

Jinfei Wu

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339
papers

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170
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358
ext. papers

34,033
ext. citations

7.5
avg, IF

6.98
L-index

#	Paper	IF	Citations
339	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
338	Ultrafast charge transfer in atomically thin MoS ₂ /WS ₂ heterostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 682-6	28.7	1432
337	Unusual properties of the fundamental band gap of InN. <i>Applied Physics Letters</i> , 2002 , 80, 3967-3969	3.4	1254
336	Band offsets and heterostructures of two-dimensional semiconductors. <i>Applied Physics Letters</i> , 2013 , 102, 012111	3.4	1131
335	Thermally driven crossover from indirect toward direct bandgap in 2D semiconductors: MoSe ₂ versus MoS ₂ . <i>Nano Letters</i> , 2012 , 12, 5576-80	11.5	989
334	An excess of cosmic ray electrons at energies of 300-800 GeV. <i>Nature</i> , 2008 , 456, 362-5	50.4	791
333	Monolayer behaviour in bulk ReS ₂ due to electronic and vibrational decoupling. <i>Nature Communications</i> , 2014 , 5, 3252	17.4	728
332	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged, and free excitons. <i>Scientific Reports</i> , 2013 , 3, 2657	4.9	726
331	When group-III nitrides go infrared: New properties and perspectives. <i>Journal of Applied Physics</i> , 2009 , 106, 011101	2.5	661
330	Printed assemblies of inorganic light-emitting diodes for deformable and semitransparent displays. <i>Science</i> , 2009 , 325, 977-81	33.3	617
329	Broad-range modulation of light emission in two-dimensional semiconductors by molecular physisorption gating. <i>Nano Letters</i> , 2013 , 13, 2831-6	11.5	566
328	Tuning interlayer coupling in large-area heterostructures with CVD-grown MoS ₂ and WS ₂ monolayers. <i>Nano Letters</i> , 2014 , 14, 3185-90	11.5	562
327	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	2.5	503
326	Small band gap bowing in In _{1-x} Ga _x N alloys. <i>Applied Physics Letters</i> , 2002 , 80, 4741-4743	3.4	498
325	Strain engineering and one-dimensional organization of metal-insulator domains in single-crystal vanadium dioxide beams. <i>Nature Nanotechnology</i> , 2009 , 4, 732-7	28.7	480
324	Doping against the native propensity of MoS ₂ : degenerate hole doping by cation substitution. <i>Nano Letters</i> , 2014 , 14, 6976-82	11.5	468
323	Elastic properties of chemical-vapor-deposited monolayer MoS ₂ , WS ₂ , and their bilayer heterostructures. <i>Nano Letters</i> , 2014 , 14, 5097-103	11.5	384

322	Effects of the narrow band gap on the properties of InN. <i>Physical Review B</i> , 2002 , 66,	3-3	346
321	Anomalous Raman spectra and thickness-dependent electronic properties of WSe ₂ . <i>Physical Review B</i> , 2013 , 87,	3-3	341
320	Temperature dependence of the fundamental band gap of InN. <i>Journal of Applied Physics</i> , 2003 , 94, 4457-4460	3-3	337
319	Valence-band anticrossing in mismatched III-V semiconductor alloys. <i>Physical Review B</i> , 2007 , 75,	3-3	310
318	Efficient photovoltaic current generation at ferroelectric domain walls. <i>Physical Review Letters</i> , 2011 , 107, 126805	7-4	309
317	Microstructured elastomeric surfaces with reversible adhesion and examples of their use in deterministic assembly by transfer printing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17095-100	11.5	280
316	Optical properties of single-crystalline ZnO nanowires on m-sapphire. <i>Applied Physics Letters</i> , 2003 , 82, 2023-2025	3-4	262
315	Band anticrossing in highly mismatched III-V semiconductor alloys. <i>Semiconductor Science and Technology</i> , 2002 , 17, 860-869	1.8	262
314	Scalable enhancement of graphene oxide properties by thermally driven phase transformation. <i>Nature Chemistry</i> , 2014 , 6, 151-8	17.6	261
313	Strain-induced self organization of metal-insulator domains in single-crystalline VO ₂ nanobeams. <i>Nano Letters</i> , 2006 , 6, 2313-7	11.5	261
312	Anisotropic in-plane thermal conductivity of black phosphorus nanoribbons at temperatures higher than 100 K. <i>Nature Communications</i> , 2015 , 6, 8573	17.4	249
311	Diluted II-VI oxide semiconductors with multiple band gaps. <i>Physical Review Letters</i> , 2003 , 91, 246403	7-4	219
310	Magnetic properties of MoS ₂ : Existence of ferromagnetism. <i>Applied Physics Letters</i> , 2012 , 101, 123105	3-4	218
309	Structure and electronic properties of InN and In-rich group III-nitride alloys. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, R83-R99	3	211
308	Nature of the fundamental band gap in GaN _x P _{1-x} alloys. <i>Applied Physics Letters</i> , 2000 , 76, 3251-3253	3-4	211
307	Effects of electron concentration on the optical absorption edge of InN. <i>Applied Physics Letters</i> , 2004 , 84, 2805-2807	3-4	210
306	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. <i>Science</i> , 2017 , 355, 371-374	3-3	208
305	Thermal diodes, regulators, and switches: Physical mechanisms and potential applications. <i>Applied Physics Reviews</i> , 2017 , 4, 041304	17.3	193

304	Two-Dimensional Materials for Thermal Management Applications. <i>Joule</i> , 2018 , 2, 442-463	27.8	190
303	Recent progresses on physics and applications of vanadium dioxide. <i>Materials Today</i> , 2018 , 21, 875-896	21.8	187
302	Extended mapping and exploration of the vanadium dioxide stress-temperature phase diagram. <i>Nano Letters</i> , 2010 , 10, 2667-73	11.5	186
301	Monolayer semiconducting transition metal dichalcogenide alloys: Stability and band bowing. <i>Journal of Applied Physics</i> , 2013 , 113, 143703	2.5	175
300	Raman Spectroscopy and Time-Resolved Photoluminescence of BN and BxCyNz Nanotubes. <i>Nano Letters</i> , 2004 , 4, 647-650	11.5	175
299	Mechanics and dynamics of the strain-induced M1-M2 structural phase transition in individual VO ₂ nanowires. <i>Nano Letters</i> , 2011 , 11, 3207-13	11.5	173
298	Visualizing nanoscale excitonic relaxation properties of disordered edges and grain boundaries in monolayer molybdenum disulfide. <i>Nature Communications</i> , 2015 , 6, 7993	17.4	172
297	Fermi-level stabilization energy in group III nitrides. <i>Physical Review B</i> , 2005 , 71,	3.3	172
296	Strain and temperature dependence of the insulating phases of VO ₂ near the metal-insulator transition. <i>Physical Review B</i> , 2012 , 85,	3.3	156
295	Dopant profiling and surface analysis of silicon nanowires using capacitance-voltage measurements. <i>Nature Nanotechnology</i> , 2009 , 4, 311-4	28.7	145
294	Finite element simulations of compositionally graded InGaN solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 478-483	6.4	145
293	Optical properties and electronic structure of InN and In-rich group III-nitride alloys. <i>Journal of Crystal Growth</i> , 2004 , 269, 119-127	1.6	145
292	Third generation photovoltaics. <i>Laser and Photonics Reviews</i> , 2009 , 3, 394-405	8.3	142
291	Band gaps of InN and group III nitride alloys. <i>Superlattices and Microstructures</i> , 2003 , 34, 63-75	2.8	137
290	Large resistivity modulation in mixed-phase metallic systems. <i>Nature Communications</i> , 2015 , 6, 5959	17.4	132
289	Decoupling of structural and electronic phase transitions in VO ₂ . <i>Physical Review Letters</i> , 2012 , 109, 166406	4.06	131
288	Interlayer electron-phonon coupling in WSe ₂ /hBN heterostructures. <i>Nature Physics</i> , 2017 , 13, 127-131	16.2	129
287	Giant-amplitude, high-work density microactuators with phase transition activated nanolayer bimorphs. <i>Nano Letters</i> , 2012 , 12, 6302-8	11.5	124

286	Two-dimensional semiconductor alloys: Monolayer Mo _{1-x} W _x Se ₂ . <i>Applied Physics Letters</i> , 2014 , 104, 012104	11.5	122
285	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. <i>Nano Letters</i> , 2016 , 16, 3221-9	11.5	119
284	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , 2014 , 89,	3.3	118
283	Current-driven phase oscillation and domain-wall propagation in W _x V _{1-x} O ₂ nanobeams. <i>Nano Letters</i> , 2007 , 7, 363-6	11.5	118
282	Germanium telluride nanowires and nanohelices with memory-switching behavior. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8148-9	16.4	117
281	Thermal tuning of infrared resonant absorbers based on hybrid gold-VO ₂ nanostructures. <i>Applied Physics Letters</i> , 2015 , 106, 161104	3.4	115
280	Strain effects in low-dimensional transition metal oxides. <i>Materials Science and Engineering Reports</i> , 2011 , 71, 35-52	30.9	115
279	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1800754	24	109
278	Gate coupling and charge distribution in nanowire field effect transistors. <i>Nano Letters</i> , 2007 , 7, 2778-83	11.5	106
277	Comprehensive study of the metal-insulator transition in pulsed laser deposited epitaxial VO ₂ thin films. <i>Journal of Applied Physics</i> , 2013 , 113, 043707	2.5	105
276	Temperature-gated thermal rectifier for active heat flow control. <i>Nano Letters</i> , 2014 , 14, 4867-72	11.5	104
275	Ferroelectrically Gated Atomically Thin Transition-Metal Dichalcogenides as Nonvolatile Memory. <i>Advanced Materials</i> , 2016 , 28, 2923-30	24	103
274	Direct measurement of rotatable and frozen CoO spins in exchange bias system of CoO/Fe/Ag(001). <i>Physical Review Letters</i> , 2010 , 104, 217204	7.4	97
273	Ultra-long, free-standing, single-crystalline vanadium dioxide micro/nanowires grown by simple thermal evaporation. <i>Applied Physics Letters</i> , 2012 , 100, 103111	3.4	93
272	Work function engineering of single layer graphene by irradiation-induced defects. <i>Applied Physics Letters</i> , 2013 , 103, 171604	3.4	92
271	Electronic structure, spin-orbit coupling, and interlayer interaction in bulk MoS ₂ and WS ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	92
270	Universal bandgap bowing in group-III nitride alloys. <i>Solid State Communications</i> , 2003 , 127, 411-414	1.6	92
269	Probing local strain at MX(2)-metal boundaries with surface plasmon-enhanced Raman scattering. <i>Nano Letters</i> , 2014 , 14, 5329-34	11.5	87

268	Enhancing the thermoelectric power factor with highly mismatched isoelectronic doping. <i>Physical Review Letters</i> , 2010 , 104, 016602	7.4	87
267	Reconfiguring crystal and electronic structures of MoS by substitutional doping. <i>Nature Communications</i> , 2018 , 9, 199	17.4	85
266	Axially engineered metal-insulator phase transition by graded doping VO ₂ nanowires. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4850-5	16.4	84
265	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	3.4	80
264	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,	3.3	80
263	Simultaneous Enhancement of Electrical Conductivity and Thermopower of Bi ₂ Te ₃ by Multifunctionality of Native Defects. <i>Advanced Materials</i> , 2015 , 27, 3681-6	24	79
262	Large kinetic asymmetry in the metal-insulator transition nucleated at localized and extended defects. <i>Physical Review B</i> , 2011 , 83,	3.3	78
261	Anomalous independence of interface superconductivity from carrier density. <i>Nature Materials</i> , 2013 , 12, 877-81	27	77
260	Valence band hybridization in N-rich GaN _{1-x} As _x alloys. <i>Physical Review B</i> , 2004 , 70,	3.3	76
259	Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction. <i>Advanced Materials</i> , 2016 , 28, 341-6	24	75
258	3D LITHOGRAPHY. Atomic gold-enabled three-dimensional lithography for silicon mesostructures. <i>Science</i> , 2015 , 348, 1451-5	33.3	73
257	Intrinsic optical properties of vanadium dioxide near the insulator-metal transition. <i>Nano Letters</i> , 2011 , 11, 466-70	11.5	72
256	MoS ₂ Heterojunctions by Thickness Modulation. <i>Scientific Reports</i> , 2015 , 5, 10990	4.9	71
255	Intensity tunable infrared broadband absorbers based on VO ₂ phase transition using planar layered thin films. <i>Scientific Reports</i> , 2015 , 5, 13384	4.9	71
254	Thermoelectric effect across the metal-insulator domain walls in VO ₂ microbeams. <i>Nano Letters</i> , 2009 , 9, 4001-6	11.5	71
253	Effect of oxygen on the electronic band structure in ZnO _x Se _{1-x} alloys. <i>Applied Physics Letters</i> , 2003 , 83, 299-301	3.4	70
252	Colossal thermal-mechanical actuation via phase transition in single-crystal VO ₂ microcantilevers. <i>Journal of Applied Physics</i> , 2010 , 108, 083538	2.5	67
251	Field-effect modulation of conductance in VO ₂ nanobeam transistors with HfO ₂ as the gate dielectric. <i>Applied Physics Letters</i> , 2011 , 99, 062114	3.4	67

250	Direct observation of imprinted antiferromagnetic vortex states in CoO/Fe/Ag(001) discs. <i>Nature Physics</i> , 2011 , 7, 303-306	16.2	66
249	Magnetic stripe melting at the spin reorientation transition in Fe _{1-x} Ni _x Cu(001). <i>Physical Review B</i> , 2005 , 71,	3.3	66
248	Powerful, multifunctional torsional micromuscles activated by phase transition. <i>Advanced Materials</i> , 2014 , 26, 1746-50	24	65
247	Pressure-induced phase transitions and metallization in VO ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	63
246	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	3.4	63
245	Band anticrossing in GaP _{1-x} N _x alloys. <i>Physical Review B</i> , 2002 , 65,	3.3	62
244	Origin of the large band-gap bowing in highly mismatched semiconductor alloys. <i>Physical Review B</i> , 2003 , 67,	3.3	61
243	Band structure of highly mismatched semiconductor alloys: Coherent potential approximation. <i>Physical Review B</i> , 2002 , 65,	3.3	61
242	Nitrogen-induced increase of the maximum electron concentration in group III-N-V alloys. <i>Physical Review B</i> , 2000 , 61, R13337-R13340	3.3	60
241	Thermal redistribution of photocarriers between bimodal quantum dots. <i>Journal of Applied Physics</i> , 2001 , 90, 1973-1976	2.5	60
240	A Lithography-Free and Field-Programmable Photonic Metacanvas. <i>Advanced Materials</i> , 2018 , 30, 1703878	2.5	60
239	Effects of quantum confinement on the doping limit of semiconductor nanowires. <i>Nano Letters</i> , 2007 , 7, 1186-90	11.5	59
238	Pressure dependence of the fundamental band-gap energy of CdSe. <i>Applied Physics Letters</i> , 2004 , 84, 67-69	3.4	58
237	Thermodynamics of strained vanadium dioxide single crystals. <i>Journal of Applied Physics</i> , 2010 , 108, 083517	11.7	57
236	Effects of surface states on electrical characteristics of InN and In _{1-x} Ga _x N. <i>Physical Review B</i> , 2007 , 76,	3.3	57
235	Performance limits of microactuation with vanadium dioxide as a solid engine. <i>ACS Nano</i> , 2013 , 7, 2266-2277	11.7	55
234	Heat transfer across the interface between nanoscale solids and gas. <i>ACS Nano</i> , 2011 , 5, 10102-7	16.7	55
233	Magnetic bubble domain phase at the spin reorientation transition of ultrathin Fe/Ni/Cu(001) film. <i>Physical Review Letters</i> , 2007 , 98, 207205	7.4	55

232	Synthesis and optical properties of II-O-VI highly mismatched alloys. <i>Journal of Applied Physics</i> , 2004 , 95, 6232-6238	2.5	55
231	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , 2013 , 5, 4669-72	7.7	54
230	Mechanical properties of two-dimensional materials and heterostructures. <i>Journal of Materials Research</i> , 2016 , 31, 832-844	2.5	53
229	Gate-dependent pseudospin mixing in graphene/boron nitride moiré superlattices. <i>Nature Physics</i> , 2014 , 10, 743-747	16.2	53
228	Mg-doped InN and InGaN [Photoluminescence, capacitance]oltage and thermopower measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 873-877	1.3	53
227	Determination of the minority carrier diffusion length in compositionally graded Cu(In,Ga)Se ₂ solar cells using electron beam induced current. <i>Applied Physics Letters</i> , 2010 , 96, 022104	3.4	52
226	High quality InN/GaN heterostructures grown by migration enhanced metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2004 , 84, 1892-1894	3.4	52
225	Mutual passivation of electrically active and isovalent impurities. <i>Nature Materials</i> , 2002 , 1, 185-9	27	51
224	Synthesis and gas sensitivity of In-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2003 , 14, 521-526	2.1	50
223	Dense electron system from gate-controlled surface metal-insulator transition. <i>Nano Letters</i> , 2012 , 12, 6272-7	11.5	48
222	Thermal camouflaging metamaterials. <i>Materials Today</i> , 2021 , 45, 120-141	21.8	48
221	Perspectives on Thermoelectricity in Layered and 2D Materials. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800248	6.4	47
220	Structure-Dependent Hydrostatic Deformation Potentials of Individual Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2004 , 93,	7.4	46
219	Electrothermal dynamics of semiconductor nanowires under local carrier modulation. <i>Nano Letters</i> , 2011 , 11, 3809-15	11.5	45
218	Pressure-Temperature Phase Diagram of Vanadium Dioxide. <i>Nano Letters</i> , 2017 , 17, 2512-2516	11.5	43
217	Synthesis of Ga _x As _{1-x} thin films by pulsed laser melting and rapid thermal annealing of N ⁺ -implanted GaAs. <i>Journal of Applied Physics</i> , 2003 , 94, 1043-1049	2.5	43
216	Temperature-adaptive radiative coating for all-season household thermal regulation.. <i>Science</i> , 2021 , 374, 1504-1509	33.3	43
215	Bandgap Restructuring of the Layered Semiconductor Gallium Telluride in Air. <i>Advanced Materials</i> , 2016 , 28, 6465-70	24	42

214	Suppression of thermal conductivity in In _x Ga _{1-x} N alloys by nanometer-scale disorder. <i>Applied Physics Letters</i> , 2013 , 102, 121906	3.4	42
213	Structural and electronic properties of amorphous and polycrystalline In ₂ Se ₃ films. <i>Journal of Applied Physics</i> , 2003 , 94, 2390-2397	2.5	42
212	Constant threshold resistivity in the metal-insulator transition of VO ₂ . <i>Physical Review B</i> , 2010 , 82,	3.3	40
211	Fermi-level stabilization in the topological insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ : Origin of the surface electron gas. <i>Physical Review B</i> , 2014 , 89,	3.3	39
210	Vanadium dioxide nanowire-based microthermometer for quantitative evaluation of electron beam heating. <i>Nature Communications</i> , 2014 , 5, 4986	17.4	39
209	Synthesis of InN _x P _{1-x} thin films by N ion implantation. <i>Applied Physics Letters</i> , 2001 , 78, 1077-1079	3.4	39
208	Structural and optical properties of self-assembled InAs/GaAs quantum dots covered by In _x Ga _{1-x} As (0 ≤ x ≤ 0.3). <i>Journal of Applied Physics</i> , 2000 , 88, 3392-3395	2.5	39
207	An analytical model of strain isolation for stretchable and flexible electronics. <i>Applied Physics Letters</i> , 2011 , 98, 061902	3.4	38
206	Formation of diluted III-V nitride thin films by N ion implantation. <i>Journal of Applied Physics</i> , 2001 , 90, 2227-2234	2.5	37
205	Mechanically modulated tunneling resistance in monolayer MoS ₂ . <i>Applied Physics Letters</i> , 2013 , 103, 183105	3.4	36
204	Effects of point defects on thermal and thermoelectric properties of InN. <i>Applied Physics Letters</i> , 2011 , 98, 012108	3.4	36
203	Unusually long free carrier lifetime and metal-insulator band offset in vanadium dioxide. <i>Physical Review B</i> , 2012 , 85,	3.3	36
202	Band-gap bowing effects in B _x Ga _{1-x} As alloys. <i>Journal of Applied Physics</i> , 2003 , 93, 2696-2699	2.5	35
201	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. <i>Nano Letters</i> , 2017 , 17, 4982-4988	11.5	34
200	Optical properties of Mn _{1.56} Co _{0.96} Ni _{0.48} O ₄ films studied by spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 2009 , 94, 011106	3.4	34
199	Superelastic metal-insulator phase transition in single-crystal VO ₂ nanobeams. <i>Physical Review B</i> , 2009 , 80,	3.3	33
198	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	11.5	32
197	Substrate modified thermal stability of mono- and few-layer MoS. <i>Nanoscale</i> , 2018 , 10, 3540-3546	7.7	32

196	Stable p- and n-type doping of few-layer graphene/graphite. <i>Carbon</i> , 2013 , 57, 507-514	10.4	32
195	Directed assembly of nano-scale phase variants in highly strained BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 064102	2.5	32
194	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe ₂ . <i>Advanced Functional Materials</i> , 2017 , 27, 1601741	15.6	31
193	GaN _{1-x} Bix: Extremely mismatched semiconductor alloys. <i>Applied Physics Letters</i> , 2010 , 97, 141919	3.4	31
192	Effect of gallium nitride template layer strain on the growth of In _x Ga _{1-x} N/GaN multiple quantum well light emitting diodes. <i>Journal of Applied Physics</i> , 2004 , 96, 1381-1386	2.5	31
191	Sublimation of GeTe nanowires and evidence of its size effect studied by in situ TEM. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14526-30	16.4	30
190	Growth of Thick InN by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L4.10.1		30
189	Band anticrossing in group II-Ox ^{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	3.4	30
188	Probing and modulating surface electron accumulation in InN by the electrolyte gated Hall effect. <i>Applied Physics Letters</i> , 2008 , 93, 262105	3.4	29
187	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	3.4	29
186	Variable range hopping electric and thermoelectric transport in anisotropic black phosphorus. <i>Applied Physics Letters</i> , 2017 , 111, 102101	3.4	28
185	Direct observation of nanoscale Peltier and Joule effects at metal-insulator domain walls in vanadium dioxide nanobeams. <i>Nano Letters</i> , 2014 , 14, 2394-400	11.5	27
184	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). <i>Physical Review B</i> , 2010 , 81,	3.3	27
183	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	3.4	27
182	A Thermal Radiation Modulation Platform by Emissivity Engineering with Graded Metal-Insulator Transition. <i>Advanced Materials</i> , 2020 , 32, e1907071	24	27
181	Apparent breakdown of Raman selection rule at valley exciton resonances in monolayer MoS ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	26
180	Band anticrossing in dilute nitrides. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S3355-S3372	1.8	26
179	Anomalous Above-Gap Photoexcitations and Optical Signatures of Localized Charge Puddles in Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , 2017 , 11, 2115-2123	16.7	25

178	Pressurizing Field-Effect Transistors of Few-Layer MoS in a Diamond Anvil Cell. <i>Nano Letters</i> , 2017 , 17, 194-199	11.5	25
177	Four-fold magnetic anisotropy induced by the antiferromagnetic order in FeMn/Co/Cu(001) system. <i>Journal of Applied Physics</i> , 2010 , 108, 073905	2.5	25
176	Pressure-induced semiconductor-to-metal phase transition of a charge-ordered indium halide perovskite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23404-23409	11.5	25
175	Ion Write Microthermotics: Programing Thermal Metamaterials at the Microscale. <i>Nano Letters</i> , 2019 , 19, 3830-3837	11.5	24
174	Metal to semiconductor transition in metallic transition metal dichalcogenides. <i>Journal of Applied Physics</i> , 2013 , 114, 174307	2.5	24
173	Modulating Photoluminescence of Monolayer Molybdenum Disulfide by Metal-Insulator Phase Transition in Active Substrates. <i>Small</i> , 2016 , 12, 3976-84	11	24
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