Giorgio Biasiol

List of Publications by Year in Descending Order

180 papers	3,569 citations	29 h-index	51 g-index
202 ext. papers	4,049 ext. citations	3.9 avg, IF	4.89 L-index

#	Paper	IF	Citations
180	Excitons bound by photon exchange. *Nature Physics*, **2021**, 17, 31-35	16.2	10
179	Fast amplitude modulation up to 1.5 GHz of mid-IR free-space beams at room-temperature. *Nature Communications*, **2021**, 12, 799	17.4	15
178	Chiral Dielectric Metasurfaces: Optomechanics of Chiral Dielectric Metasurfaces (Advanced Optical Materials 4/2020). *Advanced Optical Materials*, **2020**, 8, 2070016	8.1	1
177	Broadband Dynamic Polarization Conversion in Optomechanical Metasurfaces. *Frontiers in Physics*, **2020**, 7,	3.9	2
176	Picosecond pump-probe X-ray scattering at the Elettra SAXS beamline. *Journal of Synchrotron Radiation*, **2020**, 27, 51-59	2.4	3
175	Departure from the Babinet principle in metasurfaces supported by subwavelength dielectric slabs. *Optics Letters*, **2020**, 45, 3402-3405	3	3
174	Optomechanics of Chiral Dielectric Metasurfaces. *Advanced Optical Materials*, **2020**, 8, 1901507	8.1	12
173	Optimization of GaAs/AlGaAs staircase avalanche photodiodes accounting for both electron and hole impact ionization. *Solid-State Electronics*, **2020**, 168, 107728	1.7	2
172	Magnetic-Field-Dependent Equilibration of Fractional Quantum Hall Edge Modes. *Physical Review Letters*, **2020**, 125, 076802	7.4	4
171	Full electrostatic control of quantum interference in an extended trenched Josephson junction. *Physical Review B*, **2019**, 99,	3.3	10
170	Evidence of Intersubband Linewidth Narrowing Using Growth Interruption Technique. *Photonics*, **2019**, 6, 38	2.2	2
169	Quantum well infrared photo-detectors operating in the strong light-matter coupling regime. *Applied Physics Letters*, **2019**, 114, 131104	3.4	13
168	Toward Quantum Hall Effect in a Josephson Junction. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800222	2.5	18
167	Double-side pixelated X-ray detector based on metamorphic InGaAs/InAlAs quantum well. *Journal of Instrumentation*, **2019**, 14, C01014-C01014	1	1
166	III-V on CaF: a possible waveguiding platform for mid-IR photonic devices. *Optics Express*, **2019**, 27, 1672-1682	3.5	4
165	Investigation of InAs-based devices for topological applications **2019**,		1
164	Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. *Nanophotonics*, **2019**, 8, 2291-2301	6.3	9

163	Gain and noise in GaAs/AlGaAs avalanche photodiodes with thin multiplication regions. *Journal of Instrumentation*, **2019**, 14, C01003-C01003	1	5
162	First observation of the quantized exciton-polariton field and effect of interactions on a single polariton. *Science Advances*, **2018**, 4, eaao6814	14.3	34
161	Classical Effects in the Weak-Field Magnetoresistance of InGaAs/InAlAs Quantum Wells. *JETP Letters*, **2018**, 107, 320-323	1.2	1
160	An Improved Random Path Length Algorithm for p-i-n and Staircase Avalanche Photodiodes **2018**,		1
159	Resonant intersubband polariton-LO phonon scattering in an optically pumped polaritonic device. *Applied Physics Letters*, **2018**, 112, 191106	3.4	10
158	An Improved Nonlocal History-Dependent Model for Gain and Noise in Avalanche Photodiodes Based on Energy Balance Equation. *IEEE Transactions on Electron Devices*, **2018**, 65, 1823-1829	2.9	10
157	Fast pixelated sensors for radiation detection and imaging based on quantum confined structures in III/V semiconductors. *Journal of Instrumentation*, **2017**, 12, C03032-C03032	1	
156	Influence of □-doping on the behaviour of GaAs/AlGaAs SAM-APDs for synchrotron radiation. *Journal of Instrumentation*, **2017**, 12, C11017-C11017	1	1
155	Immunity of intersubband polaritons to inhomogeneous broadening. *Physical Review B*, **2017**, 96,	3.3	12
154	Ultra-subwavelength resonators for high temperature high performance quantum detectors. *New Journal of Physics*, **2016**, 18, 113016	2.9	30
153	III□V site-controlled quantum dots on Si patterned by nanoimprint lithography. *Journal of Crystal Growth*, **2016**, 437, 59-62	1.6	1
152	Site-Control of InAs/GaAs Quantum Dots with Indium-Assisted Deoxidation. *Materials*, **2016**, 9,	3.5	4
151	Position-sensitive multi-wavelength photon detectors based on epitaxial InGaAs/InAlAs quantum wells. *Journal of Crystal Growth*, **2015**, 425, 341-345	1.6	2
150	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. *Physical Review B*, **2015**, 91,	3.3	17
149	Interferometric control of absorption in thin plasmonic metamaterials: general two port theory and broadband operation. *Optics Express*, **2015**, 23, 9202-10	3.3	19
148	Scanning gate imaging of quantum point contacts and the origin of the 0.7 anomaly. *Nano Research*, **2015**, 8, 948-956	10	5
147	Polarization properties and disorder effects in H3 photonic crystal cavities incorporating site-controlled, high-symmetry quantum dot arrays. *Applied Physics Letters*, **2015**, 107, 031106	3.4	4
146	Fast, multi-wavelength, efficiency-enhanced pixelated devices based on InGaAs/InAlAs quantum-well. *Journal of Instrumentation*, **2015**, 10, C03009-C03009	1	2

145	Saturation and bistability of defect-mode intersubband polaritons. *Physical Review B*, **2015**, 91,	3.3	9
144	Antenna-coupled microcavities for enhanced infrared photo-detection. *Applied Physics Letters*, **2014**, 104, 031113	3.4	54
143	Tunable Nonequilibrium Luttinger Liquid Based on Counterpropagating Edge Channels. *Physical Review Letters*, **2014**, 112,	7.4	22
142	Nonlinear transport and noise thermometry in quasiclassical ballistic point contacts. *Physical Review B*, **2014**, 90,	3.3	8
141	Integrated architecture for the electrical detection of plasmonic resonances based on high electron mobility photo-transistors. *Nanoscale*, **2014**, 6, 1390-7	7.7	3
140	Mid-infrared intersubband polaritons in dispersive metal-insulator-metal resonators. *Applied Physics Letters*, **2014**, 105, 081105	3.4	15
139	Perfect energy-feeding into strongly coupled systems and interferometric control of polariton absorption. *Nature Physics*, **2014**, 10, 830-834	16.2	52
138	Photonic bands and defect modes in metallo-dielectric photonic crystal slabs. *Journal of the Optical Society of America B: Optical Physics*, **2014**, 31, 1451	1.7	4
137	Position sensitive photon detectors using epitaxial InGaAs/InAlAs quantum wells. *Journal of Instrumentation*, **2014**, 9, C12043-C12043	1	2
136	Fast pixelated quantum-well-based sensor for multi-wavelength photon detection. *Journal of Instrumentation*, **2014**, 9, C05034-C05034	1	3
135	Current-induced magnetization dynamics at the edge of a two-dimensional electron system with strong spin-orbit coupling. *Physical Review B*, **2014**, 89,	3.3	5
134	A ballistic two-dimensional-electron-gas Andreev interferometer. *Applied Physics Letters*, **2014**, 104, 242604	3.4	5
133	Spin transition in the fractional quantum Hall regime: Effect of the extent of the wave function. *Physical Review B*, **2013**, 87,	3.3	4
132	Nongalvanic primary thermometry of a two-dimensional electron gas. *Physical Review B*, **2013**, 88,	3.3	8
131	Andreev reflection at the edge of a two-dimensional electron system with strong spin-orbit coupling. *JETP Letters*, **2013**, 98, 421-426	1.2	5
130	Fast synchrotron and FEL beam monitors based on single-crystal diamond detectors and InGaAs/InAlAs quantum well devices. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 730, 164-167	1.2	13
129	Gate controlled coupling of intersubband plasmons. *Applied Physics Letters*, **2013**, 102, 031102	3.4	7
128	Sub-cycle switching of a photonic bandstructure via ultrastrong light-matter coupling. *EPJ Web of Conferences*, **2013**, 41, 09009	0.3	

127	A ballistic quantum ring Josephson interferometer. *Nanotechnology*, **2013**, 24, 245201	3.4	12
126	Electrostatic tailoring of magnetic interference in quantum point contact ballistic Josephson junctions. *Physical Review B*, **2013**, 87,	3.3	19
125	Towards an Electronic Interferometer based on Spin-Resolved Quantum Hall Edge States. *Journal of Physics: Conference Series*, **2013**, 456, 012019	0.3	3
124	Trion confinement and exciton shrinkage in the 2DEG at high magnetic fields. *Solid State Communications*, **2012**, 152, 1123-1126	1.6	2
123	Energy spectrum reconstruction at the edge of a two-dimensional electron system with strong spin-orbit coupling. *Physical Review B*, **2012**, 86,	3.3	6
122	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. *Physical Review B*, **2012**, 85,	3.3	31
121	Influence of e-e scattering on the temperature dependence of the resistance of a classical ballistic point contact in a two-dimensional electron system. *Physical Review B*, **2012**, 86,	3.3	9
120	Quantum Hall Mach-Zehnder interferometer at fractional filling factors. *Europhysics Letters*, **2012**, 100, 67009	1.6	7
119	Extremely sub-wavelength THz metal-dielectric wire microcavities. *Optics Express*, **2012**, 20, 29121-30	3.3	31
118	Imaging fractional incompressible stripes in integer quantum Hall systems. *Physical Review Letters*, **2012**, 108, 246801	7.4	24
117	Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. *Physical Review B*, **2012**, 86,	3.3	14
116	Ultrafast optical bleaching of intersubband cavity polaritons. *Physical Review B*, **2012**, 86,	3.3	17
115	Analysis of line shapes and strong coupling with intersubband transitions in one-dimensional metallodielectric photonic crystal slabs. *Physical Review B*, **2012**, 85,	3.3	13
114	Bunch by bunch beam monitoring in 3rdand 4thgeneration light sources by means of single crystal diamond detectors and quantum well devices **2012**,		5
113	Energy transport by neutral collective excitations at the quantum Hall edge. *Physical Review Letters* , **2011**, 106, 256802	7.4	15
112	Optical probing of quantum Hall effect of composite fermions and of the liquid-insulator transition. *Journal of Physics: Conference Series*, **2011**, 334, 012022	0.3	
111	One-dimensional surface-plasmon gratings for the excitation of intersubband polaritons in suspended membranes. *Solid State Communications*, **2011**, 151, 1725-1727	1.6	7
110	Ordered systems of site-controlled pyramidal quantum dots incorporated in photonic crystal cavities. *Nanotechnology*, **2011**, 22, 465203	3.4	18

109	Phonon-mediated coupling of InGaAs/GaAs quantum-dot excitons to photonic crystal cavities. *Physical Review Letters*, **2011**, 106, 227402	7.4	72
108	Compositional mapping of semiconductor quantum dots and rings. *Physics Reports*, **2011**, 500, 117-173	27.7	54
107	Composition uniformity of site-controlled InAs/GaAs quantum dots. *Journal of Crystal Growth*, **2011**, 323, 176-179	1.6	7
106	Optical probing of the metal-to-insulator transition in a two-dimensional high-mobility electron gas. *New Journal of Physics*, **2011**, 13, 063003	2.9	1
105	Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. *Physical Review B*, **2011**, 83,	3.3	24
104	Impact of electron heating on the equilibration between quantum Hall edge channels. *Physical Review B*, **2011**, 84,	3.3	9
103	Quantum Hall Mach-Zehnder interferometer far beyond equilibrium. *Physical Review B*, **2011**, 84,	3.3	13
102	Magnetic field tuning of antiferromagnetic Yb3Pt4. *Physical Review B*, **2011**, 84,	3.3	9
101	Circularly polarized resonant Rayleigh scattering and Skyrmions in the □ = 1 quantum Hall ferromagnet. *Physical Review B*, **2011**, 83,	3.3	6
100	Probing the local temperature of a two-dimensional electron gas microdomain with a quantum dot: Measurement of electron-phonon interaction. *Physical Review B*, **2011**, 83,	3.3	21
99	Controlled coupling of spin-resolved quantum Hall edge states. *Physical Review Letters*, **2011**, 107, 236804	7.4	40
98	Proximity effect in a two-dimensional electron gas probed with a lateral quantum dot. *Physical Review B*, **2011**, 84,	3.3	15
97	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. *Applied Physics Letters*, **2011**, 98, 231114	3.4	32
96	Switching ultrastrong light□matter coupling on a subcycle scale. *Journal of Applied Physics*, **2011**, 109, 102418	2.5	7
95	Quantum dot spectroscopy of proximity-induced superconductivity in a two-dimensional electron gas. *Applied Physics Letters*, **2011**, 98, 132101	3.4	9
94	Photoemission Microscopy Studies of Quantum Dots and Rings. *Journal of Nanoelectronics and Optoelectronics*, **2011**, 6, 20-33	1.3	4
93	Local investigation of the energy gap within the incompressible strip in the quantum Hall regime. *JETP Letters*, **2010**, 92, 67-70	1.2	4
92	Correlation-induced single-flux-quantum penetration in quantum rings. *Nature Physics*, **2010**, 6, 173-177	16.2	22

91	Surface compositional profiles of self-assembled InAs/GaAs quantum rings **2010**,		2
90	Singlet-triplet transition in a few-electron lateral In0.75Ga0.25As/In0.75Al0.25As quantum dot. *Applied Physics Letters*, **2010**, 96, 142107	3.4	5
89	Optical detection of quantum Hall effect of composite fermions and evidence of the ⅜ state. *Physical Review B*, **2010**, 81,	3.3	12
88	Intersubband polaritons in a one-dimensional surface plasmon photonic crystal. *Applied Physics Letters*, **2010**, 97, 231123	3.4	22
87	Cantilever deflection measurement and actuation by an interdigitated transducer. *Applied Physics Letters*, **2010**, 96, 173505	3.4	3
86	Towards Intersubband Polaritonics: How Fast Can Light and Electrons Mate? **2010**, 85-96		
85	Selective control of edge-channel trajectories by scanning gate microscopy. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1038-1041	3	26
84	Kinetics of the evolution of InAs/GaAs quantum dots to quantum rings: A combined x-ray, atomic force microscopy, and photoluminescence study. *Physical Review B*, **2009**, 80,	3.3	17
83	Tuning nonlinear charge transport between integer and fractional quantum Hall states. *Physical Review Letters*, **2009**, 103, 016802	7.4	19
82	Interference effects in transport across a single incompressible strip at the edge of the fractional quantum Hall system. *Physical Review B*, **2009**, 79,	3.3	5
81	Impact of classical forces and decoherence in multiterminal Aharonov-Bohm networks. *Physical Review B*, **2009**, 79,	3.3	21
80	Acoustoelectric luminescence from a field-effect n-i-p lateral junction. *Applied Physics Letters*, **2009**, 94, 121103	3.4	13
79	Growth of vertical InAs nanowires on heterostructured substrates. *Nanotechnology*, **2009**, 20, 285303	3.4	16
78	Sub-cycle switch-on of ultrastrong light-matter interaction. *Nature*, **2009**, 458, 178-81	50.4	384
77	Surface compositional mapping of self-assembled InAs/GaAs quantum rings. *Journal of Crystal Growth*, **2009**, 311, 1764-1766	1.6	7
76	Signatures of the ultrastrong light-matter coupling regime. *Physical Review B*, **2009**, 79,	3.3	219
75	How fast electrons and photons mix: Sub-cycle switching of intersubband cavity polaritons. *Journal of Physics: Conference Series*, **2009**, 193, 012060	0.3	2
74	Transport anisotropy in In0.75Ga0.25As two-dimensional electron gases induced by indium concentration modulation. *Physical Review B*, **2008**, 77,	3.3	16

73	Structural and Magnetic Properties of Epitaxial Fe and Ni Thin Films Grown on n-AlGaAs(001) Using Electrodeposition. *Electrochemical and Solid-State Letters*, **2008**, 11, D43		2
72	Conductive atomic force microscopy of InAs□GaAs quantum rings. *Applied Physics Letters*, **2008**, 92, 192105	3.4	13
71	Integration of site-controlled pyramidal quantum dots and photonic crystal membrane cavities. *Applied Physics Letters*, **2008**, 92, 263101	3.4	79
70	Relevant energy scale in hybrid mesoscopic Josephson junctions. *Physical Review B*, **2008**, 78,	3.3	7
69	Filling factor dependence of the fractional quantum Hall effect gap. *Physical Review Letters*, **2008**, 100, 196805	7.4	13
68	Tailoring light□matter interaction in intersubband microcavities. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1906-1908	3	
67	Aharonov□Bohm effect of quantum Hall edge channels. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1470-1472	3	1
66	Transport anisotropy in InGaAs 2D electron gases. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1392-1394	3	3
65	Magnetic field sensitivity of In0.75Ga0.25As Hall nanoprobes. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 147, 148-151	3.1	2
64	Controlling polariton coupling in intersubband microcavities. *Superlattices and Microstructures*, **2007**, 41, 308-312	2.8	3
63	Focused ion beam patterned Hall nano-sensors. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 2752-2754	2.8	3
62	Direct measurements of fractional quantum Hall effect gaps. *Physical Review Letters*, **2007**, 99, 086802	7.4	22
61	Cavity polaritons from excited-subband transitions. *Applied Physics Letters*, **2007**, 91, 231118	3.4	22
60	Surface Concentration Mapping of InAs/GaAs Quantum Dots. *AIP Conference Proceedings*, **2007**,	0	2
59	Morphology and composition of InAs/GaAs quantum dots. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 1721-5	1.3	7
58	Chemistry and formation process of Ga(Al)As oxide during local anodic oxidation nanolithography. *Surface Science*, **2006**, 600, 3739-3743	1.8	8
57	Hall nano-probes fabricated by focused ion beam. *Nanotechnology*, **2006**, 17, 2105-2109	3.4	15
56	Tunnel-assisted manipulation of intersubband polaritons in asymmetric coupled quantum wells. *Applied Physics Letters*, **2006**, 89, 171109	3.4	31

55	X-ray induced variation of the chemistry of GaAs/AlAs oxide nanostructures. *Nuclear Instruments & Methods in Physics Research B*, **2006**, 246, 39-44	1.2	6
54	on submicron rings and their application for coherent nanoelectronic devices. *Physica E: Low-Dimensional Systems and Nanostructures*, **2006**, 32, 53-56	3	16
53	Correlated electron states at level crossings of bilayer two-dimensional electron systems in tilted magnetic fields. *Physica E: Low-Dimensional Systems and Nanostructures*, **2006**, 34, 179-182	3	1
52	Electrical control of polariton coupling in intersubband microcavities. *Applied Physics Letters*, **2005**, 87, 051105	3.4	59
51	Magnetoresistively detected electron spin resonance in low-density two-dimensional electron gas in GaAs-AlGaAs single quantum wells. *IEEE Nanotechnology Magazine*, **2005**, 4, 100-105	2.6	2
50	Surface compositional gradients of InAs□GaAs quantum dots. *Applied Physics Letters*, **2005**, 87, 223106	3.4	28
49	Scattering mechanisms in undoped In0.75Ga0.25As/In0.75Al0.25As two-dimensional electron gases. *Journal of Crystal Growth*, **2005**, 278, 538-543	1.6	18
48	Spin susceptibility of two-dimensional hole gases in GaAs/AlGaAs heterostructures. *Solid State Communications*, **2005**, 135, 57-61	1.6	3
47	Nanometric artificial structuring of semiconductor surfaces for crystalline growth. *Comptes Rendus Physique*, **2005**, 6, 105-116	1.4	12
46	Strain induced effects on the transport properties of metamorphic InAlAs/InGaAs quantum wells. *Thin Solid Films*, **2005**, 484, 400-407	2.2	66
45	Selective metal electrodeposition through doping modulation of semiconductor surfaces. *Applied Physics Letters*, **2005**, 86, 133108	3.4	16
44	Spin gap in the two-dimensional electron system of GaAs□AlxGa1□As single heterojunctions in weak magnetic fields. *Physical Review B*, **2005**, 72,	3.3	21
43	Anticrossings of spin-split Landau levels in an InAs two-dimensional electron gas with spin-orbit coupling. *Physical Review B*, **2005**, 71,	3.3	25
42	Evidence of material mixing during local anodic oxidation nanolithography. *Journal of Applied Physics*, **2005**, 98, 114303	2.5	9
41	Interedge strong-to-weak scattering evolution at a constriction in the fractional quantum Hall regime. *Physical Review Letters*, **2004**, 93, 046801	7.4	51
40	Quasi-particle tunneling between fractional quantum Hall edges. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 22, 185-188	3	4
39	Deep levels in MBE grown AlGaAs/GaAs heterostructures. *Microelectronic Engineering*, **2004**, 73-74, 954-959	2.3	4
38	Electron-phonon coupling in the two-phonon mode ternary alloy Al 0.25 In 0.75 As/Ga 0.25 In 0.75 As quantum well. *Europhysics Letters*, **2004**, 67, 1031-1037	1.6	7

37	Magnetotransport in high-g-factor low-density two-dimensional electron systems confined in In0.75Ga0.25As/In0.75Al0.25As quantum wells. *Physical Review B*, **2004**, 69,	3.3	32
36	Microcavity polariton splitting of intersubband transitions. *Physical Review Letters*, **2003**, 90, 116401	7.4	177
35	Improved microwave Hall effect measurements method. *Review of Scientific Instruments*, **2003**, 74, 154-159	1.7	7
34	Nonlinear quasiparticle tunneling between fractional quantum hall edges. *Physical Review Letters*, **2003**, 90, 046805	7.4	50
33	Mechanisms of self-ordering in nonplanar epitaxy of semiconductor nanostructures. *Physical Review B*, **2002**, 65,	3.3	115
32	MORPHOLOGY AND CHEMISTRY OF S-TREATED GaAs(001) SURFACES. *Surface Review and Letters*, **2002**, 09, 413-423	1.1	1
31	Mapping of non-planar surfaces and film conformality by alpha-particle energy loss spectroscopy. *Nuclear Instruments & Methods in Physics Research B*, **2000**, 170, 483-488	1.2	4
30	Separation of strain and quantum-confinement effects in the optical spectra of quantum wires. *Physical Review B*, **2000**, 61, 4488-4491	3.3	13
29	Formation of semiconductor vertical quantum barriers by epitaxial growth on corrugated surfaces. *Physical Review B*, **2000**, 61, 7223-7226	3.3	10
28	Formation of low-dimensional semiconductor nanostructures on corrugated surfaces **1999**, 141-150		
27	Self-ordered nanostructures grown by organometallic chemical vapor deposition on V-grooved substrates: experiments and Monte-Carlo simulations. *Microelectronics Journal*, **1999**, 30, 461-466	1.8	13
26	Mechanism of self-limiting epitaxial growth on nonplanar substrates. *Journal of Crystal Growth*, **1999**, 201-202, 62-66	1.6	20
25	Organometallic chemical vapor deposition of V-groove InGaAs/GaAs quantum wires incorporated in planar Bragg microcavities. *Journal of Crystal Growth*, **1999**, 207, 161-173	1.6	10
24	Mechanisms of self-ordering of nanostructures in nonplanar OMCVD growth. *Journal of Crystal Growth*, **1998**, 195, 596-602	1.6	6
23	Surface and interface properties of quantum nanostructures grown on nonplanar substrates. *Applied Surface Science*, **1998**, 123-124, 674-681	6.7	15
22	Structure and optical properties of V-groove quantum wire superlattices. *Physica E: Low-Dimensional Systems and Nanostructures*, **1998**, 2, 954-958	3	9
21	Self-ordering and confinement in strained InGaAs/AlGaAs V-groove quantum wires grown by low-pressure organometallic chemical vapor deposition. *Applied Physics Letters*, **1998**, 72, 701-703	3.4	27
20	Self-ordering of quantum-wire superlattices on V-grooved substrates. *Physical Review B*, **1998**, 57, R9416-R9419	3.3	32

19	Mechanisms of Self-Ordering of Quantum Nanostructures Grown on Nonplanar Surfaces. *Physical Review Letters*, **1998**, 81, 2962-2965	7.4	124
18	Carrier quantum confinement in self-ordered AlxGa1−xAs V-groove quantum wells. *Physical Review B*, **1997**, 56, R7096-R7099	3.3	15
17	Self-limiting growth of GaAs surfaces on nonplanar substrates. *Applied Physics Letters*, **1997**, 71, 1831-1833	3.4	24
16	Low-pressure OMCVD growth of AlGaAs vertical quantum wells on non-planar substrates. *Journal of Crystal Growth*, **1997**, 170, 600-604	1.6	12
15	Addendum to "Low-pressure OMCVD growth of AlGaAs vertical quantum wells on non-planar substrates" [J. Crystal Growth 170 (1997) 600]. *Journal of Crystal Growth*, **1997**, 181, 318-319	1.6	
14	Self-limiting OMCVD growth of GaAs on V-grooved substrates with application to InGaAs/GaAs quantum wires. *Journal of Electronic Materials*, **1997**, 26, 1194-1198	1.9	20
13	Step ordering during OMCVD growth on non-planar substrates. *Journal of Crystal Growth*, **1997**, 170, 689-694	1.6	11
12	Self-ordering mechanism of quantum wires grown on nonplanar substrates. *Solid-State Electronics*, **1996**, 40, 815-818	1.7	21
11	Cross-sectional atomic force imaging of semiconductor heterostructures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1996**, 37, 83-88	3.1	4
10	Atomic force microscopy of III–V nanostructures in air. *Applied Surface Science*, **1996**, 104-105, 529-538	6.7	12
9	Structure and formation mechanisms of AlGaAs V-groove vertical quantum wells grown by low pressure organometallic chemical vapor deposition. *Applied Physics Letters*, **1996**, 69, 2710-2712	3.4	39
8	Seeded self-ordering of GaAs/AlGaAs quantum wires on non-planar substrates. *Microelectronics Journal*, **1995**, 26, 881-886	1.8	15
7	Low-pressure organometallic chemical vapor deposition of quantum wires on V-grooved substrates. *Applied Physics Letters*, **1995**, 67, 3673-3675	3.4	108
6	Lack of band-offset transitivity for semiconductor heterojunctions with polar orientation: ZnSe-Ge(001), Ge-GaAs(001), and ZnSe-GaAs(001). *Physical Review B*, **1994**, 50, 11723-11729	3.3	30
5	Silicon-induced local interface dipole in Al/GaAs(001) Schottky diodes. *Applied Physics Letters*, **1994**, 64, 988-990	3.4	29
4	Band offsets and strain in CdTe-GaAs heterostructures. *Physical Review B*, **1993**, 48, 8899-8910	3.3	25
3	Nonmagnetic-semimagnetic semiconductor heterostructures: Ge-Cd1-xMnxTe(110). *Physical Review B*, **1993**, 48, 4545-4551	3.3	9
2	Microscopic capacitors and neutral interfaces in III-V/IV/III-V semiconductor heterostructures. *Physical Review Letters*, **1992**, 69, 1283-1286	7.4	48

1 AlAs-GaAs heterojunction engineering by means of group-IV elemental interface layers. *Physical Review B*, **1992**, 45, 4528-4531 3.3 41