

Robin John Nicholas

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315 papers	13,496 citations	52 h-index	107 g-index
320 ext. papers	14,473 ext. citations	4.6 avg, IF	6.16 L-index

#	Paper	IF	Citations
315	Direct measurement of the exciton binding energy and effective masses for charge carriers in organic/inorganic tri-halide perovskites. <i>Nature Physics</i> , 2015 , 11, 582-587	16.2	1282
314	Carbon nanotube/polymer composites as a highly stable hole collection layer in perovskite solar cells. <i>Nano Letters</i> , 2014 , 14, 5561-8	11.5	944
313	Low-temperature processed electron collection layers of graphene/TiO ₂ nanocomposites in thin film perovskite solar cells. <i>Nano Letters</i> , 2014 , 14, 724-30	11.5	917
312	Highly selective dispersion of single-walled carbon nanotubes using aromatic polymers. <i>Nature Nanotechnology</i> , 2007 , 2, 640-6	28.7	880
311	Determination of the exciton binding energy and effective masses for methylammonium and formamidinium lead tri-halide perovskite semiconductors. <i>Energy and Environmental Science</i> , 2016 , 9, 962-970	35.4	457
310	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016 , 9, 2892-2901	35.4	301
309	Polymer structure and solvent effects on the selective dispersion of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3543-53	16.4	264
308	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. <i>Energy and Environmental Science</i> , 2017 , 10, 145-152	35.4	253
307	Exchange enhancement of the spin splitting in a GaAs-GaxAl. <i>Physical Review B</i> , 1988 , 37, 1294-1302	3.3	241
306	Diameter-selective encapsulation of metallocenes in single-walled carbon nanotubes. <i>Nature Materials</i> , 2005 , 4, 481-5	27	223
305	Magneto-optics in GaAs-Ga _{1-x} Al _x As quantum wells. <i>Physical Review B</i> , 1986 , 34, 4002-4009	3.3	217
304	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. <i>Advanced Materials</i> , 2016 , 28, 923-9	24	209
303	Observation of magnetic excitons and spin waves in activation studies of a two-dimensional electron gas. <i>Physical Review B</i> , 1990 , 41, 1129-1134	3.3	174
302	Measurements of the effective mass and scattering times of composite fermions from magnetotransport analysis. <i>Physical Review Letters</i> , 1994 , 72, 1906-1909	7.4	158
301	Modification of the electron-phonon interactions in GaAs-GaAlAs heterojunctions. <i>Physical Review Letters</i> , 1987 , 58, 77-80	7.4	142
300	Enhanced Hole Extraction in Perovskite Solar Cells Through Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4207-12	6.4	126
299	UV-vis absorption spectroscopy of carbon nanotubes: Relationship between the electron plasmon and nanotube diameter. <i>Chemical Physics Letters</i> , 2010 , 493, 19-23	2.5	124

- 298 An experimental determination of the effective masses for $GaxIn_{1-x}AsyP_{1-y}$ alloys grown on InP. *Applied Physics Letters*, **1979**, 34, 492-494 3.4 112
- 297 Unraveling the Exciton Binding Energy and the Dielectric Constant in Single-Crystal Methylammonium Lead Triiodide Perovskite. *Journal of Physical Chemistry Letters*, **2017**, 8, 1851-1855 6.4 108
- 296 Research Update: Strategies for improving the stability of perovskite solar cells. *APL Materials*, **2016**, 4, 091503 5.7 106
- 295 Cyclotron resonance studies on bulk and two-dimensional conduction electrons in InSe. *Solid State Communications*, **1982**, 44, 379-383 1.6 100
- 294 Extreme sensitivity of graphene photoconductivity to environmental gases. *Nature Communications*, **2012**, 3, 1228 17.4 94
- 293 A study of the conduction band non-parabolicity, anisotropy and spin splitting in GaAs and InP. *Semiconductor Science and Technology*, **1987**, 2, 568-577 1.8 88
- 292 Frequency-shifted polaron coupling in $Ga_{0.47}In_{0.53}As$ heterojunctions. *Physical Review Letters*, **1985**, 55, 883-886 7.4 87
- 291 Comparative studies on acid and thermal based selective purification of HiPCO produced single-walled carbon nanotubes. *Chemical Physics Letters*, **2004**, 386, 239-243 2.5 86
- 290 Noncovalent binding of carbon nanotubes by porphyrin oligomers. *Angewandte Chemie - International Edition*, **2011**, 50, 2313-6 16.4 85
- 289 The magnetophonon effect. *Progress in Quantum Electronics*, **1985**, 10, 1-75 9.1 85
- 288 Intersubband resonant scattering in $GaAs-Ga_{1-x}Al_xAs$ heterojunctions. *Physical Review B*, **1992**, 46, 12439-12442 39.3 82
- 287 Cyclotron resonance and the magnetophonon effect in $GaxIn_{1-x}AsyP_{1-y}$. *Applied Physics Letters*, **1980**, 37, 178-180 3.4 80
- 286 Structural and Optical Properties of $Cs_2AgBiBr_6$ Double Perovskite. *ACS Energy Letters*, **2019**, 4, 299-305 20.1 78
- 285 Investigating the Role of 4-Tert Butylpyridine in Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1601079 21.8 76
- 284 Ultrafast charge separation at a polymer-single-walled carbon nanotube molecular junction. *Nano Letters*, **2011**, 11, 66-72 11.5 76
- 283 Growth of GaSb by MOVPE. *Semiconductor Science and Technology*, **1988**, 3, 315-320 1.8 76
- 282 Observation of a type II heterojunction in a highly ordered polymer-carbon nanotube nanohybrid structure. *Nano Letters*, **2009**, 9, 3871-6 11.5 71
- 281 The k.p interaction in InP and GaAs from the band-gap dependence of the effective mass. *Journal of Physics C: Solid State Physics*, **1984**, 17, 4429-4442 70

- 280 Two-dimensional spin confinement in strained-layer quantum wells. *Physical Review B*, **1990**, 42, 9237-9240 69
- 279 A study of the deep acceptor levels of iron in InP. *Journal of Physics C: Solid State Physics*, **1979**, 12, 5145-5155 69
- 278 Cyclotron-resonance study of nonparabolicity and screening in GaAs-Ga_{1-x}Al_xAs heterojunctions. *Physical Review B*, **1987**, 36, 4789-4795 3.3 67
- 277 Quantum transport in GaInAs-AlInAs heterojunctions, and the influence of intersubband scattering. *Solid State Communications*, **1982**, 43, 907-911 1.6 66
- 276 Photoluminescence of GaSb grown by metal-organic vapour phase epitaxy. *Semiconductor Science and Technology*, **1991**, 6, 45-53 1.8 65
- 275 Carrier-concentration-dependent electron-LO-phonon coupling observed in GaAs-(Ga,Al)As heterojunctions by resonant-polaron cyclotron resonance. *Physical Review B*, **1988**, 38, 13133-13142 3.3 62
- 274 An experimental determination of enhanced electron g-factors in GaInAs-AlInAs heterojunctions. *Solid State Communications*, **1983**, 45, 911-914 1.6 61
- 273 Odd and even fractionally quantized states in GaAs-GaAlAs heterojunctions. *Surface Science*, **1986**, 170, 141-147 1.8 59
- 272 Dopant-Free Planar n⁺p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. *ACS Energy Letters*, **2017**, 2, 622-628 20.1 58
- 271 Controlled orientation of ellipsoidal fullerene C70 in carbon nanotubes. *Applied Physics Letters*, **2004**, 84, 792-794 3.4 58
- 270 Gamma -X mixing in the miniband structure of a GaAs/AlAs superlattice. *Physical Review Letters*, **1989**, 63, 2284-2287 7.4 58
- 269 Chirality assignment of single-walled carbon nanotubes with strain. *Physical Review Letters*, **2004**, 93, 156104 7.4 55
- 268 Evidence for Anderson localisation in Landau level tails from the analysis of two-dimensional Shubnikov-de Haas conductivity minima. *Solid State Communications*, **1977**, 23, 341-345 1.6 55
- 267 Direct spectroscopic evidence of energy transfer from photo-excited semiconducting polymers to single-walled carbon nanotubes. *Nanotechnology*, **2008**, 19, 095603 3.4 54
- 266 Optically detected cyclotron resonance of GaAs quantum wells: Effective-mass measurements and offset effects. *Physical Review B*, **1992**, 46, 13394-13399 3.3 53
- 265 The Impact of Phase Retention on the Structural and Optoelectronic Properties of Metal Halide Perovskites. *Advanced Materials*, **2016**, 28, 10757-10763 24 52
- 264 First observation of the quantum Hall effect in a Ga_{0.47}In_{0.53}As-InP heterostructure with three electric subbands. *Applied Physics Letters*, **1986**, 48, 712-714 3.4 52
- 263 Fractional quantum Hall effect in tilted magnetic fields. *Physical Review B*, **1987**, 36, 4528-4530 3.3 52

262	The effects of nitrogen and boron doping on the optical emission and diameters of single-walled carbon nanotubes. <i>Carbon</i> , 2006 , 44, 2752-2757	10.4	51
261	Carrier-concentration-dependent polaron cyclotron resonance in GaAs heterostructures. <i>Physical Review B</i> , 1992 , 45, 4296-4300	3.3	49
260	Magnetotransport in a pseudomorphic GaAs/Ga _{0.8} In _{0.2} As/Ga _{0.75} Al _{0.25} As heterostructure with a Si delta -doping layer. <i>Physical Review B</i> , 1995 , 52, 12218-12231	3.3	48
259	Electronic and mechanical modification of single-walled carbon nanotubes by binding to porphyrin oligomers. <i>ACS Nano</i> , 2011 , 5, 2307-15	16.7	47
258	Anomalies in the cyclotron resonance in high-mobility GaAs-Ga _{1-x} Al _x As heterojunctions. <i>Physical Review B</i> , 1989 , 39, 10955-10962	3.3	47
257	Comparative study of photoluminescence of single-walled carbon nanotubes wrapped with sodium dodecyl sulfate, surfactin and polyvinylpyrrolidone. <i>Nanotechnology</i> , 2005 , 16, S202-S205	3.4	46
256	New phases of the 2D electron system in the ultra-quantum limit observed by cyclotron resonances. <i>Physical Review Letters</i> , 1993 , 70, 2150-2153	7.4	46
255	Rapid epitaxy-free graphene synthesis on silicidated polycrystalline platinum. <i>Nature Communications</i> , 2015 , 6, 7536	17.4	45
254	Wavelength-dependent photoconduction effects on the second sub-band occupancy in (Al, Ga)As/GaAs heterojunctions. <i>Semiconductor Science and Technology</i> , 1987 , 2, 783-789	1.8	45
253	Cyclotron phonon emission and electron energy loss rates in GaAs-GaAlAs heterojunctions. <i>Semiconductor Science and Technology</i> , 1989 , 4, 879-884	1.8	44
252	Two-dimensional magnetophonon resonance. I. GaInAs-InP superlattices. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, L573-L578		44
251	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. <i>ACS Energy Letters</i> , 2018 , 3, 1233-1240	20.1	43
250	GaSb heterostructures grown by MOVPE. <i>Journal of Crystal Growth</i> , 1988 , 93, 70-78	1.6	41
249	Cyclotron resonance of electrons in a narrow GaAs/(Ga,Al)As quantum well: Polaron effects and non-parabolicity. <i>Surface Science</i> , 1988 , 196, 429-436	1.8	41
248	Effect masses and non-parabolicity in Ga _x In _{1-x} As. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, 2667-2676		41
247	Raman scattering in InP _{1-x} As _x alloys. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 899-910		41
246	Observation of decoupled heavy and light holes in GaAs-Ga _{1-x} Al _x As quantum wells by magnetorefectivity. <i>Physical Review B</i> , 1988 , 38, 1323-1329	3.3	40
245	Observation of optically detected magnetophonon resonance. <i>Physical Review Letters</i> , 1991 , 66, 794-797	7.4	39

244	Experimental studies of the $\nu = 1/5$ hierarchy in the fractional quantum Hall effect. <i>Physical Review B</i> , 1988 , 38, 2200-2203	3.3	38
243	Two-dimensional magnetophonon resonance. II. GaInAs-AlInAs heterojunctions. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, L579-L584		37
242	Spatially resolved studies of the phases and morphology of methylammonium and formamidinium lead tri-halide perovskites. <i>Nanoscale</i> , 2017 , 9, 3222-3230	7.7	36
241	Growth of InAs/GaSb strained layer superlattices. I. <i>Journal of Crystal Growth</i> , 1994 , 145, 778-785	1.6	36
240	An investigation of the valley splitting in n-channel silicon <100> inversion layers. <i>Solid State Communications</i> , 1980 , 34, 51-55	1.6	35
239	Quantum oscillations at a Ga _{0.47} In _{0.53} As/InP heterojunction interface. <i>Solid State Communications</i> , 1982 , 43, 825-828	1.6	35
238	Terahertz Excitonic Response of Isolated Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18106-18109	3.8	34
237	Effective mass and quantum lifetime in a Si/Si _{0.87} Ge _{0.13} /Si two-dimensional hole gas. <i>Applied Physics Letters</i> , 1994 , 64, 357-359	3.4	34
236	Influence of acoustic phonons on inter-subband scattering in GaAs-GaAlAs heterojunctions. <i>Semiconductor Science and Technology</i> , 1989 , 4, 885-888	1.8	34
235	GaSb/GaInSb quantum wells grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 1989 , 54, 922-924	3.4	34
234	Thiophene-based dyes for probing membranes. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 3792-802	3.9	33
233	Cyclotron resonance and screening effects in GaAs-GaAlAs heterojunctions. <i>Superlattices and Microstructures</i> , 1986 , 2, 319-322	2.8	33
232	Subband-Landau level coupling in a two-dimensional electron gas in tilted magnetic fields. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, L107-L112		33
231	Nanoengineering coaxial carbon nanotube-dual-polymer heterostructures. <i>ACS Nano</i> , 2012 , 6, 6058-66	16.7	32
230	. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 77-92		32
229	Phonon drag contribution to thermoelectric power in two-dimensional systems. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, L695-L698		32
228	Impact of microstructure on the electron-hole interaction in lead halide perovskites. <i>Energy and Environmental Science</i> , 2017 , 10, 1358-1366	35.4	31
227	Chirality-dependent boron-mediated growth of nitrogen-doped single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	31

226	Temperature induced restoration of fluorescence from oxidised single-walled carbon nanotubes in aqueous sodium dodecylsulfate solution. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3547-51	3.6	31
225	Strain reconstruction of the valence band in Ga _{1-x} In _x Sb/GaSb quantum wells. <i>Surface Science</i> , 1990 , 228, 270-274	1.8	30
224	Two-dimensional magnetophonon resonance in GaInAs-InP and GaInAs-AlInAs heterojunctions and superlattices. <i>Surface Science</i> , 1984 , 142, 368-374	1.8	30
223	Cyclotron resonance and polaron effects in a two-dimensional electron gas in GaInAs. <i>Surface Science</i> , 1984 , 142, 380-387	1.8	30
222	Temperature dependence of the cyclotron-resonance linewidth in GaAs-Ga _{1-x} Al _x As heterojunctions. <i>Physical Review B</i> , 1989 , 39, 13302-13309	3.3	29
221	On the Electronic g-Factor in n-Type Silicon Inversion Layers. <i>Physica Status Solidi (B): Basic Research</i> , 1980 , 99, 237-242	1.3	29
220	Evidence for a reduction in the momentum matrix element P ₂ due to alloy disorder in InAs _{1-x} P _x . <i>Journal of Physics C: Solid State Physics</i> , 1979 , 12, 1641-1651		28
219	GaAs/GaSb strained-layer heterostructures deposited by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 1989 , 54, 1241-1243	3.4	27
218	Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions. <i>Surface Science</i> , 1988 , 196, 451-458	1.8	27
217	Magnetic separation of Fe catalyst from single-walled carbon nanotubes in an aqueous surfactant solution. <i>Carbon</i> , 2005 , 43, 1151-1155	10.4	26
216	An ultrafast carbon nanotube terahertz polarisation modulator. <i>Journal of Applied Physics</i> , 2014 , 115, 203108	2.5	25
215	Influence of light on the confinement potential of GaAs/Al _x Ga _{1-x} As heterojunctions. <i>Physical Review B</i> , 1995 , 52, 2688-2696	3.3	25
214	Cyclotron resonance in InAs/GaSb heterostructures. <i>Semiconductor Science and Technology</i> , 1992 , 7, 985-993		25
213	Interface studies of InAs/GaSb superlattices by Raman scattering. <i>Surface Science</i> , 1992 , 267, 176-180	1.8	25
212	Energy relaxation mechanisms in n-type GaAs from magnetophonon spectroscopy. <i>Journal of Physics C: Solid State Physics</i> , 1976 , 9, 1253-1262		25
211	Growth of InAsGaSb strained layer superlattices. II. <i>Journal of Crystal Growth</i> , 1995 , 146, 495-502	1.6	24
210	Resonant 2D magnetopolarons in accumulation layers on n-Hg _{0.8} Cd _{0.2} Te. <i>Solid State Communications</i> , 1986 , 58, 833-838	1.6	24
209	Giant Fine Structure Splitting of the Bright Exciton in a Bulk MAPbBr ₃ Single Crystal. <i>Nano Letters</i> , 2019 , 19, 7054-7061	11.5	23

208	Metal-insulator oscillations in a two-dimensional electron-hole system. <i>Physical Review Letters</i> , 2000 , 85, 2364-7	7.4	23
207	Enhanced carrier densities and device performance in piezoelectric pseudomorphic high-electron mobility transistor structures. <i>Applied Physics Letters</i> , 1992 , 61, 1072-1074	3.4	23
206	Inter-subband scattering rates in GaAs-GaAlAs heterojunctions. <i>Semiconductor Science and Technology</i> , 1990 , 5, 1081-1087	1.8	23
205	Two-dimensional behaviour due to electrons bound at defects in InSe. <i>Surface Science</i> , 1982 , 113, 339-346	4.8	23
204	Evidence for a contribution to the extrinsic photoconductive signal by hopping through excited states of the donors in silicon and CdTe. <i>Solid State Communications</i> , 1977 , 24, 55-60	1.6	23
203	[001]- and piezoelectric-[111]-oriented InAs/GaSb structures under hydrostatic pressure. <i>Physical Review B</i> , 1994 , 49, 16614-16621	3.3	22
202	Observation of magnetic-field-induced semimetal-semiconductor transitions in crossed-gap superlattices by cyclotron resonance. <i>Physical Review B</i> , 1994 , 49, 10474-10483	3.3	22
201	High-pressure investigation of GaSb and Ga _{1-x} In _x Sb/GaSb quantum wells. <i>Physical Review B</i> , 1991 , 43, 4994-5000	3.3	22
200	Oscillatory behavior in the photoluminescence excitation and photoconductivity spectra of GaAs-AlAs superlattices. <i>Physical Review B</i> , 1989 , 39, 1219-1223	3.3	22
199	Pressure dependence of light-hole transport in strained InGaAs/GaAs. <i>Surface Science</i> , 1990 , 229, 122-125	5.8	22
198	The electric sub-band structure of electron accumulation layers in InSe from Shubnikov-de Haas oscillations and inter-sub-band resonance. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 4285-4295		22
197	Cyclotron resonance linewidth in a two-dimensional electron gas. <i>Surface Science</i> , 1982 , 113, 326-332	1.8	22
196	Production of high-purity single-chirality carbon nanotube hybrids by selective polymer exchange. <i>Small</i> , 2013 , 9, 2245-9	11	21
195	Introduction. Carbon-based electronics: fundamentals and device applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 189-93	3	21
194	Devices and desires in the 2-4 μm region based on antimony-containing III-V heterostructures grown by MOVPE. <i>Semiconductor Science and Technology</i> , 1993 , 8, S380-S385	1.8	21
193	An optically detected cyclotron resonance study of bulk GaAs. <i>Semiconductor Science and Technology</i> , 1994 , 9, 198-206	1.8	21
192	Collapse of high field magnetophonon resonance in GaAs-GaAlAs heterojunctions. <i>Physical Review Letters</i> , 1994 , 73, 589-592	7.4	21
191	The analysis of thermal activation of two-dimensional Shubnikov-De Haas conductivity minima and maxima. <i>Surface Science</i> , 1978 , 73, 106-115	1.8	21

190	MOVPE grown self-assembled and self-ordered InSb quantum dots in a GaSb matrix assessed by AFM, CTEM, HRTEM and PL. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 80, 112-115	3.1	20
189	Searches for skyrmions in the limit of zero α -factor. <i>Semiconductor Science and Technology</i> , 1998 , 13, 671-679		20
188	Cyclotron resonance of high-mobility GaAs/AlGaAs (311) 2DHGs. <i>Semiconductor Science and Technology</i> , 1993 , 8, 1465-1469	1.8	20
187	High magnetic field studies of the crossed-gap superlattice system InAs/GaSb. <i>Physica B: Condensed Matter</i> , 1993 , 184, 268-276	2.8	20
186	Quantum transport in accumulation layers on Cd _{0.2} Hg _{0.8} Te. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 35-42		20
185	Frequency shifted polaron coupling in GaInAs heterostructures. <i>Surface Science</i> , 1986 , 170, 542-548	1.8	20
184	High field magneto-transport measurements in GaAs-GaAlAs multilayers. <i>Surface Science</i> , 1982 , 113, 290-294	1.8	20
183	High-field magnetoresistance in GaAs/Ga _{0.7} Al _{0.3} As heterojunctions arising from elastic and inelastic scattering. <i>Physical Review B</i> , 1993 , 48, 5457-5468	3.3	19
182	Cyclotron resonance of both magnetopolaron branches for polar and neutral optical phonon coupling in the layer compound InSe. <i>Physical Review B</i> , 1992 , 45, 12144-12147	3.3	19
181	GaSb/InAs heterojunctions grown by MOVPE: Effect of gas switching sequences on interface quality. <i>Journal of Crystal Growth</i> , 1991 , 110, 677-682	1.6	19
180	Limits on band discontinuities in GaAs-GaAlAs heterostructures deduced from optical photoresponse. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, L891-L896		19
179	Magnetoconductivity in a mesoscopic antidot array. <i>Physical Review B</i> , 1993 , 47, 7348-7353	3.3	18
178	Persistent photoconductivity in Ga _{0.49} In _{0.51} P/GaAs heterojunctions. <i>Journal of Applied Physics</i> , 1989 , 65, 2756-2760	2.5	18
177	Shallow donor spectroscopy and polaron coupling in Ga _{0.47} In _{0.53} As. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, L427-L431		18
176	The magnetophonon effect in InAs _{1-x} P _x . <i>Journal of Physics C: Solid State Physics</i> , 1979 , 12, 1653-1664		18
175	Solubilization of Carbon Nanotubes with Ethylene-Vinyl Acetate for Solution-Processed Conductive Films and Charge Extraction Layers in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1185-1191	9.5	18
174	Hot carrier relaxation of Dirac fermions in bilayer epitaxial graphene. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 164202	1.8	17
173	Surface-Effect-Induced Optical Bandgap Shrinkage in GaN Nanotubes. <i>Nano Letters</i> , 2015 , 15, 4472-6	11.5	17

172	Orientation and pressure dependence of the band overlap in InAs/GaSb structures. <i>Semiconductor Science and Technology</i> , 1994 , 9, 118-122	1.8	17
171	Evolution of the electronic states of coupled (In,Ga)As-GaAs quantum wells into superlattice minibands. <i>Physical Review B</i> , 1990 , 42, 3024-3029	3.3	17
170	Magneto-optical studies of GaInAs/InP quantum wells. <i>Superlattices and Microstructures</i> , 1987 , 3, 471-475	5.8	17
169	Infrared single wavelength gas composition monitoring for metalorganic vapour-phase epitaxy. <i>Journal of Crystal Growth</i> , 2000 , 221, 166-171	1.6	16
168	Optical and magnetotransport properties of semimetallic InAs/(In,Ga)Sb superlattices. <i>Physica B: Condensed Matter</i> , 1994 , 201, 271-279	2.8	16
167	GaSb/InAs heterojunctions grown by MOVPE. <i>Journal of Crystal Growth</i> , 1991 , 107, 422-427	1.6	16
166	Magnetotransport of piezoelectric [111] oriented strained quantum wells. <i>Applied Physics Letters</i> , 1991 , 59, 659-661	3.4	16
165	Studies deep chromium acceptor levels in InP. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, 2135-2146		16
164	The effects of high uniaxial stress on the far infra-red impurity spectra of high purity n- and p-type silicon. <i>Solid State Communications</i> , 1978 , 26, 11-15	1.6	16
163	Hyperspectral imaging of exciton photoluminescence in individual carbon nanotubes controlled by high magnetic fields. <i>Nano Letters</i> , 2014 , 14, 5194-200	11.5	15
162	Internal self-ordering in In(Sb,As), (In,Ga)Sb, and (Cd,Zn,Mn)Se nano-agglomerates/quantum dots. <i>Applied Physics Letters</i> , 2001 , 79, 946-948	3.4	15
161	Electroluminescence out to 2.1 μm observed in GaSb/In _x Ga _{1-x} Sb quantum wells grown by MOVPE. <i>Semiconductor Science and Technology</i> , 1994 , 9, 87-90	1.8	15
160	Miniband structure in In _x Ga _{1-x} As-GaAs strained-layer superlattices. <i>Physical Review B</i> , 1991 , 43, 2246-2254	5.4	15
159	Piezoelectric control of doping and band structure in the crossed gap system GaSb/InAs. <i>Surface Science</i> , 1992 , 263, 575-579	1.8	15
158	Measurements of hot electron magnetophonon resonance in GaAs/GaAlAs heterostructures. <i>Solid-State Electronics</i> , 1988 , 31, 781-784	1.7	15
157	High magnetic field studies of the two-dimensional electron gas in GaInAs-InP superlattices. <i>Applied Physics Letters</i> , 1983 , 43, 293-295	3.4	15
156	Improved photoluminescence from electrochemically passivated GaSb. <i>Semiconductor Science and Technology</i> , 1997 , 12, 413-418	1.8	14
155	Bandgap-selective chemical doping of semiconducting single-walled carbon nanotubes. <i>Nanotechnology</i> , 2004 , 15, 1844-1847	3.4	14

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