Axel Lorke

List of Publications by Year
in descending order

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218 papers	8,268 citations	66234 42 h-index	51492 86 g-index
226 all docs	226 docs citations	226 times ranked	5870 citing authors

#	Article	IF	Citations
1	Pushing the Limits in Real-Time Measurements of Quantum Dynamics. Physical Review Letters, 2022, 128, 087701.	2.9	12
2	Laserâ€•and Ionâ€Induced Defect Engineering in WS 2 Monolayers. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000466.	1.2	6
3	Internal photoeffect from a single quantum emitter. Physical Review B, 2021, 103, .	1.1	3
4	Towards field-effect controlled graphene-enhanced Raman spectroscopy of cobalt octaethylporphyrin molecules. Nanotechnology, 2021, 32, 205702.	1.3	1
5	Quantum Sensor for Nanoscale Defect Characterization. Physical Review Applied, 2021, 15, .	1.5	6
6	Boiling eggs, radiation damage, and the Arrhenius plot. Physics Today, 2021, 74, 66-67.	0.3	2
7	Quantum polyspectra for modeling and evaluating quantum transport measurements: A unifying approach to the strong and weak measurement regime. Physical Review Research, 2021, 3, .	1.3	4
8	A monolithic, back-gated diamond field-effect transistor for tunable color centers. Diamond and Related Materials, 2021, 119, 108597.	1.8	1
9	Electronic reconstruction and charge transfer in strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub> double perovskite. Physical Review B, 2021, 104, .	1.1	1
10	Tailoring of Bound Exciton Photoluminescence Emission in WS₂ Monolayers. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900355.	1.2	13
11	One-step synthesis of carbon-supported electrocatalysts. Beilstein Journal of Nanotechnology, 2020, 11, 1419-1431.	1.5	2
12	Defect spectroscopy on the dielectric material aluminum oxide. Scientific Reports, 2020, 10, 12533.	1.6	2
13	Singleâ€Crystalline Optical Microcavities from Luminescent Dendrimers. Angewandte Chemie, 2020, 132, 12774-12779.	1.6	5
14	The effect of metal-oxide incorporation on the morphology of carbon nanostructures. Journal Physics D: Applied Physics, 2020, 53, 145206.	1.3	2
15	Real-Time Detection of Single Auger Recombination Events in a Self-Assembled Quantum Dot. Nano Letters, 2020, 20, 1631-1636.	4.5	14
16	Singleâ€Crystalline Optical Microcavities from Luminescent Dendrimers. Angewandte Chemie - International Edition, 2020, 59, 12674-12679.	7.2	21
17	Tunable carrier density and high mobility of two-dimensional hole gases on diamond: The role of oxygen adsorption and surface roughness. Diamond and Related Materials, 2019, 97, 107450.	1.8	16
18	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. Physical Review Letters, 2019, 122, 247403.	2.9	42

#	Article	IF	Citations
19	Contrast of 83% in reflection measurements on a single quantum dot. Scientific Reports, 2019, 9, 8817.	1.6	2
20	Patterning of diamond with 10 nm resolution by electron-beam-induced etching. Nanotechnology, 2019, 30, 365302.	1.3	4
21	Photon Noise Suppression by a Built-in Feedback Loop. Nano Letters, 2019, 19, 135-141.	4.5	3
22	Polychromatic Photoluminescence of Polymorph Boron Dipyrromethene Crystals and Heterostructures. Journal of Physical Chemistry C, 2019, 123, 5061-5066.	1.5	5
23	Analog Sauter-Schwinger effect in semiconductors for spacetime-dependent fields. Physical Review B, 2018, 97, .	1.1	17
24	Stability of suspended monolayer graphene membranes in alkaline environment. Materials Research Letters, 2018, 6, 49-54.	4.1	5
25	Structural and thermoelectrical characterization of epitaxial Sb₂Te₃ high quality thin films grown by thermal evaporation. Semiconductor Science and Technology, 2018, 33, 105002.	1.0	14
26	Electron dynamics in transport and optical measurements of selfâ€assembled quantum dots. Physica Status Solidi (B): Basic Research, 2017, 254, 1600625.	0.7	6
27	Rendering Ti₃C₂T_x (MXene) monolayers visible. Materials Research Letters, 2017, 5, 322-328.	4.1	41
28	Charge-driven feedback loop in the resonance fluorescence of a single quantum dot. Physical Review B, 2017, 95, .	1.1	4
29	Intermediate Product Regulation in Tandem Solid Catalysts with Multimodal Porosity for Highâ€Yield Synthetic Fuel Production. Angewandte Chemie, 2017, 129, 11638-11642.	1.6	10
30	All-electrical measurement of the triplet-singlet spin relaxation time in self-assembled quantum dots. Applied Physics Letters, 2017, 111, .	1.5	4
31	Intermediate Product Regulation in Tandem Solid Catalysts with Multimodal Porosity for Highâ€Yield Synthetic Fuel Production. Angewandte Chemie - International Edition, 2017, 56, 11480-11484.	7.2	34
32	Giant magneto-photoelectric effect in suspended graphene. New Journal of Physics, 2017, 19, 063028.	1.2	7
33	Photoelectron generation and capture in the resonance fluorescence of a quantum dot. Applied Physics Letters, 2016, 108, .	1.5	15
34	Optically induced mode splitting in self-assembled, high quality-factor conjugated polymer microcavities. Scientific Reports, 2016, 6, 19635.	1.6	16
35	Quantum confinement in EuO heterostructures. Applied Physics Letters, 2016, 109, .	1.5	18
36	Electronic properties of freestanding Ti3C2Tx MXene monolayers. Applied Physics Letters, 2016, 108, .	1.5	171

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37	Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer. ACS Nano, 2016, 10, 5543-5549.	7.3	46
38	Auger Recombination in Self-Assembled Quantum Dots: Quenching and Broadening of the Charged Exciton Transition. Nano Letters, 2016, 16, 3367-3372.	4.5	60
39	Irradiation of graphene field effect transistors with highly charged ions. Nuclear Instruments & Methods in Physics Research B, 2016, 382, 71-75.	0.6	18
40	Licht auf der Kreisbahn. Physik in Unserer Zeit, 2016, 47, 162-163.	0.0	0
41	Enwrapping Conjugated Polymer Microspheres with Graphene Oxide Nanosheets. Chemistry Letters, 2016, 45, 1024-1026.	0.7	7
42	Optical Blocking of Electron Tunneling into a Single Self-Assembled Quantum Dot. Physical Review Letters, 2016, 117, 017401.	2.9	21
43	Color-Tunable Resonant Photoluminescence and Cavity-Mediated Multistep Energy Transfer Cascade. ACS Nano, 2016, 10, 7058-7063.	7.3	67
44	Edge magnetotransport in graphene: A combined analytical and numerical study. Annalen Der Physik, 2015, 527, 723-736.	0.9	12
45	Whispering gallery mode photoemission from self-assembled poly-para-phenylenevinylene microspheres. AIP Conference Proceedings, 2015, , .	0.3	1
46	The effect of charged quantum dots on the mobility of a two-dimensional electron gas: How important is the Coulomb scattering?. Journal of Applied Physics, 2015, 117, 054305.	1.1	5
47	Wave functions of elliptical quantum dots in a magnetic field. American Journal of Physics, 2015, 83, 205-209.	0.3	7
48	Van der Waals epitaxial MOCVD-growth of (Bi_{<i>x</i>}Sb_{1â^'<i>x</i>})₂Te₃(0 <<i>x</i>< 1) films. Semiconductor Science and Technology, 2015, 30, 085021.	1.0	15
49	Whispering Gallery Resonance from Self-Assembled Microspheres of Highly Fluorescent Isolated Conjugated Polymers. Macromolecules, 2015, 48, 3928-3933.	2.2	45
50	Tuning the tunneling probability between low-dimensional electron systems by momentum matching. Applied Physics Letters, 2015, 106, .	1.5	9
51	Electron-beam induced nano-etching of suspended graphene. Scientific Reports, 2015, 5, 7781.	1.6	62
52	Charge storage in Î²-FeSi2 nanoparticles. Journal of Applied Physics, 2015, 117, 054303.	1.1	5
53	The influence of different pre-treatments of current collectors and variation of the binders on the performance of Li4Ti5O12 anodes for lithium ion batteries. Journal of Applied Electrochemistry, 2015, 45, 1043-1055.	1.5	13
54	Time-resolved transconductance spectroscopy on self-assembled quantum dots: Spectral evolution from single- into many-particle states. Physical Review B, 2014, 89, .	1.1	7

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55	Control of molecular orientation and morphology in organic bilayer solar cells: Copper phthalocyanine on gold nanodots. Thin Solid Films, 2014, 562, 467-470.	0.8	9
56	Asymmetry of charge relaxation times in quantum dots: The influence of degeneracy. Europhysics Letters, 2014, 106, 47002.	0.7	25
57	3 ns single-shot read-out in a quantum dot-based memory structure. Applied Physics Letters, 2014, 104, 053111.	1.5	13
58	GaSb quantum dots on GaAs with high localization energy of 710 meV and an emission wavelength of 1.3 Âµm. Journal of Crystal Growth, 2014, 404, 48-53.	0.7	11
59	Highly Luminescent ZnO Quantum Dots Made in a Nonthermal Plasma. Advanced Functional Materials, 2014, 24, 1988-1993.	7.8	80
60	Self-assembled conjugated polymer spheres as fluorescent microresonators. Scientific Reports, 2014, 4, 5902.	1.6	80
61	Growth and Spectroscopy of Semiconductor Quantum Rings. Nanoscience and Technology, 2014, , 27-59.	1.5	2
62	Magnetotransport along a boundary: from coherent electron focusing to edge channel transport. New Journal of Physics, 2013, 15, 113047.	1.2	15
63	Publisher's Note: Role of the ligand layer for photoluminescence spectral diffusion of CdSe/ZnS nanoparticles [Phys. Rev. B88, 125302 (2013)]. Physical Review B, 2013, 88, .	1.1	0
64	Role of the ligand layer for photoluminescence spectral diffusion of CdSe/ZnS nanoparticles. Physical Review B, 2013, 88, .	1.1	22
65	Optical Properties of Silicon Nanoparticles. Nanoscience and Technology, 2012, , 209-230.	1.5	1
66	Transverse rectification in density-modulated two-dimensional electron gases. Physical Review B, 2012, 86, .	1.1	6
67	Thermoreflectance imaging of percolation effects and dynamic resistance in indium tin oxide nanoparticle layers. Journal of Applied Physics, 2012, 112, 083705.	1.1	3
68	Manipulation of Electronic Transport in the Bi(111) Surface State. Physical Review Letters, 2012, 108, 266804.	2.9	22
69	Timeâ€resolved detection of manyâ€particle hole states in InAs/GaAs quantum dots using a twoâ€dimensional hole gas up to 77 K. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 243-246.	0.8	2
70	Electrical Transport in Semiconductor Nanoparticle Arrays: Conductivity, Sensing and Modeling. Nanoscience and Technology, 2012, , 231-271.	1.5	4
71	Momentum matching in the tunneling between 2-dimensional and 0-dimensional electron systems. Applied Physics Letters, 2012, 100, .	1.5	7
72	The influence of charged InAs quantum dots on the conductance of a two-dimensional electron gas: Mobility vs. carrier concentration. Applied Physics Letters, 2011, 99, .	1.5	13

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73	Edge-induced magnetoplasmon excitation in a two-dimensional electron gas under quantum Hall conditions. Physical Review B, 2011, 84, .	1.1	0
74	Time-resolved high-temperature detection with single charge resolution of holes tunneling into many-particle quantum dot states. Physical Review B, 2011, 84, .	1.1	15
75	Energy Transport by Neutral Collective Excitations at the Quantum Hall Edge. Physical Review Letters, 2011, 106, 256802.	2.9	16
76	All-electrical transport spectroscopy of non-equilibrium many-particle states in self-assembled quantum dots. AIP Conference Proceedings, 2011, , .	0.3	0
77	Synthesis and Ink-Jet Printing of Highly Luminescing Silicon Nanoparticles for Printable Electronics. Journal of Nanoscience and Nanotechnology, 2011, 11, 5028-5033.	0.9	11
78	XeF₂gas-assisted focused-electron-beam-induced etching of GaAs with 30 nm resolution. Nanotechnology, 2011, 22, 045301.	1.3	24
79	Transport spectroscopy of non-equilibrium many-particle spin states in self-assembled quantum dots. Nature Communications, 2011, 2, 209.	5.8	28
80	Quantum Hall Mach-Zehnder interferometer far beyond equilibrium. Physical Review B, 2011, 84, .	1.1	14
81	Mobility and carrier density in nanoporous indium tin oxide films. Physical Review B, 2011, 83, .	1.1	23
82	Transverse ballistic rectification in density-modulated 2D-systems. , 2010, , .		0
83	A Two-Dimensional Electron Gas as a Sensitive Detector for Time-Resolved Tunneling Measurements on Self-Assembled Quantum Dots. Nanoscale Research Letters, 2010, 5, 829-833.	3.1	11
84	THz-Photoconductivity of Quantum Hall Systems inÂQuasi-Corbino-Geometry. Journal of Low Temperature Physics, 2010, 159, 193-196.	0.6	0
85	A voltage-tunable in-plane diode in a two-dimensional-electron system. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1216-1219.	1.3	1
86	Self-assembled quantum dots in a liquid-crystal-tunable microdisk resonator. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2552-2555.	1.3	9
87	A two-dimensional electron gas as a sensitive detector to observe the charge carrier dynamics of self-assembled QDs. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2598-2601.	1.3	3
88	Local investigation of the energy gap within the incompressible strip in the quantum Hall regime. JETP Letters, 2010, 92, 67-70.	0.4	4
89	Two-Dimensional Electron Transport and Scattering in Bi(111) Surface States. E-Journal of Surface Science and Nanotechnology, 2010, 8, 27-31.	0.1	11
90	Electronic structure of self-assembled InGaAs/GaAs quantum rings studied by capacitance-voltage spectroscopy. Applied Physics Letters, 2010, 96, .	1.5	17

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91	â€œArtificial Atomsâ€•in Magnetic Fields: Wave-Function Shaping and Phase-Sensitive Tunneling. Physical Review Letters, 2010, 105, 176804.	2.9	25
92	Electroluminescence from silicon nanoparticles fabricated from the gas phase. Nanotechnology, 2010, 21, 455201.	1.3	5
93	Tuning quantum-dot based photonic devices with liquid crystals. Optics Express, 2010, 18, 7946.	1.7	11
94	A 2D Electron Gas for Studies on Tunneling Dynamics and Charge Storage in Self-assembled Quantum Dots. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 180-188.	0.2	0
95	Terahertz photoresponse of a quantum Hall edge-channel diode. Physical Review B, 2009, 80, .	1.1	3
96	Interference effects in transport across a single incompressible strip at the edge of the fractional quantum Hall system. Physical Review B, 2009, 79, .	1.1	6
97	Using a two-dimensional electron gas to study nonequilibrium tunneling dynamics and charge storage in self-assembled quantum dots. Applied Physics Letters, 2009, 95, 022113.	1.5	37
98	Graphene on insulating crystalline substrates. Nanotechnology, 2009, 20, 155601.	1.3	42
99	Electron energy structure of self-assembled In(Ga)As nanostructures probed by capacitance-voltage spectroscopy and one-dimensional numerical simulation. Journal of Materials Research, 2009, 24, 2179-2184.	1.2	1
100	Silicon Nanoparticles: Excitonic Fine Structure and Oscillator Strength. Advances in Solid State Physics, 2009, , 79-90.	0.8	5
101	Separately contacted edge states at high imbalance in the integer and fractional quantum Hall effect regime. Physica Status Solidi (B): Basic Research, 2008, 245, 366-377.	0.7	10
102	Transport across the incompressible strip in the fractional quantum Hall effect regime. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1232-1234.	1.3	1
103	Magnetic-field-induced modification of the wave-functions in InAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1870-1872.	1.3	6
104	Quantum dots as tunable scatterers for 2D- and 1D-electron systems. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2075-2077.	1.3	5
105	High sensitivity far-infrared detection by resonant inter-Landau-level scattering. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1328-1331.	1.3	4
106	Experimental realization of a Fabry-Perot-type interferometer by copropagating edge states in the quantum Hall regime. Physical Review B, 2008, 77, .	1.1	18
107	Probing the band structure of InAsâˆ•GaAs quantum dots by capacitance-voltage and photoluminescence spectroscopy. Applied Physics Letters, 2008, 92, 193111.	1.5	18
108	Manifestation of a complex edge excitation structure in the quantum Hall regime at high fractional filling factors. Physical Review B, 2008, 78, .	1.1	4

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109	Evidence for the Luttigger liquid density of states in transport across the incompressible stripe at fractional filling factors. Europhysics Letters, 2007, 77, 37002.	0.7	4
110	Experimental imaging and atomistic modeling of electron and hole quasiparticle wave functions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">In</mml:mi><mml:mi mathvariant="normal">As</mml:mi><mml:mo>âˆ•</mml:mo><mml:mi mathvariant="normal">Ga</mml:mi><mml:mi mathvariant="normal">As</mml:mi></mml:mrow></mml:math>quantum dots. Physical Review B, 2007, 7	1.1	42
111	Core and grain boundary sensitivity of tungsten-oxide sensor devices by molecular beam assisted particle deposition. Journal of Applied Physics, 2007, 102, 124305.	1.1	21
112	Temperature-induced crossover between bright and dark exciton emission in silicon nanoparticles. Europhysics Letters, 2007, 79, 37002.	0.7	13
113	Silicon nanoparticles: Absorption, emission, and the nature of the electronic bandgap. Journal of Applied Physics, 2007, 101, 103112.	1.1	138
114	Growth and characterisation of GaAs/InGaAs/GaAs nanowhiskers on (111) GaAs. Journal of Crystal Growth, 2007, 298, 607-611.	0.7	44
115	Morphology, structure and electrical properties of iron nanochains. Nanotechnology, 2006, 17, 3111-3115.	1.3	15
116	Role of quantum capacitance in coupled low-dimensional electron systems. Physical Review B, 2006, 73, .	1.1	27
117	Quantum dot electrons as controllable scattering centers in the vicinity of a two-dimensional electron gas. Phase Transitions, 2006, 79, 765-770.	0.6	14
118	Hole and electron wave functions in self-assembled InAs quantum dots: a comparison. Physica Status Solidi (B): Basic Research, 2006, 243, 3942-3945.	0.7	2
119	Raman properties of silicon nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 155-158.	1.3	135
120	Mapping of the hole wave functions of self-assembled InAs-quantum dots by magneto-capacitanceâ€“voltage spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 159-162.	1.3	11
121	Charge pumping in driven electron ratchets. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 528-531.	1.3	1
122	Quantum size effect of valence band plasmon energies in Si and SnO[sub x] nanoparticles. Journal of Vacuum Science & Technology B, 2006, 24, 1156.	1.3	15
123	Vibrational and defect states in SnOx nanoparticles. Journal of Applied Physics, 2006, 99, 113108.	1.1	26
124	Equilibration between edge states in the fractional quantum Hall effect regime at high imbalances. Physical Review B, 2006, 74, .	1.1	14
125	Effect of in-flight annealing and deposition method on gas-sensitive SnOx films made from size-selected nanoparticles. Sensors and Actuators B: Chemical, 2005, 108, 62-69.	4.0	19
126	Nanostructured gas sensors and electrical characterization of deposited SnO2 nanoparticles in ambient gas atmosphere. Sensors and Actuators B: Chemical, 2005, 109, 13-18.	4.0	56

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127	A three-terminal planar selfgating device for nanoelectronic applications. Solid-State Electronics, 2005, 49, 1990-1995.	0.8	6
128	Experimental Investigation of the Edge States Structure at Fractional Filling Factors. JETP Letters, 2005, 82, 539.	0.4	7
129	Emission from neutral and charged excitons in self-organized InAs quantum dots: Band bending vs Pauli blocking. AIP Conference Proceedings, 2005, , .	0.3	0
130	Magneto-Capacitance Imaging of Quasi-Particle Wave Functions in Quantum Dots. AIP Conference Proceedings, 2005, , .	0.3	0
131	Screening effects in InAs quantum-dot structures observed by photoluminescence and capacitance-voltage spectra. Applied Physics Letters, 2005, 87, 163117.	1.5	6
132	Infrared properties of silicon nanoparticles. Journal of Applied Physics, 2005, 97, 084306.	1.1	34
133	Coulomb-Interaction-Induced Incomplete Shell Filling in the Hole System of InAs Quantum Dots. Physical Review Letters, 2005, 94, 026808.	2.9	56
134	Topological defects in the edge-state structure in a bilayer electron system. Physical Review B, 2005, 72, .	1.1	10
135	Wave-form sampling using a driven electron ratchet in a two-dimensional electron system. Applied Physics Letters, 2005, 87, 042104.	1.5	15
136	Electrical Readout of the Local Nuclear Polarization in the Quantum Hall Effect: A Hyperfine Battery. Physical Review Letters, 2005, 95, 056802.	2.9	19
137	Self Assembled Iron Nanowires: Morphology, Electrical and Magnetic Properties. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
138	Magnetocapacitance probing of the many-particle states in InAs dots. Applied Physics Letters, 2005, 86, 092104.	1.5	43
139	Two relaxation mechanisms observed in transport between spin-split edge states at high imbalance. Physical Review B, 2004, 69, .	1.1	29
140	Rectification in Mesoscopic Systems with Broken Symmetry: Quasiclassical Ballistic Versus Classical Transport. Physical Review Letters, 2004, 92, 056806.	2.9	33
141	Manifestation of the bulk phase transition in the edge energy spectrum in a two-dimensional bilayer electron system. JETP Letters, 2004, 79, 171-176.	0.4	2
142	Wave function mapping of self-assembled quantum dots by capacitance spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 516-520.	1.3	3
143	Quantized transport in ballistic rectifiers: sign reversal and step-like output. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 916-920.	1.3	12
144	Separately contacted edge states in the fractional quantum Hall regime. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 177-180.	1.3	3

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145	Self-assembled quantum dots as probes for Landau-level spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 506-509.	1.3	8
146	Curved two-dimensional electron gases. Superlattices and Microstructures, 2003, 33, 347-356.	1.4	33
147	Surface oxidation of monodisperse SnOx nanoparticles. Sensors and Actuators B: Chemical, 2003, 88, 281-285.	4.0	43
148	Wetting droplet instability and quantum ring formation. Physical Review E, 2002, 65, 021603.	0.8	104
149	Separately contacted edge states: A spectroscopic tool for the investigation of the quantum Hall effect. Physical Review B, 2002, 65, .	1.1	58
150	Charging dynamics in vertically aligned InAs quantum dots. Materials Science and Technology, 2002, 18, 725-728.	0.8	6
151	Morphological transformation of InyGa1â^'yAs islands, fabricated by Stranskiâ€“Krastanov growth. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 88, 225-229.	1.7	52
152	Epitaxially Self-Assembled Quantum Dots. Physics Today, 2001, 54, 46-52.	0.3	323
153	Optical emission from single, charge-tunable quantum rings. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 124-130.	1.3	27
154	Growth and Electronic Properties of Self-Organized Quantum Rings. Japanese Journal of Applied Physics, 2001, 40, 1857-1859.	0.8	74
155	Edge and bulk effects in Terahertz photoconductivity of an antidot superlattice. Physical Review B, 2001, 63, .	1.1	12
156	Adiabatic pumping of two-dimensional electrons in a ratchet-type lateral superlattice. Applied Physics Letters, 2001, 78, 2905-2907.	1.5	26
157	Determination of strain fields and composition of self-organized quantum dots using x-ray diffraction. Physical Review B, 2001, 63, .	1.1	147
158	Conductance quantization in an array of ballistic constrictions. Springer Proceedings in Physics, 2001, , 755-756.	0.1	0
159	Excitons in self-assembled quantum ring-like structures. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 510-513.	1.3	82
160	Breakdown of Shubnikovâ€“de Haas oscillations in a short-period 1D lateral superlattice. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 561-564.	1.3	9
161	Characterization of the field-effect addressable potentiometric sensor (FAPS). Sensors and Actuators B: Chemical, 2000, 68, 266-273.	4.0	7
162	Optical emission from a charge-tunable quantum ring. Nature, 2000, 405, 926-929.	13.7	832

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163	Spectroscopy of Nanoscopic Semiconductor Rings. Physical Review Letters, 2000, 84, 2223-2226.	2.9	765
164	Far-infrared spectroscopy of nanoscopic InAs rings. Physical Review B, 2000, 62, 4573-4577.	1.1	76
165	Nanometer-Scale Resolution of Strain and Interdiffusion in Self-AssembledInAs/GaAsQuantum Dots. Physical Review Letters, 2000, 85, 1694-1697.	2.9	203
166	Coulomb-coupling in vertically aligned self-assembled InAs quantum dots. Nanotechnology, 1999, 10, 14-18.	1.3	22
167	Interdependence of strain and shape in self-assembled coherent InAs islands on GaAs. Europhysics Letters, 1999, 45, 222-227.	0.7	44
168	Magnetotransport properties of arrays of cross-shaped antidots. Physical Review B, 1999, 60, 8845-8848.	1.1	4
169	The field-effect-addressable potentiometric sensor/stimulator (FAPS)â€”a new concept for a surface potential sensor and stimulator with spatial resolution. Sensors and Actuators B: Chemical, 1999, 58, 497-504.	4.0	11
170	Electronic structure of nanometer-size quantum dots and quantum rings. Microelectronic Engineering, 1999, 47, 95-99.	1.1	24
171	Ballistic magnetotransport in a semiconductor microjunction with broken symmetry. Superlattices and Microstructures, 1999, 25, 149-152.	1.4	5
172	A nonlinear transport device with no intrinsic threshold. Superlattices and Microstructures, 1999, 25, 269-272.	1.4	21
173	The dynamics of tunneling into self-assembled InAs dots. Applied Physics Letters, 1999, 74, 2486-2488.	1.5	101
174	Shape, size, strain and correlations in quantum dot systems studied by grazing incidence X-ray scattering methods. Thin Solid Films, 1998, 336, 1-8.	0.8	44
175	Electronic coupling effects in self-assembled InAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 704-708.	1.3	26
176	Fine structure in the spectrum of the few-electron ground states of self-assembled quantum dots. Physica B: Condensed Matter, 1998, 249-251, 257-261.	1.3	10
177	Far-infrared and transport properties of antidot arrays with broken symmetry. Physica B: Condensed Matter, 1998, 249-251, 312-316.	1.3	72
178	Many-particle ground states and excitations in nanometer-size quantum structures. Physica B: Condensed Matter, 1998, 256-258, 424-430.	1.3	84
179	Highly anharmonic potential modulation in lateral superlattices fabricated using epitaxial InGaAs stressors. Applied Physics Letters, 1998, 73, 1110-1112.	1.5	5
180	Nonlinear Electron Transport in an Asymmetric Microjunction: A Ballistic Rectifier. Physical Review Letters, 1998, 80, 3831-3834.	2.9	208

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181	Strain and Shape in Self-Assembled Quantum Dots Studied by X-Ray Grazing Incidence Diffraction. Materials Research Society Symposia Proceedings, 1998, 524, 89.	0.1	0
182	Parallel quantum-point-contacts as high-frequency-mixers. Applied Physics Letters, 1997, 70, 3251-3253.	1.5	22
183	Coupling between LO phonons and electronic excitations of quantum dots. Physical Review B, 1997, 56, 1516-1519.	1.1	22
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