

Giorgio Biasiol

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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	Sub-cycle switch-on of ultrastrong light-matter interaction. <i>Nature</i> , 2009 , 458, 178-81	50.4	384
179	Signatures of the ultrastrong light-matter coupling regime. <i>Physical Review B</i> , 2009 , 79,	3.3	219
178	Microcavity polariton splitting of intersubband transitions. <i>Physical Review Letters</i> , 2003 , 90, 116401	7.4	177
177	Mechanisms of Self-Ordering of Quantum Nanostructures Grown on Nonplanar Surfaces. <i>Physical Review Letters</i> , 1998 , 81, 2962-2965	7.4	124
176	Mechanisms of self-ordering in nonplanar epitaxy of semiconductor nanostructures. <i>Physical Review B</i> , 2002 , 65,	3.3	115
175	Low-pressure organometallic chemical vapor deposition of quantum wires on V-grooved substrates. <i>Applied Physics Letters</i> , 1995 , 67, 3673-3675	3.4	108
174	Integration of site-controlled pyramidal quantum dots and photonic crystal membrane cavities. <i>Applied Physics Letters</i> , 2008 , 92, 263101	3.4	79
173	Phonon-mediated coupling of InGaAs/GaAs quantum-dot excitons to photonic crystal cavities. <i>Physical Review Letters</i> , 2011 , 106, 227402	7.4	72
172	Strain induced effects on the transport properties of metamorphic InAlAs/InGaAs quantum wells. <i>Thin Solid Films</i> , 2005 , 484, 400-407	2.2	66
171	Electrical control of polariton coupling in intersubband microcavities. <i>Applied Physics Letters</i> , 2005 , 87, 051105	3.4	59
170	Antenna-coupled microcavities for enhanced infrared photo-detection. <i>Applied Physics Letters</i> , 2014 , 104, 031113	3.4	54
169	Compositional mapping of semiconductor quantum dots and rings. <i>Physics Reports</i> , 2011 , 500, 117-173	27.7	54
168	Perfect energy-feeding into strongly coupled systems and interferometric control of polariton absorption. <i>Nature Physics</i> , 2014 , 10, 830-834	16.2	52
167	Interedge strong-to-weak scattering evolution at a constriction in the fractional quantum Hall regime. <i>Physical Review Letters</i> , 2004 , 93, 046801	7.4	51
166	Nonlinear quasiparticle tunneling between fractional quantum hall edges. <i>Physical Review Letters</i> , 2003 , 90, 046805	7.4	50
165	Microscopic capacitors and neutral interfaces in III-V/IV/III-V semiconductor heterostructures. <i>Physical Review Letters</i> , 1992 , 69, 1283-1286	7.4	48
164	AlAs-GaAs heterojunction engineering by means of group-IV elemental interface layers. <i>Physical Review B</i> , 1992 , 45, 4528-4531	3.3	41

163	Controlled coupling of spin-resolved quantum Hall edge states. <i>Physical Review Letters</i> , 2011 , 107, 236804	4	40
162	Structure and formation mechanisms of AlGaAs V-groove vertical quantum wells grown by low pressure organometallic chemical vapor deposition. <i>Applied Physics Letters</i> , 1996 , 69, 2710-2712	3-4	39
161	First observation of the quantized exciton-polariton field and effect of interactions on a single polariton. <i>Science Advances</i> , 2018 , 4, eaao6814	14-3	34
160	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. <i>Applied Physics Letters</i> , 2011 , 98, 231114	3-4	32
159	Magnetotransport in high-g-factor low-density two-dimensional electron systems confined in In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As quantum wells. <i>Physical Review B</i> , 2004 , 69,	3-3	32
158	Self-ordering of quantum-wire superlattices on V-grooved substrates. <i>Physical Review B</i> , 1998 , 57, R9416-R9419	3-3	32
157	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. <i>Physical Review B</i> , 2012 , 85,	3-3	31
156	Extremely sub-wavelength THz metal-dielectric wire microcavities. <i>Optics Express</i> , 2012 , 20, 29121-30	3-3	31
155	Tunnel-assisted manipulation of intersubband polaritons in asymmetric coupled quantum wells. <i>Applied Physics Letters</i> , 2006 , 89, 171109	3-4	31
154	Ultra-subwavelength resonators for high temperature high performance quantum detectors. <i>New Journal of Physics</i> , 2016 , 18, 113016	2-9	30
153	Lack of band-offset transitivity for semiconductor heterojunctions with polar orientation: ZnSe-Ge(001), Ge-GaAs(001), and ZnSe-GaAs(001). <i>Physical Review B</i> , 1994 , 50, 11723-11729	3-3	30
152	Silicon-induced local interface dipole in Al/GaAs(001) Schottky diodes. <i>Applied Physics Letters</i> , 1994 , 64, 988-990	3-4	29
151	Surface compositional gradients of InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2005 , 87, 223106	3-4	28
150	Self-ordering and confinement in strained InGaAs/AlGaAs V-groove quantum wires grown by low-pressure organometallic chemical vapor deposition. <i>Applied Physics Letters</i> , 1998 , 72, 701-703	3-4	27
149	Selective control of edge-channel trajectories by scanning gate microscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1038-1041	3	26
148	Anticrossings of spin-split Landau levels in an InAs two-dimensional electron gas with spin-orbit coupling. <i>Physical Review B</i> , 2005 , 71,	3-3	25
147	Band offsets and strain in CdTe-GaAs heterostructures. <i>Physical Review B</i> , 1993 , 48, 8899-8910	3-3	25
146	Spatially resolved analysis of edge-channel equilibration in quantum Hall circuits. <i>Physical Review B</i> , 2011 , 83,	3-3	24

- ¹⁴⁵ Imaging fractional incompressible stripes in integer quantum Hall systems. *Physical Review Letters*, **2012**, 108, 246801 7.4 24
- ¹⁴⁴ Self-limiting growth of GaAs surfaces on nonplanar substrates. *Applied Physics Letters*, **1997**, 71, 1831-1833 3.4 24
- ¹⁴³ Tunable Nonequilibrium Luttinger Liquid Based on Counterpropagating Edge Channels. *Physical Review Letters*, **2014**, 112, 7.4 22
- ¹⁴² Correlation-induced single-flux-quantum penetration in quantum rings. *Nature Physics*, **2010**, 6, 173-177 16.2 22
- ¹⁴¹ Intersubband polaritons in a one-dimensional surface plasmon photonic crystal. *Applied Physics Letters*, **2010**, 97, 231123 3.4 22
- ¹⁴⁰ Direct measurements of fractional quantum Hall effect gaps. *Physical Review Letters*, **2007**, 99, 086802 7.4 22
- ¹³⁹ Cavity polaritons from excited-subband transitions. *Applied Physics Letters*, **2007**, 91, 231118 3.4 22
- ¹³⁸ Impact of classical forces and decoherence in multiterminal Aharonov-Bohm networks. *Physical Review B*, **2009**, 79, 3.3 21
- ¹³⁷ 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
- ¹³⁶ Spin gap in the two-dimensional electron system of GaAs_{1-x}Ga_{1-x}As single heterojunctions in weak magnetic fields. *Physical Review B*, **2005**, 72, 3.3 21
- ¹³⁵ Self-ordering mechanism of quantum wires grown on nonplanar substrates. *Solid-State Electronics*, **1996**, 40, 815-818 1.7 21
- ¹³⁴ 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
- ¹³³ Mechanism of self-limiting epitaxial growth on nonplanar substrates. *Journal of Crystal Growth*, **1999**, 201-202, 62-66 1.6 20
- ¹³² Interferometric control of absorption in thin plasmonic metamaterials: general two port theory and broadband operation. *Optics Express*, **2015**, 23, 9202-10 3.3 19
- ¹³¹ Electrostatic tailoring of magnetic interference in quantum point contact ballistic Josephson junctions. *Physical Review B*, **2013**, 87, 3.3 19
- ¹³⁰ Tuning nonlinear charge transport between integer and fractional quantum Hall states. *Physical Review Letters*, **2009**, 103, 016802 7.4 19
- ¹²⁹ Toward Quantum Hall Effect in a Josephson Junction. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800222 2.5 18
- ¹²⁸ Ordered systems of site-controlled pyramidal quantum dots incorporated in photonic crystal cavities. *Nanotechnology*, **2011**, 22, 465203 3.4 18

127	Scattering mechanisms in undoped In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As two-dimensional electron gases. <i>Journal of Crystal Growth</i> , 2005 , 278, 538-543	1.6	18
126	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. <i>Physical Review B</i> , 2015 , 91,	3.3	17
125	Kinetics of the evolution of InAs/GaAs quantum dots to quantum rings: A combined x-ray, atomic force microscopy, and photoluminescence study. <i>Physical Review B</i> , 2009 , 80,	3.3	17
124	Ultrafast optical bleaching of intersubband cavity polaritons. <i>Physical Review B</i> , 2012 , 86,	3.3	17
123	Growth of vertical InAs nanowires on heterostructured substrates. <i>Nanotechnology</i> , 2009 , 20, 285303	3.4	16
122	Transport anisotropy in In _{0.75} Ga _{0.25} As two-dimensional electron gases induced by indium concentration modulation. <i>Physical Review B</i> , 2008 , 77,	3.3	16
121	on submicron rings and their application for coherent nanoelectronic devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 53-56	3	16
120	Selective metal electrodeposition through doping modulation of semiconductor surfaces. <i>Applied Physics Letters</i> , 2005 , 86, 133108	3.4	16
119	Mid-infrared intersubband polaritons in dispersive metal-insulator-metal resonators. <i>Applied Physics Letters</i> , 2014 , 105, 081105	3.4	15
118	Energy transport by neutral collective excitations at the quantum Hall edge. <i>Physical Review Letters</i> , 2011 , 106, 256802	7.4	15
117	Proximity effect in a two-dimensional electron gas probed with a lateral quantum dot. <i>Physical Review B</i> , 2011 , 84,	3.3	15
116	Carrier quantum confinement in self-ordered Al _x Ga _{1-x} As V-groove quantum wells. <i>Physical Review B</i> , 1997 , 56, R7096-R7099	3.3	15
115	Surface and interface properties of quantum nanostructures grown on nonplanar substrates. <i>Applied Surface Science</i> , 1998 , 123-124, 674-681	6.7	15
114	Hall nano-probes fabricated by focused ion beam. <i>Nanotechnology</i> , 2006 , 17, 2105-2109	3.4	15
113	Seeded self-ordering of GaAs/AlGaAs quantum wires on non-planar substrates. <i>Microelectronics Journal</i> , 1995 , 26, 881-886	1.8	15
112	Fast amplitude modulation up to 1.5 GHz of mid-IR free-space beams at room-temperature. <i>Nature Communications</i> , 2021 , 12, 799	17.4	15
111	Imaging backscattering through impurity-induced antidots in quantum Hall constrictions. <i>Physical Review B</i> , 2012 , 86,	3.3	14
110	Quantum well infrared photo-detectors operating in the strong light-matter coupling regime. <i>Applied Physics Letters</i> , 2019 , 114, 131104	3.4	13

- 109 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
- 108 Acoustoelectric luminescence from a field-effect n-i-p lateral junction. *Applied Physics Letters*, **2009**, 94, 121103 3.4 13
- 107 Quantum Hall Mach-Zehnder interferometer far beyond equilibrium. *Physical Review B*, **2011**, 84, 3.3 13
- 106 Analysis of line shapes and strong coupling with intersubband transitions in one-dimensional metalodielectric photonic crystal slabs. *Physical Review B*, **2012**, 85, 3.3 13
- 105 Conductive atomic force microscopy of InAs/GaAs quantum rings. *Applied Physics Letters*, **2008**, 92, 192105 3.4 13
- 104 Filling factor dependence of the fractional quantum Hall effect gap. *Physical Review Letters*, **2008**, 100, 196805 7.4 13
- 103 Separation of strain and quantum-confinement effects in the optical spectra of quantum wires. *Physical Review B*, **2000**, 61, 4488-4491 3.3 13
- 102 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
- 101 Immunity of intersubband polaritons to inhomogeneous broadening. *Physical Review B*, **2017**, 96, 3.3 12
- 100 A ballistic quantum ring Josephson interferometer. *Nanotechnology*, **2013**, 24, 245201 3.4 12
- 99 Optical detection of quantum Hall effect of composite fermions and evidence of the $\nu=3/8$ state. *Physical Review B*, **2010**, 81, 3.3 12
- 98 Low-pressure OMCVD growth of AlGaAs vertical quantum wells on non-planar substrates. *Journal of Crystal Growth*, **1997**, 170, 600-604 1.6 12
- 97 Nanometric artificial structuring of semiconductor surfaces for crystalline growth. *Comptes Rendus Physique*, **2005**, 6, 105-116 1.4 12
- 96 Atomic force microscopy of III-V nanostructures in air. *Applied Surface Science*, **1996**, 104-105, 529-538 6.7 12
- 95 Optomechanics of Chiral Dielectric Metasurfaces. *Advanced Optical Materials*, **2020**, 8, 1901507 8.1 12
- 94 Step ordering during OMCVD growth on non-planar substrates. *Journal of Crystal Growth*, **1997**, 170, 689-694 1.6 11
- 93 Full electrostatic control of quantum interference in an extended trenched Josephson junction. *Physical Review B*, **2019**, 99, 3.3 10
- 92 Formation of semiconductor vertical quantum barriers by epitaxial growth on corrugated surfaces. *Physical Review B*, **2000**, 61, 7223-7226 3.3 10

91	Organometallic chemical vapor deposition of V-groove InGaAs/GaAs quantum wires incorporated in planar Bragg microcavities. <i>Journal of Crystal Growth</i> , 1999 , 207, 161-173	1.6	10
90	Excitons bound by photon exchange. <i>Nature Physics</i> , 2021 , 17, 31-35	16.2	10
89	Resonant intersubband polariton-LO phonon scattering in an optically pumped polaritonic device. <i>Applied Physics Letters</i> , 2018 , 112, 191106	3.4	10
88	An Improved Nonlocal History-Dependent Model for Gain and Noise in Avalanche Photodiodes Based on Energy Balance Equation. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1823-1829	2.9	10
87	Saturation and bistability of defect-mode intersubband polaritons. <i>Physical Review B</i> , 2015 , 91,	3.3	9
86	Influence of e-e scattering on the temperature dependence of the resistance of a classical ballistic point contact in a two-dimensional electron system. <i>Physical Review B</i> , 2012 , 86,	3.3	9
85	Impact of electron heating on the equilibration between quantum Hall edge channels. <i>Physical Review B</i> , 2011 , 84,	3.3	9
84	Magnetic field tuning of antiferromagnetic Yb3Pt4. <i>Physical Review B</i> , 2011 , 84,	3.3	9
83	Quantum dot spectroscopy of proximity-induced superconductivity in a two-dimensional electron gas. <i>Applied Physics Letters</i> , 2011 , 98, 132101	3.4	9
82	Structure and optical properties of V-groove quantum wire superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998 , 2, 954-958	3	9
81	Evidence of material mixing during local anodic oxidation nanolithography. <i>Journal of Applied Physics</i> , 2005 , 98, 114303	2.5	9
80	Nonmagnetic-semimagnetic semiconductor heterostructures: Ge-Cd _{1-x} MnxTe(110). <i>Physical Review B</i> , 1993 , 48, 4545-4551	3.3	9
79	Photonic bands, superchirality, and inverse design of a chiral minimal metasurface. <i>Nanophotonics</i> , 2019 , 8, 2291-2301	6.3	9
78	Nonlinear transport and noise thermometry in quasiclassical ballistic point contacts. <i>Physical Review B</i> , 2014 , 90,	3.3	8
77	Nongalvanic primary thermometry of a two-dimensional electron gas. <i>Physical Review B</i> , 2013 , 88,	3.3	8
76	Chemistry and formation process of Ga(Al)As oxide during local anodic oxidation nanolithography. <i>Surface Science</i> , 2006 , 600, 3739-3743	1.8	8
75	Gate controlled coupling of intersubband plasmons. <i>Applied Physics Letters</i> , 2013 , 102, 031102	3.4	7
74	One-dimensional surface-plasmon gratings for the excitation of intersubband polaritons in suspended membranes. <i>Solid State Communications</i> , 2011 , 151, 1725-1727	1.6	7

73	Surface compositional mapping of self-assembled InAs/GaAs quantum rings. <i>Journal of Crystal Growth</i> , 2009 , 311, 1764-1766	1.6	7
72	Composition uniformity of site-controlled InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2011 , 323, 176-179	1.6	7
71	Switching ultrastrong light-matter coupling on a subcycle scale. <i>Journal of Applied Physics</i> , 2011 , 109, 102418	2.5	7
70	Quantum Hall Mach-Zehnder interferometer at fractional filling factors. <i>Europhysics Letters</i> , 2012 , 100, 67009	1.6	7
69	Relevant energy scale in hybrid mesoscopic Josephson junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	7
68	Morphology and composition of InAs/GaAs quantum dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1721-5	1.3	7
67	Improved microwave Hall effect measurements method. <i>Review of Scientific Instruments</i> , 2003 , 74, 154-159	1.5	7
66	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. <i>Europhysics Letters</i> , 2004 , 67, 1031-1037	1.6	7
65	Energy spectrum reconstruction at the edge of a two-dimensional electron system with strong spin-orbit coupling. <i>Physical Review B</i> , 2012 , 86,	3.3	6
64	Circularly polarized resonant Rayleigh scattering and Skyrmions in the $\nu = 1$ quantum Hall ferromagnet. <i>Physical Review B</i> , 2011 , 83,	3.3	6
63	Mechanisms of self-ordering of nanostructures in nonplanar OMCVD growth. <i>Journal of Crystal Growth</i> , 1998 , 195, 596-602	1.6	6
62	X-ray induced variation of the chemistry of GaAs/AlAs oxide nanostructures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 246, 39-44	1.2	6
61	Scanning gate imaging of quantum point contacts and the origin of the 0.7 anomaly. <i>Nano Research</i> , 2015 , 8, 948-956	10	5
60	Andreev reflection at the edge of a two-dimensional electron system with strong spin-orbit coupling. <i>JETP Letters</i> , 2013 , 98, 421-426	1.2	5
59	Current-induced magnetization dynamics at the edge of a two-dimensional electron system with strong spin-orbit coupling. <i>Physical Review B</i> , 2014 , 89,	3.3	5
58	A ballistic two-dimensional-electron-gas Andreev interferometer. <i>Applied Physics Letters</i> , 2014 , 104, 242604	3.4	5
57	Singlet-triplet transition in a few-electron lateral In _{0.75} Ga _{0.25} As/In _{0.75} Al _{0.25} As quantum dot. <i>Applied Physics Letters</i> , 2010 , 96, 142107	3.4	5
56	Interference effects in transport across a single incompressible strip at the edge of the fractional quantum Hall system. <i>Physical Review B</i> , 2009 , 79,	3.3	5

55	Bunch by bunch beam monitoring in 3rd and 4th generation light sources by means of single crystal diamond detectors and quantum well devices 2012 ,		5
54	Gain and noise in GaAs/AlGaAs avalanche photodiodes with thin multiplication regions. <i>Journal of Instrumentation</i> , 2019 , 14, C01003-C01003	1	5
53	Photonic bands and defect modes in metallo-dielectric photonic crystal slabs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1451	1.7	4
52	Spin transition in the fractional quantum Hall regime: Effect of the extent of the wave function. <i>Physical Review B</i> , 2013 , 87,	3.3	4
51	Polarization properties and disorder effects in H3 photonic crystal cavities incorporating site-controlled, high-symmetry quantum dot arrays. <i>Applied Physics Letters</i> , 2015 , 107, 031106	3.4	4
50	Local investigation of the energy gap within the incompressible strip in the quantum Hall regime. <i>JETP Letters</i> , 2010 , 92, 67-70	1.2	4
49	Quasi-particle tunneling between fractional quantum Hall edges. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 185-188	3	4
48	Deep levels in MBE grown AlGaAs/GaAs heterostructures. <i>Microelectronic Engineering</i> , 2004 , 73-74, 954-959	3.5	4
47	Mapping of non-planar surfaces and film conformality by alpha-particle energy loss spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 170, 483-488	1.2	4
46	Cross-sectional atomic force imaging of semiconductor heterostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996 , 37, 83-88	3.1	4
45	Photoemission Microscopy Studies of Quantum Dots and Rings. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 20-33	1.3	4
44	III-V on CaF: a possible waveguiding platform for mid-IR photonic devices. <i>Optics Express</i> , 2019 , 27, 1672-1682	3.9	4
43	Magnetic-Field-Dependent Equilibration of Fractional Quantum Hall Edge Modes. <i>Physical Review Letters</i> , 2020 , 125, 076802	7.4	4
42	Site-Control of InAs/GaAs Quantum Dots with Indium-Assisted Deoxidation. <i>Materials</i> , 2016 , 9,	3.5	4
41	Integrated architecture for the electrical detection of plasmonic resonances based on high electron mobility photo-transistors. <i>Nanoscale</i> , 2014 , 6, 1390-7	7.7	3
40	Fast pixelated quantum-well-based sensor for multi-wavelength photon detection. <i>Journal of Instrumentation</i> , 2014 , 9, C05034-C05034	1	3
39	Towards an Electronic Interferometer based on Spin-Resolved Quantum Hall Edge States. <i>Journal of Physics: Conference Series</i> , 2013 , 456, 012019	0.3	3
38	Cantilever deflection measurement and actuation by an interdigitated transducer. <i>Applied Physics Letters</i> , 2010 , 96, 173505	3.4	3

37	Controlling polariton coupling in intersubband microcavities. <i>Superlattices and Microstructures</i> , 2007 , 41, 308-312	2.8	3
36	Focused ion beam patterned Hall nano-sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2752-2754	2.8	3
35	Transport anisotropy in InGaAs 2D electron gases. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1392-1394	3	3
34	Spin susceptibility of two-dimensional hole gases in GaAs/AlGaAs heterostructures. <i>Solid State Communications</i> , 2005 , 135, 57-61	1.6	3
33	Picosecond pump-probe X-ray scattering at the Elettra SAXS beamline. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 51-59	2.4	3
32	Departure from the Babinet principle in metasurfaces supported by subwavelength dielectric slabs. <i>Optics Letters</i> , 2020 , 45, 3402-3405	3	3
31	Evidence of Intersubband Linewidth Narrowing Using Growth Interruption Technique. <i>Photonics</i> , 2019 , 6, 38	2.2	2
30	Position-sensitive multi-wavelength photon detectors based on epitaxial InGaAs/InAlAs quantum wells. <i>Journal of Crystal Growth</i> , 2015 , 425, 341-345	1.6	2
29	Broadband Dynamic Polarization Conversion in Optomechanical Metasurfaces. <i>Frontiers in Physics</i> , 2020 , 7,	3.9	2
28	Position sensitive photon detectors using epitaxial InGaAs/InAlAs quantum wells. <i>Journal of Instrumentation</i> , 2014 , 9, C12043-C12043	1	2
27	Trion confinement and exciton shrinkage in the 2DEG at high magnetic fields. <i>Solid State Communications</i> , 2012 , 152, 1123-1126	1.6	2
26	Fast, multi-wavelength, efficiency-enhanced pixelated devices based on InGaAs/InAlAs quantum-well. <i>Journal of Instrumentation</i> , 2015 , 10, C03009-C03009	1	2
25	Surface compositional profiles of self-assembled InAs/GaAs quantum rings 2010 ,		2
24	How fast electrons and photons mix: Sub-cycle switching of intersubband cavity polaritons. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012060	0.3	2
23	Structural and Magnetic Properties of Epitaxial Fe and Ni Thin Films Grown on n-AlGaAs(001) Using Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, D43		2
22	Magnetic field sensitivity of In _{0.75} Ga _{0.25} As Hall nanoprobe. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 147, 148-151	3.1	2
21	Surface Concentration Mapping of InAs/GaAs Quantum Dots. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
20	Magnetoresistively detected electron spin resonance in low-density two-dimensional electron gas in GaAs-AlGaAs single quantum wells. <i>IEEE Nanotechnology Magazine</i> , 2005 , 4, 100-105	2.6	2

19	Optimization of GaAs/AlGaAs staircase avalanche photodiodes accounting for both electron and hole impact ionization. <i>Solid-State Electronics</i> , 2020 , 168, 107728	1.7	2
18	Chiral Dielectric Metasurfaces: Optomechanics of Chiral Dielectric Metasurfaces (Advanced Optical Materials 4/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070016	8.1	1
17	Classical Effects in the Weak-Field Magnetoresistance of InGaAs/InAlAs Quantum Wells. <i>JETP Letters</i> , 2018 , 107, 320-323	1.2	1
16	III/V site-controlled quantum dots on Si patterned by nanoimprint lithography. <i>Journal of Crystal Growth</i> , 2016 , 437, 59-62	1.6	1
15	Double-side pixelated X-ray detector based on metamorphic InGaAs/InAlAs quantum well. <i>Journal of Instrumentation</i> , 2019 , 14, C01014-C01014	1	1
14	Influence of Γ -doping on the behaviour of GaAs/AlGaAs SAM-APDs for synchrotron radiation. <i>Journal of Instrumentation</i> , 2017 , 12, C11017-C11017	1	1
13	Optical probing of the metal-to-insulator transition in a two-dimensional high-mobility electron gas. <i>New Journal of Physics</i> , 2011 , 13, 063003	2.9	1
12	Aharonov-Bohm effect of quantum Hall edge channels. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1470-1472	3	1
11	Correlated electron states at level crossings of bilayer two-dimensional electron systems in tilted magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 179-182	3	1
10	MORPHOLOGY AND CHEMISTRY OF S-TREATED GaAs(001) SURFACES. <i>Surface Review and Letters</i> , 2002 , 09, 413-423	1.1	1
9	Investigation of InAs-based devices for topological applications 2019 ,		1
8	An Improved Random Path Length Algorithm for p-i-n and Staircase Avalanche Photodiodes 2018 ,		1
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