

Axel Lorke

List of Publications by Year in descending order

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218
papers

8,268
citations

66234

42
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51492

86
g-index

226
all docs

226
docs citations

226
times ranked

5870
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical emission from a charge-tunable quantum ring. <i>Nature</i> , 2000, 405, 926-929.	13.7	832
2	Spectroscopy of Nanoscopic Semiconductor Rings. <i>Physical Review Letters</i> , 2000, 84, 2223-2226.	2.9	765
3	Intermixing and shape changes during the formation of InAs self-assembled quantum dots. <i>Applied Physics Letters</i> , 1997, 71, 2014-2016.	1.5	559
4	Epitaxially Self-Assembled Quantum Dots. <i>Physics Today</i> , 2001, 54, 46-52.	0.3	323
5	Coupling of quantum dots on GaAs. <i>Physical Review Letters</i> , 1990, 64, 2559-2562.	2.9	300
6	Shell structure and electron-electron interaction in self-assembled InAs quantum dots. <i>Europhysics Letters</i> , 1996, 36, 197-202.	0.7	248
7	Few-electron ground states of charge-tunable self-assembled quantum dots. <i>Physical Review B</i> , 1997, 56, 6764-6769.	1.1	233
8	Nonlinear Electron Transport in an Asymmetric Microjunction: A Ballistic Rectifier. <i>Physical Review Letters</i> , 1998, 80, 3831-3834.	2.9	208
9	Nanometer-Scale Resolution of Strain and Interdiffusion in Self-Assembled InAs/GaAs Quantum Dots. <i>Physical Review Letters</i> , 2000, 85, 1694-1697.	2.9	203
10	Electronic properties of freestanding Ti ₃ C ₂ T _x MXene monolayers. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	171
11	Determination of strain fields and composition of self-organized quantum dots using x-ray diffraction. <i>Physical Review B</i> , 2001, 63, .	1.1	147
12	Initial stages of InAs epitaxy on vicinal GaAs(001)-(2 $\sqrt{3}$ –4). <i>Physical Review B</i> , 1994, 50, 8479-8487.	1.1	138
13	Silicon nanoparticles: Absorption, emission, and the nature of the electronic bandgap. <i>Journal of Applied Physics</i> , 2007, 101, 103112.	1.1	138
14	Magnetotransport in two-dimensional lateral superlattices. <i>Physical Review B</i> , 1991, 44, 3447-3450.	1.1	136
15	Raman properties of silicon nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 32, 155-158.	1.3	135
16	Island Scaling in Strained Heteroepitaxy: InAs/GaAs(001). <i>Physical Review Letters</i> , 1995, 74, 3209-3212.	2.9	126
17	Wetting droplet instability and quantum ring formation. <i>Physical Review E</i> , 2002, 65, 021603.	0.8	104
18	The dynamics of tunneling into self-assembled InAs dots. <i>Applied Physics Letters</i> , 1999, 74, 2486-2488.	1.5	101

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19	Many-particle ground states and excitations in nanometer-size quantum structures. <i>Physica B: Condensed Matter</i> , 1998, 256-258, 424-430.	1.3	84
20	Excitons in self-assembled quantum ring-like structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 510-513.	1.3	82
21	Highly Luminescent ZnO Quantum Dots Made in a Nonthermal Plasma. <i>Advanced Functional Materials</i> , 2014, 24, 1988-1993.	7.8	80
22	Self-assembled conjugated polymer spheres as fluorescent microresonators. <i>Scientific Reports</i> , 2014, 4, 5902.	1.6	80
23	Far-infrared spectroscopy of nanoscopic InAs rings. <i>Physical Review B</i> , 2000, 62, 4573-4577.	1.1	76
24	Growth and Electronic Properties of Self-Organized Quantum Rings. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 1857-1859.	0.8	74
25	Far-infrared and transport properties of antidot arrays with broken symmetry. <i>Physica B: Condensed Matter</i> , 1998, 249-251, 312-316.	1.3	72
26	Localization in GaAs electron-dots and anti-dots. <i>Superlattices and Microstructures</i> , 1991, 9, 103-106.	1.4	67
27	Color-Tunable Resonant Photoluminescence and Cavity-Mediated Multistep Energy Transfer Cascade. <i>ACS Nano</i> , 2016, 10, 7058-7063.	7.3	67
28	Electron-beam induced nano-etching of suspended graphene. <i>Scientific Reports</i> , 2015, 5, 7781.	1.6	62
29	Auger Recombination in Self-Assembled Quantum Dots: Quenching and Broadening of the Charged Exciton Transition. <i>Nano Letters</i> , 2016, 16, 3367-3372.	4.5	60
30	Separately contacted edge states: A spectroscopic tool for the investigation of the quantum Hall effect. <i>Physical Review B</i> , 2002, 65, .	1.1	58
31	Nanostructured gas sensors and electrical characterization of deposited SnO ₂ nanoparticles in ambient gas atmosphere. <i>Sensors and Actuators B: Chemical</i> , 2005, 109, 13-18.	4.0	56
32	Coulomb-Interaction-Induced Incomplete Shell Filling in the Hole System of InAs Quantum Dots. <i>Physical Review Letters</i> , 2005, 94, 026808.	2.9	56
33	Single-chip fused hybrids for acousto-electric and acousto-optic applications. <i>Applied Physics Letters</i> , 1997, 70, 2097-2099.	1.5	53
34	Morphological transformation of In _y Ga _{1-y} As islands, fabricated by Stranski-Krastanov growth. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 88, 225-229.	1.7	52
35	Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer. <i>ACS Nano</i> , 2016, 10, 5543-5549.	7.3	46
36	Whispering Gallery Resonance from Self-Assembled Microspheres of Highly Fluorescent Isolated Conjugated Polymers. <i>Macromolecules</i> , 2015, 48, 3928-3933.	2.2	45

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37	Shape, size, strain and correlations in quantum dot systems studied by grazing incidence X-ray scattering methods. <i>Thin Solid Films</i> , 1998, 336, 1-8.	0.8	44
38	Interdependence of strain and shape in self-assembled coherent InAs islands on GaAs. <i>Europhysics Letters</i> , 1999, 45, 222-227.	0.7	44
39	Growth and characterisation of GaAs/InGaAs/GaAs nanowhiskers on (111) GaAs. <i>Journal of Crystal Growth</i> , 2007, 298, 607-611.	0.7	44
40	Surface oxidation of monodisperse SnOx nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2003, 88, 281-285.	4.0	43
41	Magnetocapacitance probing of the many-particle states in InAs dots. <i>Applied Physics Letters</i> , 2005, 86, 092104.	1.5	43
42	Experimental imaging and atomistic modeling of electron and hole quasiparticle wave functions in $\ln_{x_1}\text{As}_{x_2}\text{Ga}_{1-x_1-x_2}$ quantum dots. <i>Physical Review B</i> , 2007, 7	1.1	42
43	Graphene on insulating crystalline substrates. <i>Nanotechnology</i> , 2009, 20, 155601.	1.3	42
44	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. <i>Physical Review Letters</i> , 2019, 122, 247403.	2.9	42
45	Rendering $\text{Ti}_3\text{C}_2\text{T}_x$ (MXene) monolayers visible. <i>Materials Research Letters</i> , 2017, 5, 322-328.	4.1	41
46	Using a two-dimensional electron gas to study nonequilibrium tunneling dynamics and charge storage in self-assembled quantum dots. <i>Applied Physics Letters</i> , 2009, 95, 022113.	1.5	37
47	Infrared properties of silicon nanoparticles. <i>Journal of Applied Physics</i> , 2005, 97, 084306.	1.1	34
48	Intermediate Product Regulation in Tandem Solid Catalysts with Multimodal Porosity for High-Yield Synthetic Fuel Production. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11480-11484.	7.2	34
49	Curved two-dimensional electron gases. <i>Superlattices and Microstructures</i> , 2003, 33, 347-356.	1.4	33
50	Rectification in Mesoscopic Systems with Broken Symmetry: Quasiclassical Ballistic Versus Classical Transport. <i>Physical Review Letters</i> , 2004, 92, 056806.	2.9	33
51	Two relaxation mechanisms observed in transport between spin-split edge states at high imbalance. <i>Physical Review B</i> , 2004, 69, .	1.1	29
52	Transport spectroscopy of non-equilibrium many-particle spin states in self-assembled quantum dots. <i>Nature Communications</i> , 2011, 2, 209.	5.8	28
53	Far-infrared response of lateral superlattices in high magnetic fields. <i>Physical Review B</i> , 1992, 46, 12845-12848.	1.1	27
54	Optical emission from single, charge-tunable quantum rings. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 9, 124-130.	1.3	27

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55	Role of quantum capacitance in coupled low-dimensional electron systems. <i>Physical Review B</i> , 2006, 73, .	1.1	27
56	Step bunching and step equalization on vicinal GaAs(001) surfaces. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 2689.	1.6	26
57	Electronic coupling effects in self-assembled InAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 704-708.	1.3	26
58	Adiabatic pumping of two-dimensional electrons in a ratchet-type lateral superlattice. <i>Applied Physics Letters</i> , 2001, 78, 2905-2907.	1.5	26
59	Vibrational and defect states in SnOx nanoparticles. <i>Journal of Applied Physics</i> , 2006, 99, 113108.	1.1	26
60	“Artificial Atoms” in Magnetic Fields: Wave-Function Shaping and Phase-Sensitive Tunneling. <i>Physical Review Letters</i> , 2010, 105, 176804.	2.9	25
61	Asymmetry of charge relaxation times in quantum dots: The influence of degeneracy. <i>Europhysics Letters</i> , 2014, 106, 47002.	0.7	25
62	Nanolithography with an atomic force microscope. <i>Superlattices and Microstructures</i> , 1996, 20, 349-356.	1.4	24
63	Electronic structure of nanometer-size quantum dots and quantum rings. <i>Microelectronic Engineering</i> , 1999, 47, 95-99.	1.1	24
64	XeF ₂ gas-assisted focused-electron-beam-induced etching of GaAs with 30 nm resolution. <i>Nanotechnology</i> , 2011, 22, 045301.	1.3	24
65	Static and dynamic conductivity of lateral superlattices. <i>Surface Science</i> , 1992, 263, 307-313.	0.8	23
66	Local far-infrared spectroscopy of edge states in the quantum Hall regime. <i>Physical Review B</i> , 1996, 53, 1054-1057.	1.1	23
67	Mobility and carrier density in nanoporous indium tin oxide films. <i>Physical Review B</i> , 2011, 83, .	1.1	23
68	Subband spectroscopy of single and coupled GaAs quantum wells. <i>Physical Review B</i> , 1990, 42, 1321-1325.	1.1	22
69	Molecular-beam epitaxial growth mechanisms of (Al,Ga)As on vicinal GaAs surfaces: Self-organization and step bunching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1993, 11, 1384.	1.6	22
70	Parallel quantum-point-contacts as high-frequency-mixers. <i>Applied Physics Letters</i> , 1997, 70, 3251-3253.	1.5	22
71	Coupling between LO phonons and electronic excitations of quantum dots. <i>Physical Review B</i> , 1997, 56, 1516-1519.	1.1	22
72	Size Quantization and Zero Dimensional Effects in Self Assembled Semiconductor Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 4068-4072.	0.8	22

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73	Coulomb-coupling in vertically aligned self-assembled InAs quantum dots. <i>Nanotechnology</i> , 1999, 10, 14-18.	1.3	22
74	Manipulation of Electronic Transport in the Bi(111) Surface State. <i>Physical Review Letters</i> , 2012, 108, 266804.	2.9	22
75	Role of the ligand layer for photoluminescence spectral diffusion of CdSe/ZnS nanoparticles. <i>Physical Review B</i> , 2013, 88, .	1.1	22
76	A nonlinear transport device with no intrinsic threshold. <i>Superlattices and Microstructures</i> , 1999, 25, 269-272.	1.4	21
77	Core and grain boundary sensitivity of tungsten-oxide sensor devices by molecular beam assisted particle deposition. <i>Journal of Applied Physics</i> , 2007, 102, 124305.	1.1	21
78	Optical Blocking of Electron Tunneling into a Single Self-Assembled Quantum Dot. <i>Physical Review Letters</i> , 2016, 117, 017401.	2.9	21
79	Single-Crystalline Optical Microcavities from Luminescent Dendrimers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12674-12679.	7.2	21
80	Control of electron population by intersubband optical excitation in potential-inserted double quantum well structures. <i>Applied Physics Letters</i> , 1994, 65, 424-426.	1.5	19
81	Effect of in-flight annealing and deposition method on gas-sensitive SnO _x films made from size-selected nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 62-69.	4.0	19
82	Electrical Readout of the Local Nuclear Polarization in the Quantum Hall Effect: A Hyperfine Battery. <i>Physical Review Letters</i> , 2005, 95, 056802.	2.9	19
83	Experimental realization of a Fabry-Perot-type interferometer by copropagating edge states in the quantum Hall regime. <i>Physical Review B</i> , 2008, 77, .	1.1	18
84	Probing the band structure of InAs-GaAs quantum dots by capacitance-voltage and photoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2008, 92, 193111.	1.5	18
85	Quantum confinement in EuO heterostructures. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	18
86	Irradiation of graphene field effect transistors with highly charged ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 382, 71-75.	0.6	18
87	Electronic structure of self-assembled InGaAs/GaAs quantum rings studied by capacitance-voltage spectroscopy. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	17
88	Analog Sauter-Schwinger effect in semiconductors for spacetime-dependent fields. <i>Physical Review B</i> , 2018, 97, .	1.1	17
89	Energy Transport by Neutral Collective Excitations at the Quantum Hall Edge. <i>Physical Review Letters</i> , 2011, 106, 256802.	2.9	16
90	Optically induced mode splitting in self-assembled, high quality-factor conjugated polymer microcavities. <i>Scientific Reports</i> , 2016, 6, 19635.	1.6	16

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91	Tunable carrier density and high mobility of two-dimensional hole gases on diamond: The role of oxygen adsorption and surface roughness. <i>Diamond and Related Materials</i> , 2019, 97, 107450.	1.8	16
92	Wave-form sampling using a driven electron ratchet in a two-dimensional electron system. <i>Applied Physics Letters</i> , 2005, 87, 042104.	1.5	15
93	Morphology, structure and electrical properties of iron nanochains. <i>Nanotechnology</i> , 2006, 17, 3111-3115.	1.3	15
94	Quantum size effect of valence band plasmon energies in Si and SnO _x nanoparticles. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 1156.	1.3	15
95	Time-resolved high-temperature detection with single charge resolution of holes tunneling into many-particle quantum dot states. <i>Physical Review B</i> , 2011, 84, .	1.1	15
96	Magnetotransport along a boundary: from coherent electron focusing to edge channel transport. <i>New Journal of Physics</i> , 2013, 15, 113047.	1.2	15
97	Van der Waals epitaxial MOCVD-growth of (Bi _x Sb _{1-x}) ₂ Te ₃ (0 < x < 1) films. <i>Semiconductor Science and Technology</i> , 2015, 30, 085021.	1.0	15
98	Photoelectron generation and capture in the resonance fluorescence of a quantum dot. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	15
99	Quantum dot electrons as controllable scattering centers in the vicinity of a two-dimensional electron gas. <i>Phase Transitions</i> , 2006, 79, 765-770.	0.6	14
100	Equilibration between edge states in the fractional quantum Hall effect regime at high imbalances. <i>Physical Review B</i> , 2006, 74, .	1.1	14
101	Quantum Hall Mach-Zehnder interferometer far beyond equilibrium. <i>Physical Review B</i> , 2011, 84, .	1.1	14
102	Structural and thermoelectrical characterization of epitaxial Sb ₂ Te ₃ high quality thin films grown by thermal evaporation. <i>Semiconductor Science and Technology</i> , 2018, 33, 105002.	1.0	14
103	Real-Time Detection of Single Auger Recombination Events in a Self-Assembled Quantum Dot. <i>Nano Letters</i> , 2020, 20, 1631-1636.	4.5	14
104	Self-organized lateral superlattice formation by vertical exchange reactions. <i>Surface Science</i> , 1994, 304, L493-L499.	0.8	13
105	Role of steps in epitaxial growth. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1995, 30, 121-125.	1.7	13
106	Temperature-induced crossover between bright and dark exciton emission in silicon nanoparticles. <i>Europhysics Letters</i> , 2007, 79, 37002.	0.7	13
107	The influence of charged InAs quantum dots on the conductance of a two-dimensional electron gas: Mobility vs. carrier concentration. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	13
108	3 ns single-shot read-out in a quantum dot-based memory structure. <i>Applied Physics Letters</i> , 2014, 104, 053111.	1.5	13

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109	The influence of different pre-treatments of current collectors and variation of the binders on the performance of Li ₄ Ti ₅ O ₁₂ anodes for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 1043-1055.	1.5	13
110	Tailoring of Bound Exciton Photoluminescence Emission in WS ₂ Monolayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900355.	1.2	13
111	Edge and bulk effects in Terahertz photoconductivity of an antidot superlattice. <i>Physical Review B</i> , 2001, 63, .	1.1	12
112	Quantized transport in ballistic rectifiers: sign reversal and step-like output. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 916-920.	1.3	12
113	Edge magnetotransport in graphene: A combined analytical and numerical study. <i>Annalen Der Physik</i> , 2015, 527, 723-736.	0.9	12
114	Pushing the Limits in Real-Time Measurements of Quantum Dynamics. <i>Physical Review Letters</i> , 2022, 128, 087701.	2.9	12
115	The field-effect-addressable potentiometric sensor/stimulator (FAPS) – a new concept for a surface potential sensor and stimulator with spatial resolution. <i>Sensors and Actuators B: Chemical</i> , 1999, 58, 497-504.	4.0	11
116	Mapping of the hole wave functions of self-assembled InAs-quantum dots by magneto-capacitance voltage spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 32, 159-162.	1.3	11
117	A Two-Dimensional Electron Gas as a Sensitive Detector for Time-Resolved Tunneling Measurements on Self-Assembled Quantum Dots. <i>Nanoscale Research Letters</i> , 2010, 5, 829-833.	3.1	11
118	Two-Dimensional Electron Transport and Scattering in Bi(111) Surface States. <i>E-Journal of Surface Science and Nanotechnology</i> , 2010, 8, 27-31.	0.1	11
119	Tuning quantum-dot based photonic devices with liquid crystals. <i>Optics Express</i> , 2010, 18, 7946.	1.7	11
120	Synthesis and Ink-Jet Printing of Highly Luminescing Silicon Nanoparticles for Printable Electronics. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5028-5033.	0.9	11
121	GaSb quantum dots on GaAs with high localization energy of 710 meV and an emission wavelength of 1.3 Åm. <i>Journal of Crystal Growth</i> , 2014, 404, 48-53.	0.7	11
122	Fine structure in the spectrum of the few-electron ground states of self-assembled quantum dots. <i>Physica B: Condensed Matter</i> , 1998, 249-251, 257-261.	1.3	10
123	Topological defects in the edge-state structure in a bilayer electron system. <i>Physical Review B</i> , 2005, 72, .	1.1	10
124	Separately contacted edge states at high imbalance in the integer and fractional quantum Hall effect regime. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 366-377.	0.7	10
125	Intermediate Product Regulation in Tandem Solid Catalysts with Multimodal Porosity for High-Yield Synthetic Fuel Production. <i>Angewandte Chemie</i> , 2017, 129, 11638-11642.	1.6	10
126	Breakdown of Shubnikov-de Haas oscillations in a short-period 1D lateral superlattice. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 561-564.	1.3	9

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127	Self-assembled quantum dots in a liquid-crystal-tunable microdisk resonator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2552-2555.	1.3	9
128	Control of molecular orientation and morphology in organic bilayer solar cells: Copper phthalocyanine on gold nanodots. <i>Thin Solid Films</i> , 2014, 562, 467-470.	0.8	9
129	Tuning the tunneling probability between low-dimensional electron systems by momentum matching. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	9
130	Excitation of edge magnetoplasmons in a two-dimensional electron gas by inductive coupling. <i>Applied Physics Letters</i> , 1997, 71, 3655-3657.	1.5	8
131	Self-assembled quantum dots as probes for Landau-level spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 506-509.	1.3	8
132	Characterization of the field-effect addressable potentiometric sensor (FAPS). <i>Sensors and Actuators B: Chemical</i> , 2000, 68, 266-273.	4.0	7
133	Experimental Investigation of the Edge States Structure at Fractional Filling Factors. <i>JETP Letters</i> , 2005, 82, 539.	0.4	7
134	Momentum matching in the tunneling between 2-dimensional and 0-dimensional electron systems. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	7
135	Time-resolved transconductance spectroscopy on self-assembled quantum dots: Spectral evolution from single- into many-particle states. <i>Physical Review B</i> , 2014, 89, .	1.1	7
136	Wave functions of elliptical quantum dots in a magnetic field. <i>American Journal of Physics</i> , 2015, 83, 205-209.	0.3	7
137	Enwrapping Conjugated Polymer Microspheres with Graphene Oxide Nanosheets. <i>Chemistry Letters</i> , 2016, 45, 1024-1026.	0.7	7
138	Giant magneto-photoelectric effect in suspended graphene. <i>New Journal of Physics</i> , 2017, 19, 063028.	1.2	7
139	Electron Transport in Antidot Superlattices. <i>Springer Series in Solid-state Sciences</i> , 1992, , 45-54.	0.3	6
140	Magnetotransport in lateral periodic potentials formed by surfaceâ€ˆlayerâ€ˆinduced modulation in InAsâ€ˆAlSb quantum wells. <i>Applied Physics Letters</i> , 1993, 63, 2251-2253.	1.5	6
141	Tapered GaAs quantum wells and selectively contactable twoâ€ˆdimensional electron gases grown by shadow masked molecularâ€ˆbeam epitaxy. <i>Journal of Applied Physics</i> , 1995, 77, 3578-3580.	1.1	6
142	Charging dynamics in vertically aligned InAs quantum dots. <i>Materials Science and Technology</i> , 2002, 18, 725-728.	0.8	6
143	A three-terminal planar selfgating device for nanoelectronic applications. <i>Solid-State Electronics</i> , 2005, 49, 1990-1995.	0.8	6
144	Screening effects in InAs quantum-dot structures observed by photoluminescence and capacitance-voltage spectra. <i>Applied Physics Letters</i> , 2005, 87, 163117.	1.5	6

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145	Magnetic-field-induced modification of the wave-functions in InAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1870-1872.	1.3	6
146	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, .	1.1	6
147	Transverse rectification in density-modulated two-dimensional electron gases. <i>Physical Review B</i> , 2012, 86, .	1.1	6
148	Electron dynamics in transport and optical measurements of self-assembled quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600625.	0.7	6
149	Laser- and Ion-Induced Defect Engineering in WS ₂ Monolayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000466.	1.2	6
150	Quantum Sensor for Nanoscale Defect Characterization. <i>Physical Review Applied</i> , 2021, 15, .	1.5	6
151	Far-infrared spectroscopy of electrons in coupled double quantum wells. <i>Superlattices and Microstructures</i> , 1989, 5, 279-282.	1.4	5
152	Highly anharmonic potential modulation in lateral superlattices fabricated using epitaxial InGaAs stressors. <i>Applied Physics Letters</i> , 1998, 73, 1110-1112.	1.5	5
153	Ballistic magnetotransport in a semiconductor microjunction with broken symmetry. <i>Superlattices and Microstructures</i> , 1999, 25, 149-152.	1.4	5
154	Quantum dots as tunable scatterers for 2D- and 1D-electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2075-2077.	1.3	5
155	Electroluminescence from silicon nanoparticles fabricated from the gas phase. <i>Nanotechnology</i> , 2010, 21, 455201.	1.3	5
156	The effect of charged quantum dots on the mobility of a two-dimensional electron gas: How important is the Coulomb scattering?. <i>Journal of Applied Physics</i> , 2015, 117, 054305.	1.1	5
157	Charge storage in FeSi ₂ nanoparticles. <i>Journal of Applied Physics</i> , 2015, 117, 054303.	1.1	5
158	Stability of suspended monolayer graphene membranes in alkaline environment. <i>Materials Research Letters</i> , 2018, 6, 49-54.	4.1	5
159	Polychromatic Photoluminescence of Polymorph Boron Dipyrromethene Crystals and Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5061-5066.	1.5	5
160	Single-Crystalline Optical Microcavities from Luminescent Dendrimers. <i>Angewandte Chemie</i> , 2020, 132, 12774-12779.	1.6	5
161	Silicon Nanoparticles: Excitonic Fine Structure and Oscillator Strength. <i>Advances in Solid State Physics</i> , 2009, , 79-90.	0.8	5
162	Magnetotransport properties of arrays of cross-shaped antidots. <i>Physical Review B</i> , 1999, 60, 8845-8848.	1.1	4

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163	Evidence for the Luttinger liquid density of states in transport across the incompressible stripe at fractional filling factors. <i>Europhysics Letters</i> , 2007, 77, 37002.	0.7	4
164	High sensitivity far-infrared detection by resonant inter-Landau-level scattering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1328-1331.	1.3	4
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