

W Walukiewicz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

254 papers	16,543 citations	62 h-index	124 g-index
257 ext. papers	17,599 ext. citations	3.4 avg, IF	6.1 L-index

#	Paper	IF	Citations
254	Conduction band modifications by d states in vanadium doped CdO. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153567	5.7	4
253	Effects of the host conduction band energy on the electronic band structure of ZnCdTeO dilute oxide alloys. <i>Journal of Applied Physics</i> , 2019 , 126, 083106	2.5	2
252	ZnO δ Tex highly mismatched alloys beyond the dilute alloy limit: Synthesis and electronic band structure. <i>Journal of Applied Physics</i> , 2019 , 125, 155702	2.5	7
251	Photoreflectance and photoinduced microwave reflectance studies of surface band bending in Mg-doped InN. <i>Journal of Applied Physics</i> , 2019 , 126, 045712	2.5	3
250	Growth of GaP δ & δ AsyNx on Si substrates by chemical beam epitaxy. <i>Journal of Applied Physics</i> , 2019 , 126, 105704	2.5	1
249	THz transient photoconductivity of the III δ dilute nitride GaP y As δ N x. <i>Semiconductor Science and Technology</i> , 2018 , 33, 125009	1.8	1
248	Photoreflectance studies of optical transitions in GaNPAs intermediate band solar cell absorbers. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 188, 99-104	6.4	4
247	Carrier Lifetimes in a III δ Intermediate-Band Semiconductor. <i>Physical Review Applied</i> , 2017 , 7,	4.3	5
246	Multicolor emission from intermediate band semiconductor ZnOSe. <i>Scientific Reports</i> , 2017 , 7, 44214	4.9	11
245	Effects of band anticrossing on the temperature dependence of the band gap of ZnSe δ Oxalloys. <i>Semiconductor Science and Technology</i> , 2017 , 32, 015005	1.8	5
244	Nitrogen-related intermediate band in P-rich GaNPAs alloys. <i>Scientific Reports</i> , 2017 , 7, 15703	4.9	11
243	Highly mismatched GaN δ Sbxalloys: synthesis, structure and electronic properties. <i>Semiconductor Science and Technology</i> , 2016 , 31, 083001	1.8	13
242	Undoped p-type GaN δ Sbx alloys: Effects of annealing. <i>Applied Physics Letters</i> , 2016 , 109, 252102	3.4	5
241	Effects of a semiconductor matrix on the band anticrossing in dilute group II-VI oxides. <i>Semiconductor Science and Technology</i> , 2015 , 30, 085018	1.8	14
240	InGaN pn-junctions grown by PA-MBE: Material characterization and fabrication of nanocolumn electroluminescent devices. <i>Journal of Crystal Growth</i> , 2015 , 425, 393-397	1.6	7
239	Effects of native defects on properties of low temperature grown, non-stoichiometric gallium nitride. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 385101	3	5
238	Temperature evolution of carrier dynamics in GaNxPyAs δ alloys. <i>Journal of Applied Physics</i> , 2015 , 117, 175702	2.5	15

237	Effects of the d-donor level of vanadium on the properties of Zn _{1-x} V _x O films. <i>Applied Physics Letters</i> , 2015 , 106, 182101	3-4	9
236	Growth and characterization of highly mismatched Zn _{1-x} Cd _x Te _{1-y} O _y alloys for intermediate band solar cells 2015 ,		1
235	Evidence of extreme type-III band offset at buried n-type CdO/p-type SnTe interfaces. <i>Physical Review B</i> , 2015 , 91,	3-3	7
234	Growth and characterization of ZnO _{1-x} S _x highly mismatched alloys over the entire composition. <i>Journal of Applied Physics</i> , 2015 , 118, 215702	2-5	36
233	Electronic band structure of highly mismatched GaN _{1-x} Sb _x alloys in a broad composition range. <i>Applied Physics Letters</i> , 2015 , 107, 142104	3-4	23
232	Fabrication and characterization of multiband solar cells based on highly mismatched alloys. <i>Journal of Physics: Conference Series</i> , 2015 , 647, 012067	0-3	
231	Electronic band structure of ZnO-rich highly mismatched ZnO _{1-x} Te _x alloys. <i>Applied Physics Letters</i> , 2015 , 106, 092101	3-4	24
230	Modeling of the atomic structure and electronic properties of amorphous GaN _{1-x} As _x . <i>Computational Materials Science</i> , 2014 , 82, 100-106	3-2	12
229	Growth and characterization of highly mismatched GaN _{1-x} Sb _x alloys. <i>Journal of Applied Physics</i> , 2014 , 116, 123704	2-5	18
228	Electronic Band Structure of Ga _x N _{1-x} PyAs _{1-y} Highly Mismatched Alloys: Suitability for Intermediate-Band Solar Cells. <i>Physical Review Applied</i> , 2014 , 1,	4-3	60
227	Surface photovoltage and modulation spectroscopy of E ₁ and E ₁ ⁺ transitions in GaNAs layers. <i>Thin Solid Films</i> , 2014 , 567, 101-104	2-2	14
226	Composition and optical properties of dilute-Sb GaN _{1-x} Sb _x highly mismatched alloys grown by MBE. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 465102	3	9
225	GaNAsP: An intermediate band semiconductor grown by gas-source molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013 , 102, 112105	3-4	32
224	Crystal structure and properties of Cd _x Zn _{1-x} O alloys across the full composition range. <i>Applied Physics Letters</i> , 2013 , 102, 232103	3-4	52
223	Highly mismatched N-rich GaN _{1-x} Sb _x films grown by low temperature molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013 , 102, 102104	3-4	24
222	Local structure of amorphous GaN _{1-x} As _x semiconductor alloys across the composition range. <i>Journal of Applied Physics</i> , 2013 , 113, 243505	2-5	6
221	P-type InGa _N across the entire alloy composition range. <i>Applied Physics Letters</i> , 2013 , 102, 102111	3-4	11
220	Temperature dependence of photoluminescence from InNAsSb layers: The role of localized and free carrier emission in determination of temperature dependence of energy gap. <i>Applied Physics Letters</i> , 2013 , 102, 122109	3-4	16

219	Correlations between the band structure, activation energies of electron traps, and photoluminescence in n-type GaNAs layers. <i>Applied Physics Letters</i> , 2012 , 101, 082109	3.4	18
218	Controlling the Curie temperature in (Ga,Mn)As through location of the Fermi level within the impurity band. <i>Nature Materials</i> , 2012 , 11, 444-9	2.7	148
217	Temperature dependence of E0 and E0 + δ O transitions in In _{0.53} Ga _{0.47} BixAs _{1-x} alloys studied by photoreflectance. <i>Journal of Applied Physics</i> , 2012 , 112, 113508	2.5	14
216	Engineering the electronic band structure for multiband solar cells. <i>Physical Review Letters</i> , 2011 , 106, 028701	7.4	225
215	Thermal stability of amorphous GaN _{1-x} As _x alloys. <i>Applied Physics Letters</i> , 2011 , 98, 161902	3.4	7
214	Electronic structure of CdO studied by soft X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011 , 184, 249-253	1.7	22
213	Mg doped InN and confirmation of free holes in InN. <i>Applied Physics Letters</i> , 2011 , 98, 042104	3.4	41
212	Doping of GaN _{1-x} As _x with high As content. <i>Journal of Applied Physics</i> , 2011 , 110, 093702	2.5	4
211	Effects of point defects on thermal and thermoelectric properties of InN. <i>Applied Physics Letters</i> , 2011 , 98, 012108	3.4	36
210	GaN _{1-x} Bix: Extremely mismatched semiconductor alloys. <i>Applied Physics Letters</i> , 2010 , 97, 141919	3.4	31
209	Fermi level stabilization energy in cadmium oxide. <i>Journal of Applied Physics</i> , 2010 , 107, 113706	2.5	54
208	Full multiple scattering analysis of XANES at the Cd L3 and O K edges in CdO films combined with a soft-x-ray emission investigation. <i>Physical Review B</i> , 2010 , 82,	3.3	36
207	Electronic structure of Ga _{1-x} MnxAs analyzed according to hole-concentration-dependent measurements. <i>Physical Review B</i> , 2010 , 81,	3.3	43
206	Hole transport and photoluminescence in Mg-doped InN. <i>Journal of Applied Physics</i> , 2010 , 107, 113712	2.5	62
205	Low gap amorphous GaN _{1-x} As _x alloys grown on glass substrate. <i>Applied Physics Letters</i> , 2010 , 97, 101906	3.4	16
204	Finite element simulations of compositionally graded InGaN solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 478-483	6.4	145
203	High quality In _x Ga _{1-x} N thin films with x > 0.2 grown on silicon. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1747-1749	1.3	13
202	Highly mismatched crystalline and amorphous GaN _{1-x} As _x alloys in the whole composition range. <i>Journal of Applied Physics</i> , 2009 , 106, 103709	2.5	54

201	Numerical simulations of novel InGaN solar cells 2009 ,		2
200	MBE GROWTH AND CHARACTERIZATION OF Mg-DOPED III-NITRIDES ON SAPPHIRE. <i>Selected Topics in Electornics and Systems</i> , 2009 , 113-119	0	
199	Properties of native point defects in In _{1-x} Al _x N alloys. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 0954063		2
198	Determining surface Fermi level pinning position of InN nanowires using electrolyte gating. <i>Applied Physics Letters</i> , 2009 , 95, 173114	3.4	16
197	MBE GROWTH AND CHARACTERIZATION OF Mg-DOPED III-NITRIDES ON SAPPHIRE. <i>International Journal of High Speed Electronics and Systems</i> , 2009 , 19, 113-119	0.5	
196	Electrical and electrothermal transport in InN: The roles of defects. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4862-4865	2.8	10
195	Temperature dependence of the band gap of ZnSe _{1-x} O _x . <i>Applied Physics Letters</i> , 2009 , 95, 151907	3.4	31
194	Electronic Properties of InN and InGaN 2009 , 377-417		
193	Chapter 3 Fermi Level Effects on Mn Incorporation in III-Mn-V Ferromagnetic Semiconductors. <i>Semiconductors and Semimetals</i> , 2008 , 82, 89-133	0.6	1
192	Electronic Band Structure of Highly Mismatched Semiconductor Alloys 2008 , 65-89		3
191	Formation of Mn-derived impurity band in III-Mn-V alloys by valence band anticrossing. <i>Physical Review B</i> , 2008 , 78,	3.3	41
190	Modeling of InGaN/Si tandem solar cells. <i>Journal of Applied Physics</i> , 2008 , 104, 024507	2.5	126
189	Band gap bowing parameter of In _{1-x} Al _x N. <i>Journal of Applied Physics</i> , 2008 , 104, 123501	2.5	62
188	Composition dependence of the hole mobility in GaSb _x As _{1-x} . <i>Applied Physics Letters</i> , 2008 , 92, 162105	3.4	3
187	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
186	Properties of Ga _{1-x} Mn _x As with high x (>0.1). <i>Journal of Applied Physics</i> , 2008 , 103, 07D136	2.5	19
185	Effects of donor doping on Ga _{1-x} Mn _x As. <i>Applied Physics Letters</i> , 2008 , 93, 262505	3.4	16
184	Band anticrossing in highly mismatched Sn _x Ge _{1-x} semiconducting alloys. <i>Physical Review B</i> , 2008 , 77,	3.3	59

183	Optimum nitride concentration in multiband III-NV alloys for high efficiency ideal solar cells. <i>Applied Physics Letters</i> , 2008 , 93, 174109	3.4	17
182	Characterization of MG-doped InGaN and InAlN alloys grown by MBE for solar applications. <i>Conference Record of the IEEE Photovoltaic Specialists Conference</i> , 2008 ,		2
181	Metal-insulator transition by isovalent anion substitution in Ga _{1-x} Mn _x As: implications to ferromagnetism. <i>Physical Review Letters</i> , 2008 , 101, 087203	7.4	32
180	Low-temperature grown compositionally graded InGaN films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1866-1869		16
179	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
178	Energetic Beam Synthesis of Dilute Nitrides and Related Alloys 2008 , 1-34		
177	Effects of quantum confinement on the doping limit of semiconductor nanowires. <i>Nano Letters</i> , 2007 , 7, 1186-90	11.5	59
176	TEM studies of as-grown, irradiated and annealed InN films. <i>Physica B: Condensed Matter</i> , 2007 , 401-402, 646-649	2.8	7
175	p-type InN and In-rich InGaN. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1820-1824	1.3	21
174	Synthesis of highly mismatched alloys using ion implantation and pulsed laser melting. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 261, 1150-1154	1.2	9
173	Towards identification of localized donor states in InN. <i>Semiconductor Science and Technology</i> , 2007 , 22, 1161-1164	1.8	3
172	High electron mobility InN. <i>Applied Physics Letters</i> , 2007 , 90, 162103	3.4	29
171	Compensating point defects in He ⁺ 4-irradiated InN. <i>Physical Review B</i> , 2007 , 75,	3.3	41
170	Electron mobility in InN and III-N alloys. <i>Journal of Applied Physics</i> , 2007 , 102, 073705	2.5	46
169	Valence-band anticrossing in mismatched III-V semiconductor alloys. <i>Physical Review B</i> , 2007 , 75,	3.3	310
168	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
167	Native-defect-controlled n-type conductivity in InN. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 436-439	2.8	24
166	Defects and Self-Compensation in Semiconductors. <i>Springer Series in Materials Science</i> , 2006 , 35-54	0.9	4

165	Photoluminescence of energetic particle-irradiated In _x Ga _{1-x} N alloys. <i>Applied Physics Letters</i> , 2006 , 88, 151101	3.4	12
164	Optical bleaching effect in InN epitaxial layers. <i>Applied Physics Letters</i> , 2006 , 88, 191109	3.4	20
163	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
162	Evidence for p-type doping of InN. <i>Physical Review Letters</i> , 2006 , 96, 125505	7.4	176
161	Multiband GaNAsP quaternary alloys. <i>Applied Physics Letters</i> , 2006 , 88, 092110	3.4	112
160	Dopants and defects in InN and InGaN alloys. <i>Journal of Crystal Growth</i> , 2006 , 288, 278-282	1.6	12
159	Native defects in In _x Ga _{1-x} N alloys. <i>Physica B: Condensed Matter</i> , 2006 , 376-377, 432-435	2.8	8
158	Pressure-dependent photoluminescence study of ZnO nanowires. <i>Applied Physics Letters</i> , 2005 , 86, 15313.7	3.4	80
157	Strain-engineered ferromagnetic In _{1-x} Mn _x As films with in-plane easy axis. <i>Applied Physics Letters</i> , 2005 , 86, 112512	3.4	20
156	Fermi-level stabilization energy in group III nitrides. <i>Physical Review B</i> , 2005 , 71,	3.3	172
155	Effect of film thickness on the incorporation of Mn interstitials in Ga _{1-x} Mn _x As. <i>Applied Physics Letters</i> , 2005 , 86, 042102	3.4	27
154	Band Anticrossing and Related Electronic Structure in III _N -V Alloys 2005 , 325-359		5
153	Electron Transport Properties of InN. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 91		5
152	Effect of native defects on optical properties of In _x Ga _{1-x} N alloys. <i>Applied Physics Letters</i> , 2005 , 87, 161905	3.4	18
151	On the crystalline structure, stoichiometry and band gap of InN thin films. <i>Applied Physics Letters</i> , 2005 , 86, 071910	3.4	97
150	Multiphonon resonance Raman scattering in In _x Ga _{1-x} N. <i>Physical Review B</i> , 2005 , 72,	3.3	21
149	Group III-nitride Materials for High Efficiency Photoelectrochemical Cells. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 884, 1		3
148	Electronic and Optical Properties of Energetic Particle-Irradiated In-rich InGa _N . <i>Materials Research Society Symposia Proceedings</i> , 2005 , 864, 7101		1

147	Highly Mismatched Alloys for Intermediate Band Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 865, 571		7
146	Mutual Passivation in Dilute GaN _x As _{1-x} Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 864, 811		
145	Fermi level effects on Mn incorporation in modulation-doped ferromagnetic III _{1-x} MnxV heterostructures. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5499-S5508	1.8	7
144	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
143	Direct evidence of the Fermi-energy-dependent formation of Mn interstitials in modulation-doped Ga _{1-x} Al _y As/Ga _{1-x} MnxAs/Ga _{1-x} Al _y As heterostructures. <i>Applied Physics Letters</i> , 2004 , 84, 4325-4327	3-4	16
142	Synthesis and optical properties of II-O-VI highly mismatched alloys. <i>Journal of Applied Physics</i> , 2004 , 95, 6232-6238	2.5	55
141	Effects of pressure on the band structure of highly mismatched Zn _{1-x} MnyOxTe _{1-x} alloys. <i>Applied Physics Letters</i> , 2004 , 84, 924-926	3-4	10
140	Effects of electron concentration on the optical absorption edge of InN. <i>Applied Physics Letters</i> , 2004 , 84, 2805-2807	3-4	210
139	Compositional Ordering in In _x Ga _{1-x} N and its influence on optical properties. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 831, 126		
138	Lattice location of Mn and fundamental Curie temperature limit in ferromagnetic Ga _{1-x} MnxAs. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 219-220, 636-641	1.2	5
137	Synthesis and properties of highly mismatched II _{IV} alloys. <i>IEE Proceedings: Optoelectronics</i> , 2004 , 151, 452-459		3
136	Mutual passivation effects in highly mismatched group III _{IV} alloys. <i>IEE Proceedings: Optoelectronics</i> , 2004 , 151, 460-464		5
135	Diluted ZnMnTe oxide: a multi-band semiconductor for high efficiency solar cells. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 660-663	1.3	22
134	Oxygen induced band-gap reduction in ZnOxSe _{1-x} alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 603-606	1.3	6
133	Effects of hydrostatic pressure on optical properties of InN and In-rich group III-nitride alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 3107-3112	1.3	5
132	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
131	Electronic effects determining the formation of ferromagnetic III _{1-x} MnxV alloys during epitaxial growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 25, 171-180	3	25
130	Valence band hybridization in N-rich GaN _{1-x} As _x alloys. <i>Physical Review B</i> , 2004 , 70,	3.3	76

129	Band anticrossing in dilute nitrides. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S3355-S3372	1.8	26
128	Diluted II-VI oxide semiconductors with multiple band gaps. <i>Physical Review Letters</i> , 2003 , 91, 246403	7.4	219
127	Band gaps of InN and group III nitride alloys. <i>Superlattices and Microstructures</i> , 2003 , 34, 63-75	2.8	137
126	Mutual passivation of group IV donors and isovalent nitrogen in diluted GaN _x As _{1-x} alloys. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 389-393	2.8	3
125	Universal bandgap bowing in group-III nitride alloys. <i>Solid State Communications</i> , 2003 , 127, 411-414	1.6	92
124	Temperature dependence of the fundamental band gap of InN. <i>Journal of Applied Physics</i> , 2003 , 94, 4457-4460	7.3	337
123	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
122	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
121	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
120	Composition dependence of the hydrostatic pressure coefficients of the bandgap of ZnSe _{1-x} Te _x alloys. <i>Physical Review B</i> , 2003 , 68,	3.3	16
119	Mutual passivation effects in Si-doped diluted In _y Ga _{1-y} As _{1-x} N _x alloys. <i>Physical Review B</i> , 2003 , 68,	3.3	14
118	Origin of the large band-gap bowing in highly mismatched semiconductor alloys. <i>Physical Review B</i> , 2003 , 67,	3.3	61
117	Mutual passivation of group IV donors and nitrogen in diluted GaN _x As _{1-x} alloys. <i>Applied Physics Letters</i> , 2003 , 83, 2844-2846	3.4	16
116	Pressure Dependence of Optical Transitions in In-rich Group III-Nitride Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 798, 301		
115	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
114	Enhancement of Curie temperature in Ga _{1-x} Mn _x As/Ga _{1-y} Al _y As ferromagnetic heterostructures by Be modulation doping. <i>Applied Physics Letters</i> , 2003 , 83, 4220-4222	3.4	67
113	Synthesis of GaN _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
112	Curie temperature limit in ferromagnetic Ga _{1-x} Mn _x As. <i>Physical Review B</i> , 2003 , 68,	3.3	83

111	Band anticrossing in highly mismatched group II-VI semiconductor alloys. <i>Journal of Electronic Materials</i> , 2002 , 31, 754-758	1.9	6
110	Mutual passivation of electrically active and isovalent impurities. <i>Nature Materials</i> , 2002 , 1, 185-9	27	51
109	Determination of free hole concentration in ferromagnetic Ga _{1-x} MnxAs using electrochemical capacitance-voltage profiling. <i>Applied Physics Letters</i> , 2002 , 81, 844-846	3-4	44
108	Band anticrossing in highly mismatched III-V semiconductor alloys. <i>Semiconductor Science and Technology</i> , 2002 , 17, 860-869	1.8	262
107	Current status of research and development of III-N-V semiconductor alloys. <i>Semiconductor Science and Technology</i> , 2002 , 17, 741-745	1.8	57
106	Enhanced nitrogen incorporation by pulsed laser annealing of GaN _x As _{1-x} formed by N ion implantation. <i>Applied Physics Letters</i> , 2002 , 80, 3958-3960	3-4	27
105	Effect of the location of Mn sites in ferromagnetic Ga _{1-x} MnxAs on its Curie temperature. <i>Physical Review B</i> , 2002 , 65,	3-3	461
104	Small band gap bowing in In _{1-x} GaxN alloys. <i>Applied Physics Letters</i> , 2002 , 80, 4741-4743	3-4	498
103	Unusual properties of the fundamental band gap of InN. <i>Applied Physics Letters</i> , 2002 , 80, 3967-3969	3-4	1254
102	Band structure of highly mismatched semiconductor alloys: Coherent potential approximation. <i>Physical Review B</i> , 2002 , 65,	3-3	61
101	Transport-to-quantum lifetime ratios in AlGa _N /Ga _N heterostructures. <i>Applied Physics Letters</i> , 2002 , 80, 2508-2510	3-4	34
100	Acoustic phonon scattering of two-dimensional electrons in Ga _N /AlGa _N heterostructures. <i>Applied Physics Letters</i> , 2002 , 80, 1228-1230	3-4	46
99	Band anticrossing in GaP _{1-x} N _x alloys. <i>Physical Review B</i> , 2002 , 65,	3-3	62
98	Effects of the narrow band gap on the properties of InN. <i>Physical Review B</i> , 2002 , 66,	3-3	346
97	Band anticrossing in group II-Ox _{1-x} VI _{1-x} 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
96	Band anticrossing effects in MgyZn _{1-y} Te _{1-x} Sex alloys. <i>Applied Physics Letters</i> , 2002 , 80, 34-36	3-4	13
95	Intrinsic limitations to the doping of wide-gap semiconductors. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 123-134	2.8	279
94	Effects of structural defects on the activation of sulfur donors in GaN _x As _{1-x} formed by N implantation. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 874-876	2.8	

93	Band Anticrossing in III _N V Alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 223, 75-85	1.3	107
92	Effect of polarization fields on transport properties in AlGa _N /Ga _N heterostructures. <i>Journal of Applied Physics</i> , 2001 , 89, 1783	2.5	119
91	Formation of diluted III _N nitride thin films by N ion implantation. <i>Journal of Applied Physics</i> , 2001 , 90, 2227-2234	2.5	37
90	Influence of microstructure on electrical properties of diluted Ga _N As _{1-x} formed by nitrogen implantation. <i>Applied Physics Letters</i> , 2001 , 79, 931-933	3.4	12
89	Synthesis of In _N xP _{1-x} thin films by N ion implantation. <i>Applied Physics Letters</i> , 2001 , 78, 1077-1079	3.4	39
88	Band structure and optical properties of In _y Ga _{1-y} As _{1-x} N _x alloys. <i>Physical Review B</i> , 2001 , 65,	3.3	58
87	Calculation of the ground state of shallow donors in GaAs _{1-x} N _x . <i>Journal of Applied Physics</i> , 2001 , 89, 789-791	2.5	5
86	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
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