120-141.	8.3	165
50	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. Advanced Materials, 2018, 30, e1800754.	11.1	161
51	Band gaps of InN and group III nitride alloys. Superlattices and Microstructures, 2003, 34, 63-75.	1.4	159
52	Dopant profiling and surface analysis of silicon nanowires using capacitance-voltage measurements. Nature Nanotechnology, 2009, 4, 311-314.	15.6	159
53	Giant-Amplitude, High-Work Density Microactuators with Phase Transition Activated Nanolayer Bimorphs. Nano Letters, 2012, 12, 6302-6308.	4.5	158
54	Optical properties and electronic structure of InN and In-rich group III-nitride alloys. Journal of Crystal Growth, 2004, 269, 119-127.	0.7	157

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55	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. Nano Letters, 2016, 16, 3221-3229.	4.5	155
56	Two-dimensional semiconductor alloys: Monolayer $\text{Mo}_1\text{W}_x\text{Se}_2$. Applied Physics Letters, 2014, 104, .	1.5	154
57	Large resistivity modulation in mixed-phase metallic systems. Nature Communications, 2015, 6, 5959.	5.8	154
58	Formation and stability of point defects in monolayer rhenium disulfide. Physical Review B, 2014, 89, .	1.1	151
59	Thermal tuning of infrared resonant absorbers based on hybrid gold-VO ₂ nanostructures. Applied Physics Letters, 2015, 106, .	1.5	150
60	Decoupling of Structural and Electronic Phase Transitions in VO_2 . Physical Review Letters, 2012, 109, 166406.	2.9	145
61	Comprehensive study of the metal-insulator transition in pulsed laser deposited epitaxial VO ₂ thin films. Journal of Applied Physics, 2013, 113, .	1.1	134
62	Ferroelectrically Gated Atomically Thin Transition Metal Dichalcogenides as Nonvolatile Memory. Advanced Materials, 2016, 28, 2923-2930.	11.1	134
63	Current-Driven Phase Oscillation and Domain-Wall Propagation in WxV1-xO2 Nanobeams. Nano Letters, 2007, 7, 363-366.	4.5	133
64	Strain effects in low-dimensional transition metal oxides. Materials Science and Engineering Reports, 2011, 71, 35-52.	14.8	130
65	Reconfiguring crystal and electronic structures of MoS ₂ by substitutional doping. Nature Communications, 2018, 9, 199.	5.8	128
66	Germanium Telluride Nanowires and Nanohelices with Memory-Switching Behavior. Journal of the American Chemical Society, 2006, 128, 8148-8149.	6.6	127
67	Temperature-Gated Thermal Rectifier for Active Heat Flow Control. Nano Letters, 2014, 14, 4867-4872.	4.5	126
68	Probing Local Strain at MX ₂ Metal Boundaries with Surface Plasmon-Enhanced Raman Scattering. Nano Letters, 2014, 14, 5329-5334.	4.5	118
69	Electronic structure, spin-orbit coupling, and interlayer interaction in bulk MoS_2 and WS_2 . Physical Review B, 2015, 91, .	1.1	116
70	Gate Coupling and Charge Distribution in Nanowire Field Effect Transistors. Nano Letters, 2007, 7, 2778-2783.	4.5	115
71	Direct Measurement of Rotatable and Frozen CoO Spins in Exchange Bias System of $\text{CoO}/\text{Fe}/\text{Ag}$. Physical Review Letters, 2015, 115, 077201.	11.1	115
72	Work function engineering of single layer graphene by irradiation-induced defects. Applied Physics Letters, 2013, 103, .	1.5	113

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73	Universal bandgap bowing in group-III nitride alloys. <i>Solid State Communications</i> , 2003, 127, 411-414.	0.9	104
74	Ultra-long, free-standing, single-crystalline vanadium dioxide micro/nanowires grown by simple thermal evaporation. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	103
75	Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction. <i>Advanced Materials</i> , 2016, 28, 341-346.	11.1	101
76	Simultaneous Enhancement of Electrical Conductivity and Thermopower of Bi ₂ Te ₃ by Multifunctionality of Native Defects. <i>Advanced Materials</i> , 2015, 27, 3681-3686.	11.1	97
77	Axially Engineered Metal-Insulator Phase Transition by Graded Doping VO ₂ Nanowires. <i>Journal of the American Chemical Society</i> , 2013, 135, 4850-4855.	6.6	96
78	MoS ₂ Heterojunctions by Thickness Modulation. <i>Scientific Reports</i> , 2015, 5, 10990.	1.6	93
79	Enhancing the Thermoelectric Power Factor with Highly Mismatched Isoelectronic Doping. <i>Physical Review Letters</i> , 2010, 104, 016602.	2.9	92
80	Large kinetic asymmetry in the metal-insulator transition nucleated at localized and extended defects. <i>Physical Review B</i> , 2011, 83, .	1.1	92
81	Growth of a-plane InN on r-plane sapphire with a GaN buffer by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2003, 83, 1136-1138.	1.5	91
82	Anomalous independence of interface superconductivity from carrier density. <i>Nature Materials</i> , 2013, 12, 877-881.	13.3	89
83	Intensity tunable infrared broadband absorbers based on VO ₂ phase transition using planar layered thin films. <i>Scientific Reports</i> , 2015, 5, 13384.	1.6	89
84	Valence band hybridization in N-rich GaN _{1-x} As _x alloys. <i>Physical Review B</i> , 2004, 70, .	1.1	86
85	Intrinsic Optical Properties of Vanadium Dioxide near the Insulator-Metal Transition. <i>Nano Letters</i> , 2011, 11, 466-470.	4.5	85
86	Mechanical properties of two-dimensional materials and heterostructures. <i>Journal of Materials Research</i> , 2016, 31, 832-844.	1.2	84
87	Effect of band anticrossing on the optical transitions in GaAs _{1-x} N _x /GaAs multiple quantum wells. <i>Physical Review B</i> , 2001, 64, .	1.1	83
88	Synthesis and optical properties of II-O-VI highly mismatched alloys. <i>Journal of Applied Physics</i> , 2004, 95, 6232-6238.	1.1	82
89	Direct observation of imprinted antiferromagnetic vortex states in CoO/Fe/Ag(001) discs. <i>Nature Physics</i> , 2011, 7, 303-306.	6.5	82
90	Atomic gold-enabled three-dimensional lithography for silicon mesostructures. <i>Science</i> , 2015, 348, 1451-1455.	6.0	82

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91	Pressure-induced phase transitions and metallization in VO_2 . Physical Review B, 2015, 91, .		
92	Magnetic stripe melting at the spin reorientation transition in $\text{Fe}^{2+}\text{Ni}^{2+}\text{Cu}(\text{OO})_2$. Physical Review B, 2005, 71, .	1.1	77
93	Thermoelectric Effect across the Metal-Insulator Domain Walls in VO_2 Microbeams. Nano Letters, 2009, 9, 4001-4006.	4.5	77
94	Perspectives on Thermoelectricity in Layered and 2D Materials. Advanced Electronic Materials, 2018, 4, 1800248.	2.6	77
95	Effect of oxygen on the electronic band structure in $\text{ZnO}_x\text{Se}_{1-x}$ alloys. Applied Physics Letters, 2003, 83, 299-301.	1.5	76
96	Powerful, Multifunctional Torsional Micromuscles Activated by Phase Transition. Advanced Materials, 2014, 26, 1746-1750.	11.1	76
97	Colossal thermal-mechanical actuation via phase transition in single-crystal VO_2 microcantilevers. Journal of Applied Physics, 2010, 108, .	1.1	75
98	A Lithography-Free and Field-Programmable Photonic Metacanvas. Advanced Materials, 2018, 30, 1703878.	11.1	75
99	A Thermal Radiation Modulation Platform by Emissivity Engineering with Graded Metal-Insulator Transition. Advanced Materials, 2020, 32, e1907071.	11.1	75
100	Band structure of highly mismatched semiconductor alloys: Coherent potential approximation. Physical Review B, 2002, 65, .	1.1	74
101	Pressure dependence of the fundamental band-gap energy of CdSe. Applied Physics Letters, 2004, 84, 67-69.	1.5	70
102	Field-effect modulation of conductance in VO_2 nanobeam transistors with HfO_2 as the gate dielectric. Applied Physics Letters, 2011, 99, .	1.5	70
103	Flat Bands in Magic-Angle Bilayer Photonic Crystals at Small Twists. Physical Review Letters, 2021, 126, 223601.	2.9	69
104	Band anticrossing in $\text{Ga}_{1-x}\text{N}_x$ alloys. Physical Review B, 2002, 65, .	1.1	67
105	Origin of the large band-gap bowing in highly mismatched semiconductor alloys. Physical Review B, 2003, 67, .	1.1	67
106	Effects of Quantum Confinement on the Doping Limit of Semiconductor Nanowires. Nano Letters, 2007, 7, 1186-1190.	4.5	67
107	Determination of the minority carrier diffusion length in compositionally graded $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells using electron beam induced current. Applied Physics Letters, 2010, 96, .	1.5	66
108	Performance Limits of Microactuation with Vanadium Dioxide as a Solid Engine. ACS Nano, 2013, 7, 2266-2272.	7.3	66

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109	Nitrogen-induced increase of the maximum electron concentration in group III-N-V alloys. <i>Physical Review B</i> , 2000, 61, R13337-R13340.	1.1	65
110	Hydrostatic pressure dependence of the fundamental bandgap of InN and In-rich group III nitride alloys. <i>Applied Physics Letters</i> , 2003, 83, 4963-4965.	1.5	65
111	Pressure-Temperature Phase Diagram of Vanadium Dioxide. <i>Nano Letters</i> , 2017, 17, 2512-2516.	4.5	65
112	The asymmetry of antimatter in the proton. <i>Nature</i> , 2021, 590, 561-565.	13.7	65
113	Gate-dependent pseudospin mixing in graphene/boron nitride moiré superlattices. <i>Nature Physics</i> , 2014, 10, 743-747.	6.5	64
114	Heat Transfer across the Interface between Nanoscale Solids and Gas. <i>ACS Nano</i> , 2011, 5, 10102-10107.	7.3	63
115	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , 2013, 5, 4669.	2.8	63
116	Thermal redistribution of photocarriers between bimodal quantum dots. <i>Journal of Applied Physics</i> , 2001, 90, 1973-1976.	1.1	62
117	Thermodynamics of strained vanadium dioxide single crystals. <i>Journal of Applied Physics</i> , 2010, 108, 083517.	1.1	62
118	Synthesis and gas sensitivity of In-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 521-526.	1.1	61
119	Effects of surface states on electrical characteristics of InN and $\text{In}_{1-x}\text{Ga}_x\text{N}$. <i>Physical Review B</i> , 2007, 76, .	1.1	61
120	Magnetic Bubble Domain Phase at the Spin Reorientation Transition of Ultrathin Fe/Ni/Cu(001) Film. <i>Physical Review Letters</i> , 2007, 98, 207205.	2.9	60
121	High quality InN/GaN heterostructures grown by migration enhanced metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2004, 84, 1892-1894.	1.5	59
122	Large bandgap of pressurized trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9186-9190.	3.3	59
123	Bandgap Restructuring of the Layered Semiconductor Gallium Telluride in Air. <i>Advanced Materials</i> , 2016, 28, 6465-6470.	11.1	58
124	Dense Electron System from Gate-Controlled Surface Metal-Insulator Transition. <i>Nano Letters</i> , 2012, 12, 6272-6277.	4.5	57
125	Mutual passivation of electrically active and isovalent impurities. <i>Nature Materials</i> , 2002, 1, 185-189.	13.3	55
126	Mg-doped InN and InGaN Photoluminescence, capacitance-voltage and thermopower measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 873-877.	0.7	55

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127	Tunable analog thermal material. Nature Communications, 2020, 11, 6028.	5.8	55
128	Suppression of thermal conductivity in $\text{In}_x\text{Ga}_{1-x}\text{N}$ alloys by nanometer-scale disorder. Applied Physics Letters, 2013, 102, 121906.	1.5	53
129	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. Nano Letters, 2017, 17, 4982-4988.	4.5	53
130	Electrothermal Dynamics of Semiconductor Nanowires under Local Carrier Modulation. Nano Letters, 2011, 11, 3809-3815.	4.5	50
131	Structure-Dependent Hydrostatic Deformation Potentials of Individual Single-Walled Carbon Nanotubes. Physical Review Letters, 2004, 93, .	2.9	49
132	Synthesis of $\text{Ga}_x\text{As}_{1-x}$ thin films by pulsed laser melting and rapid thermal annealing of N+-implanted GaAs. Journal of Applied Physics, 2003, 94, 1043-1049.	1.1	48
133	Structural and electronic properties of amorphous and polycrystalline In_2Se_3 films. Journal of Applied Physics, 2003, 94, 2390-2397.	1.1	48
134	Vanadium dioxide nanowire-based microthermometer for quantitative evaluation of electron beam heating. Nature Communications, 2014, 5, 4986.	5.8	48
135	Structural and optical properties of self-assembled InAs/GaAs quantum dots covered by $\text{In}_x\text{Ga}_{1-x}\text{As}$ ($0 \leq x \leq 0.3$). Journal of Applied Physics, 2000, 88, 3392-3395.	1.1	47
136	Synthesis of $\text{In}_x\text{P}_{1-x}$ thin films by N ion implantation. Applied Physics Letters, 2001, 78, 1077-1079.	1.5	46
137	An analytical model of strain isolation for stretchable and flexible electronics. Applied Physics Letters, 2011, 98, .	1.5	45
138	Fermi-level stabilization in the topological insulators Bi_2Se_3 and Bi_2Te_3 . Physical Review B, 2014, 89, .		
139	Ion Write Microthermotics: Programing Thermal Metamaterials at the Microscale. Nano Letters, 2019, 19, 3830-3837.	4.5	45
140	Pressure-induced semiconductor-to-metal phase transition of a charge-ordered indium halide perovskite. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23404-23409.	3.3	45
141	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe_2 . Advanced Functional Materials, 2017, 27, 1601741.	7.8	44
142	Mechanically modulated tunneling resistance in monolayer MoS_2 . Applied Physics Letters, 2013, 103, .	1.5	43
143	Substrate modified thermal stability of mono- and few-layer MoS_2 . Nanoscale, 2018, 10, 3540-3546.	2.8	43
144	Phase change materials in photonic devices. Journal of Applied Physics, 2021, 129, .	1.1	43

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145	Formation of diluted III-V nitride thin films by N ion implantation. Journal of Applied Physics, 2001, 90, 2227-2234.	1.1	42
146	Constant threshold resistivity in the metal-insulator transition of VO_{2-x} . Physical Review B, 2010, 82, .	1.1	42
147	Effects of point defects on thermal and thermoelectric properties of InN. Applied Physics Letters, 2011, 98, .	1.5	42
148	Stable p- and n-type doping of few-layer graphene/graphite. Carbon, 2013, 57, 507-514.	5.4	42
149	Synthesis of Atomically Thin Hexagonal Diamond with Compression. Nano Letters, 2020, 20, 5916-5921.	4.5	42
150	Variable range hopping electric and thermoelectric transport in anisotropic black phosphorus. Applied Physics Letters, 2017, 111, .	1.5	41
151	Band-gap bowing effects in $B_xGa_{1-x}As$ alloys. Journal of Applied Physics, 2003, 93, 2696-2699.	1.1	38
152	Effect of gallium nitride template layer strain on the growth of $In_xGa_{1-x}N/GaN$ multiple quantum well light emitting diodes. Journal of Applied Physics, 2004, 96, 1381-1386.	1.1	38
153	Optical properties of $Mn_{1.56}Co_{0.96}Ni_{0.48}O_4$ films studied by spectroscopic ellipsometry. Applied Physics Letters, 2009, 94, .	1.5	38
154	Sublimation of GeTe Nanowires and Evidence of Its Size Effect Studied by in Situ TEM. Journal of the American Chemical Society, 2009, 131, 14526-14530.	6.6	38
155	Effect of NiO spin orientation on the magnetic anisotropy of the Fe film in epitaxially grown $Fe/NiO/Ag(001)$ and $Fe/NiO/MgO(001)$. Physical Review B, 2010, 81, .	1.1	38
156	Unusually long free carrier lifetime and metal-insulator band offset in vanadium dioxide. Physical Review B, 2012, 85, .	1.1	38
157	Apparent breakdown of Raman selection rule at valley exciton resonances in monolayer MoS_2 . Physical Review B, 2017, 95, .	1.1	38
158	Direct Observation of Nanoscale Peltier and Joule Effects at Metal-Insulator Domain Walls in Vanadium Dioxide Nanobeams. Nano Letters, 2014, 14, 2394-2400.	4.5	37
159	Nanoscale Friction on Confined Water Layers Intercalated between MoS_2 Flakes and Silica. Journal of Physical Chemistry C, 2019, 123, 8827-8835.	1.5	36
160	Directed assembly of nano-scale phase variants in highly strained $BiFeO_3$ thin films. Journal of Applied Physics, 2012, 112, 064102.	1.1	35
161	Band anticrossing in dilute nitrides. Journal of Physics Condensed Matter, 2004, 16, S3355-S3372.	0.7	34
162	Superelastic metal-insulator phase transition in single-crystal VO_{2-x} . Physical Review B, 2009, 80, .	1.1	34

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163	Structural and electrical properties of Mn _{1.56} Co _{0.96} Ni _{0.48} O ₄ NTC thermistor films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 185, 74-78.	1.7	34
164	GaN _{1-x} Bix: Extremely mismatched semiconductor alloys. <i>Applied Physics Letters</i> , 2010, 97, 141919.	1.5	33
165	Si doping of high-Al-mole fraction Al _x Ga _{1-x} N alloys with rf plasma-induced molecular-beam-epitaxy. <i>Applied Physics Letters</i> , 2002, 81, 5192-5194.	1.5	32
166	Band anticrossing in group II-VI highly mismatched alloys: Cd _{1-x} MnyOxTe _{1-x} quaternaries synthesized by O ion implantation. <i>Applied Physics Letters</i> , 2002, 80, 1571-1573.	1.5	31
167	Probing and modulating surface electron accumulation in InN by the electrolyte gated Hall effect. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	31
168	Metal to semiconductor transition in metallic transition metal dichalcogenides. <i>Journal of Applied Physics</i> , 2013, 114, 174307.	1.1	31
169	Pressurizing Field-Effect Transistors of Few-Layer MoS ₂ in a Diamond Anvil Cell. <i>Nano Letters</i> , 2017, 17, 194-199.	4.5	31
170	Growth of Thick InN by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2002, 743, L4.10.1.	0.1	30
171	Renormalization by enforced coupling across the van der Waals gap between MoS ₂ and WS ₂ . <i>ACS Nano</i> , 2017, 11, 2115-2123.	1.1	30
172	Modulating Photoluminescence of Monolayer Molybdenum Disulfide by Metal-Insulator Phase Transition in Active Substrates. <i>Small</i> , 2016, 12, 3976-3984.	5.2	30
173	Nitrogen-induced enhancement of the free electron concentration in sulfur implanted GaN _x As _{1-x} . <i>Applied Physics Letters</i> , 2000, 77, 2858-2860.	1.5	29
174	Four-fold magnetic anisotropy induced by the antiferromagnetic order in FeMn/Co/Cu(001) system. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	29
175	Anomalous Above-Gap Photoexcitations and Optical Signatures of Localized Charge Puddles in Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , 2017, 11, 2115-2123.	7.3	29
176	Dynamic infrared thin-film absorbers with tunable absorption level based on VO ₂ phase transition. <i>Optical Materials Express</i> , 2018, 8, 2151.	1.6	29
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