

# Christian Heyn

## List of Publications by Year in descending order

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246  
papers

4,334  
citations

125106

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251  
docs citations

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times ranked

3017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Al and Ga Droplet Nucleation during Droplet Epitaxy or Droplet Etching. <i>Nanomaterials</i> , 2021, 11, 468.	1.9	3
2	Electronic structure of vertically coupled quantum dot-ring heterostructures under applied electromagnetic probes. A finite-element approach. <i>Scientific Reports</i> , 2021, 11, 4015.	1.6	10
3	Luminescence from Droplet-Etched GaAs Quantum Dots at and Close to Room Temperature. <i>Nanomaterials</i> , 2021, 11, 690.	1.9	3
4	Design and operation of a portable micro-photoluminescence spectrometer for education on semiconductor quantum structures and graphene sheets. <i>Review of Scientific Instruments</i> , 2021, 92, 053905.	0.6	1
5	Exciton states in conical quantum dots under applied electric and magnetic fields. <i>Optics and Laser Technology</i> , 2021, 139, 106953.	2.2	28
6	Charge Tunable GaAs Quantum Dots in a Photonic n-i-p Diode. <i>Nanomaterials</i> , 2021, 11, 2703.	1.9	6
7	Shape-Dependent Stark Shift and Emission-Line Broadening of Quantum Dots and Rings. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19809-19816.	1.5	9
8	Donor impurity related optical and electronic properties of cylindrical GaAs-Al <sub>x</sub> Ga <sub>1-x</sub> As quantum dots under tilted electric and magnetic fields. <i>Scientific Reports</i> , 2020, 10, 9155.	1.6	42
9	Field-Controlled Quantum Dot to Ring Transformation in Wavefunction Tunable Cone-Shell Quantum Structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800245.	1.2	9
10	Alloying during local droplet etching of AlGaAs surfaces with aluminium. <i>Journal of Applied Physics</i> , 2019, 125, 025306.	1.1	10
11	Droplet etching with indium – Intermixing and lattice mismatch. <i>Journal of Crystal Growth</i> , 2019, 512, 219-222.	0.7	6
12	Optically Active, Self-Assembled Solid-State Nanopores for Single Particle Detection. <i>Biophysical Journal</i> , 2018, 114, 492a.	0.2	0
13	Cap-layer-dependent oxidation of ultrathin cobalt films and its effect on the magnetic contrast in scanning electron microscopy with polarization analysis. <i>Applied Physics Letters</i> , 2018, 113, 172403.	1.5	5
14	Functionalization of Droplet Etching for Quantum Rings. <i>Nanoscience and Technology</i> , 2018, , 139-162.	1.5	0
15	Faceting of local droplet-etched nanoholes in AlGaAs. <i>Physical Review Materials</i> , 2018, 2, .	0.9	4
16	Droplet etching during semiconductor epitaxy for single and coupled quantum structures. , 2018, , .		1
17	Ultra-fast cell counters based on microtubular waveguides. <i>Scientific Reports</i> , 2017, 7, 41584.	1.6	19
18	Droplet etched GaAs quantum dots close to surfaces and metallic interfaces. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	14

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19	GaAs quantum dot molecules filled into droplet etched nanoholes. Journal of Crystal Growth, 2017, 477, 235-238.	0.7	4
20	Excited-state indirect excitons in GaAs quantum dot molecules. Physical Review B, 2017, 96, .	1.1	15
21	Droplet etching of deep nanoholes for filling with self-aligned complex quantum structures. Nanoscale Research Letters, 2016, 11, 282.	3.1	25
22	Role of Arsenic During Aluminum Droplet Etching of Nanoholes in AlGaAs. Nanoscale Research Letters, 2016, 11, 428.	3.1	7
23	Approaching Integrated Hybrid Neural Circuits: Axon Guiding on Optically Active Semiconductor Microtube Arrays. Advanced Materials Interfaces, 2016, 3, 1600746.	1.9	10
24	Optical Microresonators: Approaching Integrated Hybrid Neural Circuits: Axon Guiding on Optically Active Semiconductor Microtube Arrays (Adv. Mater. Interfaces 24/2016). Advanced Materials Interfaces, 2016, 3, .	1.9	0
25	Confinement and inhomogeneous broadening effects in the quantum oscillatory magnetization of quantum dot ensembles. Journal of Physics Condensed Matter, 2016, 28, 045301.	0.7	3
26	Thermal control and generation of charge currents in coupled quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 582-590.	0.8	4
27	Electronic Transport through Conical Nanosized GaAs Pillars. Materials Research Society Symposia Proceedings, 2015, 1735, 117.	0.1	0
28	Micromechanical measurement of beating patterns in the quantum oscillatory chemical potential of InGaAs quantum wells due to spin-orbit coupling. Applied Physics Letters, 2015, 107, 092101.	1.5	2
29	Thermal gating of charge currents with Coulomb coupled quantum dots. New Journal of Physics, 2015, 17, 113003.	1.2	26
30	Congruent evaporation temperature of molecular beam epitaxy grown GaAs (001) determined by local droplet etching. Applied Physics Letters, 2015, 107, .	1.5	15
31	Electrical and terahertz magnetospectroscopy studies of laser-patterned micro- and nanostructures on InAs-based heterostructures. Applied Physics Letters, 2015, 106, 052102.	1.5	4
32	Synthetic neuronal circuits: Optically active semiconductor microtubes as remotely accessible sensors for action potentials. , 2015, , .		2
33	THz Magneto-Photoresponse Spectroscopy of Two-Dimensional Electrons in an InAs/InGaAs/InAlAs Inserted-Channel. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 291-297.	1.2	4
34	Dynamics of mass transport during nanohole drilling by local droplet etching. Nanoscale Research Letters, 2015, 10, 67.	3.1	37
35	The g-factor of quasi-two-dimensional electrons in InAs/InGaAs/InAlAs inserted-channels. Applied Physics Letters, 2015, 107, .	1.5	7
36	Three-terminal energy harvester with coupled quantum dots. Nature Nanotechnology, 2015, 10, 854-858.	15.6	199

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37	Characterization of High Mobility InAs/InGaAs/InAlAs Composite Channels by THz Magneto-Photoresponse Spectroscopy. International Journal of High Speed Electronics and Systems, 2015, 24, 1520004.	0.3	0
38	Local droplet etching " Nanoholes, quantum dots, and air-gap heterostructures. , 2014, , .		0
39	Enhanced quantum oscillatory magnetization and nonequilibrium currents in an interacting two-dimensional electron system in MgZnO/ZnO with repulsive scatterers. Physical Review B, 2014, 89, .	1.1	0
40	Scaling of the structural characteristics of nanoholes created by local droplet etching. Journal of Applied Physics, 2014, 115, .	1.1	26
41	Spin-resolved conductance quantization in InAs. Semiconductor Science and Technology, 2014, 29, 075010.	1.0	6
42	Vertically stacked quantum dot pairs fabricated by nanohole filling. Nanotechnology, 2014, 25, 215602.	1.3	10
43	Density limits of high temperature and multiple local droplet etching on AlAs. Journal of Crystal Growth, 2014, 389, 18-22.	0.7	1
44	Electric Properties of Semiconductor Nanopillars. Journal of Electronic Materials, 2014, 43, 1972-1975.	1.0	4
45	Embedded GaAs nanopillars studied by high resolution reciprocal space mapping and SEM. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1319-1324.	0.8	0
46	Thermally controlled widening of droplet etched nanoholes. Nanoscale Research Letters, 2014, 9, 285.	3.1	4
47	Excitonic states in GaAs quantum dots fabricated by local droplet etching. Physical Review B, 2014, 89, .	1.1	34
48	Optical Sensing of Action Potentials in Semiconductor Microtubes using In(Al)GaAs Quantum Wells. Biophysical Journal, 2014, 106, 793a.	0.2	0
49	Guided Growth and Electrical Probing of Neurons on Arrays of Biofunctionalized GaAs/InGaAs Semiconductor Microtubes. Biophysical Journal, 2013, 104, 329a.	0.2	2
50	Frequency anomaly in the Rashba-effect induced magnetization oscillations of a high-mobility two-dimensional electron system. Physical Review B, 2013, 87, .	1.1	10
51	Thermal conductance of nanosize semiconductor pillars. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 161-167.	0.8	5
52	Structural properties of ultra-low density nanoholes for the generation of well-separated GaAs quantum dots. Journal of Crystal Growth, 2013, 378, 442-445.	0.7	5
53	GaAs nanopillars by self-assembled droplet etching. Journal of Crystal Growth, 2013, 378, 446-449.	0.7	2
54	Ballistic thermal point contacts made of GaAs nanopillars. , 2013, , .		0

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55	High excitation power photoluminescence studies of ultra-low density GaAs quantum dots. , 2013, , .		1
56	Diffusion thermopower of a serial double quantum dot. New Journal of Physics, 2013, 15, 123010.	1.2	37
57	Guided neuronal growth on arrays of biofunctionalized GaAs/InGaAs semiconductor microtubes. Applied Physics Letters, 2013, 103, .	1.5	16
58	Quantized conductance and evidence for zitterbewegung in InAs spin filters. Applied Physics Letters, 2013, 102, 212405.	1.5	3
59	Local Droplet Etching: Self-assembled Nanoholes for Quantum Dots and Nanopillars. Lecture Notes in Nanoscale Science and Technology, 2013, , 363-384.	0.4	2
60	Excitonic lifetimes in single GaAs quantum dots fabricated by local droplet etching. New Journal of Physics, 2012, 14, 053004.	1.2	20
61	Thermal Conductance of Ballistic Point Contacts. Physical Review Letters, 2012, 108, 075901.	2.9	20
62	Zero-field thermopower of a thin heterostructure membrane with a two-dimensional electron gas. Physical Review B, 2012, 85, .	1.1	5
63	Highly versatile ultra-low density GaAs quantum dots fabricated by filling of self-assembled nanoholes. Applied Physics Letters, 2012, 101, .	1.5	17
64	Rolled-up nanotechnology for the fabrication of three-dimensional fishnet-type GaAs-metal metamaterials with negative refractive index at near-infrared frequencies. Applied Physics Letters, 2012, 100, .	1.5	22
65	Structural and magnetic properties of Ni <sub>2</sub> MnIn Heusler thin films grown on modulation-doped InAs heterostructures with metamorphic buffer. Journal of Crystal Growth, 2012, 338, 91-95.	0.7	3
66	Light confinement and mode splitting in rolled-up semiconductor microtube bottle resonators. Physical Review B, 2012, 85, .	1.1	60
67	Broadband operation of rolled-up hyperlenses. Physical Review B, 2012, 85, .	1.1	13
68	Thermopower of a 2D Electron Gas in Suspended AlGaAs/GaAs Heterostructures. Journal of Electronic Materials, 2012, 41, 1286-1289.	1.0	4
69	Strain relaxation in metamorphic InAlAs buffers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 762-767.	1.7	3
70	Enhanced transmission in rolled-up hyperlenses utilizing Fabry-Pérot resonances. Applied Physics Letters, 2011, 99, 191905.	1.5	12
71	Gain in three-dimensional metamaterials utilizing semiconductor quantum structures. Physical Review B, 2011, 84, .	1.1	12
72	Cross-sectional transmission electron microscopy of GaAs quantum dots fabricated by filling of droplet-etched nanoholes. Journal of Crystal Growth, 2011, 335, 58-61.	0.7	19

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73	Mechanism and applications of local droplet etching. Journal of Crystal Growth, 2011, 323, 263-266.	0.7	15
74	Suppression of interfacial intermixing between MBE-grown Heusler alloy Ni <sub>2</sub> MnIn and (001)InAs or InAs-HEMT structures. Journal of Crystal Growth, 2011, 323, 368-371.	0.7	4
75	Stacked GaAs quantum dots fabricated by refilling of self-organized nanoholes: optical properties and post-growth annealing. Nanotechnology, 2011, 22, 105603.	1.3	9
76	Elementary excitations in charge-tunable InGaAs quantum dots studied by resonant Raman and resonant photoluminescence spectroscopy. Physical Review B, 2011, 83, .	1.1	2
77	Kinetic model of local droplet etching. Physical Review B, 2011, 83, .	1.1	60
78	Air-gap heterostructures. Applied Physics Letters, 2011, 98, 033105.	1.5	13
79	Self-Assembly of Semiconductor Quantum Rings by Local Droplet Etching. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 62-67.	0.1	9
80	Composition of the $\text{InGaAs}$ -quantum dot, grown by droplet epitaxy. Superlattices and Microstructures, 2010, 48, 351-357.	1.4	12
81	Optical Properties of GaAs Quantum Dots Fabricated by Filling of Self-Assembled Nanoholes. Nanoscale Research Letters, 2010, 5, 576-580.	3.1	37
82	Single-dot Spectroscopy of GaAs Quantum Dots Fabricated by Filling of Self-assembled Nanoholes. Nanoscale Research Letters, 2010, 5, 1633-1636.	3.1	36
83	Advanced techniques for all-electrical spectroscopy on spin caloric phenomena. Solid State Communications, 2010, 150, 492-495.	0.9	5
84	Magnetism in a Mn modulation-doped InAs/InGaAs heterostructure with a two-dimensional hole system. Journal of Applied Physics, 2010, 107, 093711.	1.1	9
85	Optical Modes Excited by Evanescent-Wave-Coupled PbS Nanocrystals in Semiconductor Microtube Bottle Resonators. Nano Letters, 2010, 10, 627-631.	4.5	38
86	Self-Assembly of Quantum Dots and Rings on Semiconductor Surfaces. Nanoscience and Technology, 2010, , 1-24.	1.5	1
87	Origin and limiting mechanism of induced nonequilibrium currents in gated two-dimensional electron systems. Physical Review B, 2009, 80, .	1.1	11
88	Thermionic tunneling through Coulomb barriers in charged self-assembled quantum dots. Physical Review B, 2009, 80, .	1.1	9
89	De Haas-van Alphen effect and energy gaps of a correlated two-dimensional electron system in an AlAs two-valley pseudospin system. Physical Review B, 2009, 80, .	1.1	3
90	Inversion-asymmetry-induced spin splitting observed in the quantum oscillatory magnetization of a two-dimensional electron system. Physical Review B, 2009, 79, .	1.1	25

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91	Local etching of nanoholes and quantum rings with $\text{In}_x\text{Ga}_{1-x}$ droplets. Journal of Applied Physics, 2009, 106, 064315.	1.1	35
92	Time-resolved studies of a rolled-up semiconductor microtube laser. Applied Physics Letters, 2009, 95, 221115.	1.5	29
93	Influence of Ga coverage and As pressure on local droplet etching of nanoholes and quantum rings. Journal of Applied Physics, 2009, 105, .	1.1	40
94	Highly uniform and strain-free GaAs quantum dots fabricated by filling of self-assembled nanoholes. Applied Physics Letters, 2009, 94, .	1.5	122
95	X-ray study of temperature dependent growth of $\text{InAs/AlAs}$ quantum dots. Journal Physics D: Applied Physics, 2009, 42, 155401.	1.3	0
96	Neutron-irradiated Schottky diodes with self-assembled InAs quantum dots: Optical and electrical properties. Journal of Applied Physics, 2009, 105, 104308.	1.1	6
97	Dynamics of self-assembled droplet etching. Applied Physics Letters, 2009, 95, .	1.5	65
98	The RHEED tracking of the droplet epitaxial grown quantum dot and ring structures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 118-121.	1.7	24
99	Characterisation of droplet-epitaxial GaAs/AlGaAs quantum dot and quantum ring systems using grazing incidence X-ray diffraction. Materials Science in Semiconductor Processing, 2009, 12, 75-81.	1.9	0
100	Droplet epitaxy of GaAs quantum dots on (001), vicinal (001), (110), and (311)A GaAs. Journal of Crystal Growth, 2009, 311, 1825-1827.	0.7	14
101	Nanohole formation on AlGaAs surfaces by local droplet etching with gallium. Journal of Crystal Growth, 2009, 311, 1839-1842.	0.7	42
102	Influence of growth temperature on phase and intermixing in $\text{Ni}_2\text{MnIn}$ Heusler films on $\text{InAs}(001)$ . Journal of Crystal Growth, 2009, 311, 2397-2404.	0.7	9
103	Resonant Raman Transitions into Singlet and Triplet States in $\text{InGaAs}$ Quantum Dots Containing Two Electrons. Physical Review Letters, 2009, 103, 037402.	2.9	17
104	Rolled-Up Three-Dimensional Metamaterials with a Tunable Plasma Frequency in the Visible Regime. Physical Review Letters, 2009, 102, 163903.	2.9	94
105	Linear and ultrafast optical spectroscopy in the regime of the quantum Hall effect. Physica Status Solidi (B): Basic Research, 2008, 245, 321-330.	0.7	5
106	MBE-growth of $\text{InAs/GaAs}(001)$ quantum dots at low temperatures. Journal of Crystal Growth, 2008, 310, 4122-4125.	0.7	5
107	Spatial emission characteristics of a semiconductor microtube ring resonator. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1836-1839.	1.3	11
108	Optical Microcavities Formed by Semiconductor Microtubes Using a Bottlelike Geometry. Physical Review Letters, 2008, 101, 127403.	2.9	120

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109	Local droplet etching of nanoholes and rings on GaAs and AlGaAs surfaces. Applied Physics Letters, 2008, 93, .	1.5	89
110	Spatially and energetically resolved optical mapping of self-aligned InAs quantum dots. Semiconductor Science and Technology, 2008, 23, 045016.	1.0	7
111	Suppression of competing tunneling processes in thermally-activated carrier emission on self-assembled InAs quantum dots. Physical Review B, 2008, 77, .	1.1	16
112	Faceting during GaAs quantum dot self-assembly by droplet epitaxy. Applied Physics Letters, 2007, 90, 203105.	1.5	41
113	Imaging correlated wave functions of few-electron quantum dots: Theory and scanning tunneling spectroscopy experiments. Journal of Applied Physics, 2007, 101, 081714.	1.1	18
114	Three dimensionally confined optical modes in quantum-well microtube ring resonators. Physical Review B, 2007, 76, .	1.1	41
115	Magneto-resistance studies on evenly curved Hall bars in InGaAs/GaAs-microtubes. AIP Conference Proceedings, 2007, , .	0.3	1
116	Regimes of GaAs quantum dot self-assembly by droplet epitaxy. Physical Review B, 2007, 76, .	1.1	123
117	Correlation Effects in Wave Function Mapping of Molecular Beam Epitaxy Grown Quantum Dots. Nano Letters, 2007, 7, 2701-2706.	4.5	31
118	InAs-coverage dependence of self-assembled quantum dot size, composition, and density. Applied Physics Letters, 2007, 91, 083107.	1.5	14
119	Optical Microtube Ring Resonators. AIP Conference Proceedings, 2007, , .	0.3	5
120	Shallow HEMTs For Lateral Magnetic Superlattices. AIP Conference Proceedings, 2007, , .	0.3	0
121	Kinetic model of intermixing during self-assembled InAs quantum dot formation. Journal of Crystal Growth, 2007, 301-302, 692-696.	0.7	12
122	Lateral self-arrangement of self-assembled InAs quantum dots by an intentional-induced dislocation network. Journal of Crystal Growth, 2007, 301-302, 759-761.	0.7	3
123	Shape transformation of self-assembled InAs quantum dots by overgrowth with GaAs and AlAs. Journal of Crystal Growth, 2007, 301-302, 748-750.	0.7	6
124	Tunnelling Transient Spectroscopy on self-assembled InAs Quantum Dots. AIP Conference Proceedings, 2007, , .	0.3	1
125	Optical Modes in Semiconductor Microtube Ring Resonators. Physical Review Letters, 2006, 96, 077403.	2.9	204
126	Gate-controlled de Haas-van Alphen effect in an interacting two-dimensional electron system. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 172-175.	1.3	7



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127	Shape transformation of self-assembled InAs quantum dots during overgrowth with AlAs. Journal of Crystal Growth, 2006, 289, 81-88.	0.7	8
128	Experimental evidence of the ideal de Haas-van Alphen effect in a two-dimensional system. Physical Review B, 2006, 73, .	1.1	35
129	Evenly curved two-dimensional electron systems in rolled-up Hall bars. Applied Physics Letters, 2006, 88, 212113.	1.5	32
130	Confined acoustic and optical plasmons in double-layered quantum-wire arrays with strong tunneling. Physical Review B, 2006, 73, .	1.1	1
131	Tunneling emission from self-assembled InAs quantum dots probed with capacitance transients. Physical Review B, 2006, 74, .	1.1	29
132	Simultaneous measurement of the de Haas-van Alphen and the Shubnikov-de Haas effect in a two-dimensional electron system. Physical Review B, 2006, 74, .	1.1	17
133	Geometry-enhanced magnetoresistance of narrow Au-InAs hybrid structures incorporating a two-dimensional electron system. Journal of Applied Physics, 2006, 99, 036102.	1.1	14
134	Electron emission from self-assembled quantum dots in strong magnetic fields. Applied Physics Letters, 2006, 88, 213107.	1.5	10
135	Intermixing in self-assembled InAs quantum dot formation. Journal of Crystal Growth, 2005, 278, 46-50.	0.7	37
136	Magnetization of modulation doped Si/SiGe quantum wells in high magnetic fields. AIP Conference Proceedings, 2005, , .	0.3	0
137	Field effect enhanced carrier-emission from InAs Quantum Dots. AIP Conference Proceedings, 2005, , .	0.3	4
138	Experimental study on far-infrared photoconductivity and magnetoresistance in InAs single quantum wire. AIP Conference Proceedings, 2005, , .	0.3	0
139	Optically pumped lasing from localized states in quantum-well and quantum-dot microdisks. AIP Conference Proceedings, 2005, , .	0.3	0
140	Interlocking mechanism for the fabrication of closed single-walled semiconductor microtubes. Semiconductor Science and Technology, 2005, 20, 402-405.	1.0	13
141	Magnetotransport On Evenly Curved Hall-Bars In InGaAs/GaAs-Microtubes. AIP Conference Proceedings, 2005, , .	0.3	0
142	Magnetotransport in nonplanar two-dimensional electron gases in InAs heterostructures. AIP Conference Proceedings, 2005, , .	0.3	0
143	Photoconductivity of In <sub>x</sub> Al <sub>1-x</sub> As parabolic quantum wells in the optical-phonon regime. Physical Review B, 2005, 71, .	1.1	7
144	Lithographically defined metal-semiconductor-hybrid nanoscrolls. Applied Physics Letters, 2005, 86, 143109.	1.5	51

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145	Direct measurements of the spin and valley splittings in the magnetization of a Si <sup>δ</sup> -SiGe quantum well in tilted magnetic fields. <i>Physical Review B</i> , 2005, 72, .	1.1	35
146	Shutter transients during solid-source epitaxy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2014.	1.6	1
147	PHOTOCONDUCTIVITY- AND MAGNETO-TRANSPORT STUDIES OF SINGLE INAS QUANTUM WIRES. , 2005, , .		0
148	Temperature Regimes of Strain-Induced InAs Quantum Dot Formation. , 2005, , 103-119.		0
149	Charged Excitons in the Quantum Hall Regime: Optical Probe of Fractionally Charged Quasiholes. <i>Advances in Solid State Physics</i> , 2004, , 81-92.	0.8	1
150	Nonplanar two-dimensional electron gases in InAs heterostructures on GaAs. <i>Applied Physics Letters</i> , 2004, 84, 550-552.	1.5	9
151	Charge-state dependence of InAs quantum-dot emission energies. <i>Physical Review B</i> , 2004, 69, .	1.1	55
152	Broadband emission and low absorption in microdisks with AlGaAs quantum wells. <i>Applied Physics Letters</i> , 2004, 84, 1477-1479.	1.5	7
153	Hall magnetometry on a ferromagnetic nanoring. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1623-1624.	1.0	8
154	Spectroscopy of individual AlGaAs microdisks in large periodic arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 830-834.	1.3	0
155	How to probe a fractionally charged quasihole?. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 131-134.	1.3	2
156	Inelastic light scattering on few-electron quantum-dot atoms. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 478-481.	1.3	5
157	Magnetization of GaAs quantum wires with quasi one-dimensional electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 729-732.	1.3	9
158	Preparation of curved two-dimensional electron systems in InGaAs/GaAs-microtubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 23, 274-279.	1.3	46
159	Low-noise magnetic-flux sensors based on the extraordinary magnetoresistance effect. <i>Applied Physics Letters</i> , 2004, 84, 3343-3345.	1.5	19
160	Quantized Dispersion of Two-Dimensional Magnetoplasmons Detected by Photoconductivity Spectroscopy. <i>Physical Review Letters</i> , 2004, 93, 186804.	2.9	23
161	Intrasubband magnetoplasmon LO-phonon coupling in an InAs antidot array. <i>Physical Review B</i> , 2004, 70, .	1.1	3
162	Acoustic plasmons and indirect intersubband excitations in tunneling-coupled GaAs <sup>δ</sup> /Al <sub>x</sub> Ga <sub>1-<i>x</i></sub> As double quantum wells. <i>Physical Review B</i> , 2003, 67, .	1.1	20

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163	Desorption of InAs quantum dots. Journal of Crystal Growth, 2003, 251, 218-222.	0.7	22
164	Ga/In-intermixing and segregation during InAs quantum dot formation. Journal of Crystal Growth, 2003, 251, 140-144.	0.7	18
165	Growth of shallow InAs HEMTs with metamorphic buffer. Journal of Crystal Growth, 2003, 251, 832-836.	0.7	27
166	Electronic properties of etched/regrown heterostructure interfaces. Journal of Crystal Growth, 2003, 251, 96-100.	0.7	0
167	Magneto-resistance of a two-dimensional electron gas with tunable periodic lateral modulation by interdigital gates. Superlattices and Microstructures, 2003, 33, 279-290.	1.4	0
168	Bernstein modes in tunneling-coupled quantum wells. Superlattices and Microstructures, 2003, 33, 301-310.	1.4	3
169	Transport properties of a two-dimensional electron gas in the vicinity of quantum dots in the limit of strong disorder. Physical Review B, 2003, 67, .	1.1	14
170	Spectroscopy of Few-Electron Collective Excitations in Charge-Tunable Artificial Atoms. Physical Review Letters, 2003, 91, 257401.	2.9	30
171	Highly anisotropic electron transport in shallow InGaAs heterostructures. Physical Review B, 2003, 67, .	1.1	26
172	THz collective spin-flip excitation of a two-dimensional electron system. Physical Review B, 2003, 67, .	1.1	40
173	Far-infrared photoconductivity of electrons in an array of nanostructured antidots. Physical Review B, 2003, 68, .	1.1	9
174	Wave-Function Mapping of InAs Quantum Dots by Scanning Tunneling Spectroscopy. Physical Review Letters, 2003, 91, 196804.	2.9	125
175	Induced nonequilibrium currents in the magnetization of mesoscopic dots in the quantum Hall regime. Physical Review B, 2003, 68, .	1.1	15
176	Spin splitting in narrow InAs quantum wells with In <sub>0.75</sub> Ga <sub>0.25</sub> As barrier layers. Applied Physics Letters, 2003, 83, 2181-2183.	1.5	20
177	Optical Probing of a Fractionally Charged Quasihole in an Incompressible Liquid. Physical Review Letters, 2003, 91, 116403.	2.9	26
178	Publisher's Note: Optical Probing of a Fractionally Charged Quasihole in an Incompressible Liquid [Phys. Rev. Lett.91, 116403 (2003)]. Physical Review Letters, 2003, 91, .	2.9	1
179	Bolometric spin effect due to internal spin injection in a two-dimensional electron system. Europhysics Letters, 2003, 63, 576-582.	0.7	9
180	EXTRAORDINARY MAGNETORESISTANCE EFFECT ON METAL FILMS PREPARED BY CLEAVED EDGE OVERGROWTH ON INAS HETEROSTRUCTURES. , 2003, , .		0

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181	Anomalous dispersion of charged excitons in dilute two-dimensional electron systems at low temperatures. <i>Physical Review B</i> , 2002, 66, .	1.1	17
182	Sawtoothlike de Haas-van Alphen oscillations of a two-dimensional electron system. <i>Physical Review B</i> , 2002, 65, .	1.1	51
183	Extraordinary magnetoresistance effect in a microstructured metal-semiconductor hybrid structure. <i>Applied Physics Letters</i> , 2002, 80, 3988-3990.	1.5	36
184	Fabrication of large periodic arrays of AlGaAs microdisks by laser-interference lithography and selective etching. <i>Applied Physics Letters</i> , 2002, 81, 592-594.	1.5	26
185	Magnetocapacitance of quantum wires: Effect of confining potential on one-dimensional subbands and suppression of exchange enhanced factor. <i>Physical Review B</i> , 2002, 65, .	1.1	10
186	Magnetization of semiconductor quantum dots. <i>Journal of Applied Physics</i> , 2002, 91, 6875.	1.1	32
187	Plasmons in tunneling coupled bilayer systems with tunable space symmetry studied by far-infrared spectroscopy. <i>Physical Review B</i> , 2002, 66, .	1.1	13
188	Stability of InAs quantum dots. <i>Physical Review B</i> , 2002, 66, .	1.1	41
189	Oscillator strengths of dark charged excitons at low electron filling factors. <i>Physical Review B</i> , 2002, 65, .	1.1	36
190	Optical Detection of the Charging of InAs Quantum Dots with Different Backgate Configurations. <i>Materials Research Society Symposia Proceedings</i> , 2002, 737, 168.	0.1	0
191	Excitations Below the Kohn Mode; FIR-Absorption in Quantum Dots. <i>Physica Scripta</i> , 2002, T101, 136.	1.2	0
192	Hall and bend-resistance magnetometry on two-micromagnet systems. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2535-2537.	1.2	5
193	De Haas-van Alphen effect in a two-dimensional electron system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 140-143.	1.3	2
194	Bend-resistance nanomagnetometry: spatially resolved magnetization studies in a ferromagnet/semiconductor hybrid structure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 248-251.	1.3	7
195	Inter-dot interaction in an array of elliptical quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 892-895.	1.3	0
196	Optical double resonance of electronic Raman scattering in an AlAs-AlGaAs microcavity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 408-411.	1.3	2
197	Etching temperature dependent mobilities up to at chlorine etched and regrown interfaces. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 653-656.	1.3	3
198	Strain relaxation in high-mobility InAs inserted-channel heterostructures with metamorphic buffer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 1204-1207.	1.3	24

#	ARTICLE	IF	CITATIONS
199	Filling-factor-dependent oscillations of the coupled intersubband plasmon-LO phonon mode in a tunneling coupled-bilayer system. <i>Physical Review B</i> , 2002, 66, .	1.1	3
200	Critical coverage for strain-induced formation of InAs quantum dots. <i>Physical Review B</i> , 2001, 64, .	1.1	63
201	Stray-field investigation on permalloy nanodisks. <i>Journal of Applied Physics</i> , 2001, 90, 6542-6544.	1.1	27
202	Grazing incidence structural characterization of InAs quantum dots on GaAs(001). <i>Applied Surface Science</i> , 2001, 175-176, 606-612.	3.1	9
203	Resonant Inelastic Light Scattering on GaAs-AlGaAs Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 224, 97-100.	0.7	1
204	Electric Field Dependent Zeeman Splitting of Excitons in Diluted Two-Dimensional Electron Systems. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 227, 339-342.	0.7	0
205	Fabrication of quantum wires by in-situ ion etching and MBE overgrowth. <i>Journal of Crystal Growth</i> , 2001, 227-228, 980-984.	0.7	4
206	Formation and size evolution of self-assembled quantum dots. <i>Journal of Crystal Growth</i> , 2001, 227-228, 990-994.	0.7	17
207	Structural characterization of self-assembled InAs quantum dots grown by MBE. <i>Journal of Crystal Growth</i> , 2001, 227-228, 1020-1024.	0.7	7
208	Far-infrared excitations below the Kohn mode: Internal motion in a quantum dot. <i>Physical Review B</i> , 2001, 63, .	1.1	26
209	Selectively enhanced inelastic light scattering of electronic excitations in a semiconductor microcavity. <i>Physical Review B</i> , 2001, 63, .	1.1	6
210	Anisotropic island growth during submonolayer epitaxy. <i>Physical Review B</i> , 2001, 63, .	1.1	18
211	Far-infrared excitations in rectangular antidot arrays. <i>Physical Review B</i> , 2001, 63, .	1.1	7
212	Character of electronic excitations in GaAs-AlGaAs quantum structures. <i>Springer Proceedings in Physics</i> , 2001, , 713-714.	0.1	0
213	Formation and dissolution of InAs quantum dots on GaAs. <i>Journal of Crystal Growth</i> , 2000, 210, 421-428.	0.7	47
214	Pillow-shape motion in antidot-arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 507-509.	1.3	0
215	Coulomb-interaction-induced crossover from confined to bulk quantum-dot states in a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 364-366.	1.3	0
216	Spin-dependent exchange and correlation effects on the orbital magnetization of two-dimensional electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 731-734.	1.3	1

#	ARTICLE	IF	CITATIONS
217	Effect of tilted magnetic fields on bistable nanomagnets in hybrid semiconductor/ferromagnet devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 210, 138-142.	1.0	15
218	Distribution and shape of self-assembled InAs quantum dots grown on GaAs (001). <i>Pure and Applied Chemistry</i> , 2000, 72, 199-207.	0.9	10
219	Characterization of in situ etched and molecular beam epitaxy regrown GaAs interfaces using capacitance-voltage measurements, far infrared spectroscopy, and magnetotransport measurements. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1562.	1.6	3
220	Bernstein modes in density-modulated two-dimensional electron systems and quantum dots. <i>Physical Review B</i> , 2000, 61, R16319-R16322.	1.1	7
221	Intersection and anticrossing of far-infrared modes in elliptical quantum dots with tunable ellipticity. <i>Physical Review B</i> , 2000, 63, .	1.1	9
222	Strain status of self-assembled InAs quantum dots. <i>Applied Physics Letters</i> , 2000, 77, 1295-1297.	1.5	24
223	Excitation of two-dimensional plasmons with cross-grating couplers. <i>Physical Review B</i> , 2000, 62, 15345-15347.	1.1	7
224	Ordering and shape of self-assembled InAs quantum dots on GaAs(001). <i>Applied Physics Letters</i> , 2000, 76, 2229-2231.	1.5	41
225	Micromechanical cantilever magnetometer with an integrated two-dimensional electron system. <i>Applied Physics Letters</i> , 2000, 76, 3564-3566.	1.5	55
226	Transport properties of modulation-doped InAs-inserted-channel In <sub>0.75</sub> Al <sub>0.25</sub> As/In <sub>0.75</sub> Ga <sub>0.25</sub> As structures grown on GaAs substrates. <i>Applied Physics Letters</i> , 2000, 77, 3227-3229.	1.5	65
227	Magnetization of small arrays of interacting single-domain particles. <i>Journal of Applied Physics</i> , 1999, 85, 6175-6177.	1.1	36
228	Anticrossing of the one-dimensional plasmon and the Kohn's mode in periodically modulated quantum wires. <i>Physical Review B</i> , 1999, 60, R13974-R13976.	1.1	3
229	Anticyclotron motion in antidot arrays. <i>Physical Review B</i> , 1999, 60, 10680-10682.	1.1	11
230	Modelling of compound semiconductor epitaxy. <i>Journal of Crystal Growth</i> , 1999, 201-202, 67-72.	0.7	10
231	Coupled double parabolic quantum wells grown with the analogue technique. <i>Journal of Crystal Growth</i> , 1999, 201-202, 790-794.	0.7	0
232	X-Ray Interface Characterization of Buried InAs Layers on GaAs (001). <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 791-795.	0.7	3
233	Phase Sensitive Resonant Ultrafast Reflection from GaAs Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 307-314.	0.7	7
234	Edge spin-density modes in quantum dots in a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 619-622.	1.3	1

#	ARTICLE	IF	CITATIONS
235	Correlation between island-formation kinetics, surface roughening, and RHEED oscillation damping during GaAs homoepitaxy. <i>Physical Review B</i> , 1997, 56, 13483-13489.	1.1	24
236	High-sensitive superconducting magnetometry on a two-dimensional electron gas up to 10 Tesla. <i>Applied Physics Letters</i> , 1997, 70, 3305-3307.	1.5	45
237	Simulation of GaAs growth and surface recovery with respect to gallium and arsenic surface kinetics. <i>Physical Review B</i> , 1997, 55, 7034-7038.	1.1	35
238	SQUID-susceptometry up to 10 Tesla: An improved method for magnetization studies on a two-dimensional electron system. <i>Applied Superconductivity</i> , 1997, 5, 261-267.	0.5	4
239	Magneto-Optical Investigation of Excitons in Narrow GaAs/AlGaAs Quantum Wires. <i>Physica Status Solidi A</i> , 1997, 164, 325-329.	1.7	3
240	Routine measurement of the absolute As <sub>4</sub> flux in a molecular beam epitaxy system with conventional RHEED equipment. <i>Applied Surface Science</i> , 1996, 100-101, 494-497.	3.1	2
241	Simultaneous reflection high-energy electron diffraction oscillations and mass spectroscopy investigations during molecular beam epitaxy growth of (001) GaAs - smooth surfaces or stoichiometric films?. <i>Journal of Crystal Growth</i> , 1995, 150, 117-122.	0.7	7
242	Flux control and calibration of an As effusion cell in a molecular beam epitaxy system for GaAs and AlGaAs with a quadrupole mass spectrometer. <i>Journal of Crystal Growth</i> , 1993, 133, 241-245.	0.7	11
243	Electronic properties of etched-regrown heterostructure interfaces. , 0, , .		0
244	Desorption of InAs quantum dots. , 0, , .		0
245	Growth of shallow InAs HEMTs with metamorphic buffer. , 0, , .		0
246	Ga/In-intermixing and segregation during InAs quantum dot formation. , 0, , .		0