Christian SchÃ¶nenberger

List of Publications by Year
in descending order

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257 papers	17,630 citations	10389 72 h-index	15266 126 g-index
260 all docs	260 docs citations	260 times ranked	14226 citing authors

#	Article	IF	Citations
1	Electrical conduction through DNA molecules. Nature, 1999, 398, 407-410.	27.8	1,070
2	Aharonovâ€“Bohm oscillations in carbon nanotubes. Nature, 1999, 397, 673-675.	27.8	736
3	Template Synthesis of Nanowires in Porous Polycarbonate Membranes:â€‰ Electrochemistry and Morphology. Journal of Physical Chemistry B, 1997, 101, 5497-5505.	2.6	479
4	Cooper pair splitter realized in a two-quantum-dot Y-junction. Nature, 2009, 461, 960-963.	27.8	426
5	The Fermionic Hanbury Brown and Twiss Experiment. Science, 1999, 284, 296-298.	12.6	359
6	Hybrid superconductorâ€“quantum dot devices. Nature Nanotechnology, 2010, 5, 703-711.	31.5	350
7	Molecular junctions based on aromatic coupling. Nature Nanotechnology, 2008, 3, 569-574.	31.5	336
8	Electric field control of spin transport. Nature Physics, 2005, 1, 99-102.	16.7	334
9	Nanomechanics of Microtubules. Physical Review Letters, 2002, 89, 248101.	7.8	309
10	Nernst Limit in Dual-Gated Si-Nanowire FET Sensors. Nano Letters, 2010, 10, 2268-2274.	9.1	307
11	Light-Controlled Conductance Switching of Ordered Metalâ^'Moleculeâ^'Metal Devices. Nano Letters, 2009, 9, 76-80.	9.1	299
12	Contacting carbon nanotubes selectively with low-ohmic contacts for four-probe electric measurements. Applied Physics Letters, 1998, 73, 274-276.	3.3	294
13	Colloidal Dispersions of Gold Rods:Â Synthesis and Optical Properties. Langmuir, 2000, 16, 451-458.	3.5	286
14	Interference and Interaction in multi-wall carbon nanotubes. Applied Physics A: Materials Science and Processing, 1999, 69, 283-295.	2.3	282
15	What Are the "Holes" in Self-Assembled Monolayers of Alkanethiols on Gold?. Langmuir, 1994, 10, 611-614.	3.5	261
16	Quantum Dot in the Kondo Regime Coupled to Superconductors. Physical Review Letters, 2002, 89, 256801.	7.8	256
17	Electrochemical carbon nanotube field-effect transistor. Applied Physics Letters, 2001, 78, 1291-1293.	3.3	253
18	Observation of single charge carriers by force microscopy. Physical Review Letters, 1990, 65, 3162-3164.	7.8	245

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19	Graphene spintronics: the European Flagship perspective. 2D Materials, 2015, 2, 030202.	4.4	243
20	Aqueous Gold Sols of Rod-Shaped Particles. Journal of Physical Chemistry B, 1997, 101, 852-854.	2.6	240
21	Domain Structure of Self-Assembled Alkanethiol Monolayers on Gold. The Journal of Physical Chemistry, 1995, 99, 3259-3271.	2.9	199
22	Electrical Conductance of Molecular Junctions by a Robust Statistical Analysis. Nano Letters, 2006, 6, 2238-2242.	9.1	189
23	A differential interferometer for force microscopy. Review of Scientific Instruments, 1989, 60, 3131-3134.	1.3	185
24	Ballistic interferences in suspended graphene. Nature Communications, 2013, 4, 2342.	12.8	185
25	Electrical Conductance of Conjugated Oligomers at the Single Molecule Level. Journal of the American Chemical Society, 2008, 130, 1080-1084.	13.7	180
26	Multiwall Carbon Nanotubes as Quantum Dots. Physical Review Letters, 2002, 88, 156801.	7.8	172
27	Shot-Noise Suppression in the Single-Electron Tunneling Regime. Physical Review Letters, 1995, 75, 1610-1613.	7.8	166
28	Suppression of Tunneling into Multiwall Carbon Nanotubes. Physical Review Letters, 2001, 87, 166801.	7.8	166
29	Quantum Shot Noise. Physics Today, 2003, 56, 37-42.	0.3	166
30	Multiple Andreev Reflections in a Carbon Nanotube Quantum Dot. Physical Review Letters, 2003, 91, 057005.	7.8	165
31	Anomalous Coiling of SiGe/Si and SiGe/Si/Cr Helical Nanobelts. Nano Letters, 2006, 6, 1311-1317.	9.1	163
32	Low-Bias Active Control of Terahertz Waves by Coupling Large-Area CVD Graphene to a Terahertz Metamaterial. Nano Letters, 2013, 13, 3193-3198.	9.1	163
33	Graphene Transistors Are Insensitive to pH Changes in Solution. Nano Letters, 2011, 11, 3597-3600.	9.1	157
34	Near-Unity Cooper Pair Splitting Efficiency. Physical Review Letters, 2012, 109, 157002.	7.8	157
35	Nanometer resolution in luminescence microscopy of IIIâ€V heterostructures. Applied Physics Letters, 1990, 56, 1564-1566.	3.3	156
36	Formation of Holes in Alkanethiol Monolayers on Gold. The Journal of Physical Chemistry, 1994, 98, 6826-6834.	2.9	147

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37	Spontaneously Gapped Ground State in Suspended Bilayer Graphene. Physical Review Letters, 2012, 108, 076602.	7.8	147
38	Hall-effect and resistivity study of the heavy-fermion systemURu2Si2. Physical Review B, 1987, 35, 5375-5378.	3.2	141
39	1/3-shot-noise suppression in diffusive nanowires. Physical Review B, 1999, 59, 2871-2880.	3.2	139
40	Finite-Bias Cooper Pair Splitting. Physical Review Letters, 2011, 107, 136801.	7.8	138
41	Understanding magnetic force microscopy. European Physical Journal B, 1990, 80, 373-383.	1.5	134
42	Controllable fabrication of SiGe/Si and SiGe/Si/Cr helical nanobelts. Nanotechnology, 2005, 16, 655-663.	2.6	128
43	Even-Odd Effect in Andreev Transport through a Carbon Nanotube Quantum Dot. Physical Review Letters, 2007, 99, 126602.	7.8	127
44	Single-Electron Tunnelling Observed At Room Temperature by Scanning-Tunnelling Microscopy. Europhysics Letters, 1992, 20, 249-254.	2.0	125
45	Reversible Formation of Molecular Junctions in 2D Nanoparticle Arrays. Advanced Materials, 2006, 18, 2444-2447.	21.0	123
46	Large spin relaxation anisotropy and valley-Zeeman spin-orbit coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mr /graphene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>h</mml:mi></mml:math> -BN heterostructures. Physical Review B, 2018, 97, .	3.2	118
47	Giant magnetoresistance of electrodeposited Co/Cu multilayers. Journal of Magnetism and Magnetic Materials, 1995, 148, 455-465.	2.3	113
48	Cyclic Conductance Switching in Networks of Redox-Active Molecular Junctions. Nano Letters, 2010, 10, 759-764.	9.1	108
49	Tuning the Josephson current in carbon nanotubes with the Kondo effect. Physical Review B, 2009, 79, .	3.2	106
50	Understanding the Electrolyte Background for Biochemical Sensing with Ion-Sensitive Field-Effect Transistors. ACS Nano, 2012, 6, 9291-9298.	14.6	105
51	Luminescence in scanning tunneling microscopy on IIIâ€“V nanostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 409.	1.6	101
52	Observation of Fano resonances in single-wall carbon nanotubes. Physical Review B, 2004, 70, .	3.2	100
53	Regulating a Benzodifuran Single Molecule Redox Switch via Electrochemical Gating and Optimization of Molecule/Electrode Coupling. Journal of the American Chemical Society, 2014, 136, 8867-8870.	13.7	100
54	Nanospintronics with carbon nanotubes. Semiconductor Science and Technology, 2006, 21, S78-S95.	2.0	99

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55	Quantum Hall Effect in Graphene with Superconducting Electrodes. Nano Letters, 2012, 12, 1942-1945.	9.1	99
56	Snake trajectories in ultraclean graphene pâ€“n junctions. Nature Communications, 2015, 6, 6470.	12.8	93
57	Intrinsic Thermal Vibrations of Suspended Doubly Clamped Single-Wall Carbon Nanotubes. Nano Letters, 2003, 3, 1577-1580.	9.1	90
58	Giant Fluctuations and Gate Control of the g-Factor in InAs Nanowire Quantum Dots. Nano Letters, 2008, 8, 3932-3935.	9.1	90
59	High-detection efficiency and low-timing jitter with amorphous superconducting nanowire single-photon detectors. Applied Physics Letters, 2018, 112, .	3.3	89
60	Selective Sodium Sensing with Gold-Coated Silicon Nanowire Field-Effect Transistors in a Differential Setup. ACS Nano, 2013, 7, 5978-5983.	14.6	88
61	New Generation of MoirÃ© Superlattices in Doubly Aligned hBN/Graphene/hBN Heterostructures. Nano Letters, 2019, 19, 2371-2376.	9.1	85
62	Crossover between classical and quantum shot noise in chaotic cavities. Nature, 2002, 415, 765-767.	27.8	84
63	Shot Noise by Quantum Scattering in Chaotic Cavities. Physical Review Letters, 2001, 86, 2114-2117.	7.8	83
64	Finite-bias visibility dependence in an electronic Mach-Zehnder interferometer. Physical Review B, 2009, 79, .	3.2	80
65	Nonlocal spectroscopy of Andreev bound states. Physical Review B, 2014, 89, .	3.2	80
66	Ordered nanoparticle arrays interconnected by molecular linkers: electronic and optoelectronic properties. Chemical Society Reviews, 2015, 44, 999-1014.	38.1	80
67	Multiple Andreev reflection and giant excess noise in diffusive superconductor/normal-metal/superconductor junctions. Physical Review B, 2000, 62, 4079-4085.	3.2	77
68	High mobility graphene ion-sensitive field-effect transistors by noncovalent functionalization. Nanoscale, 2013, 5, 12104.	5.6	77
69	Molecular states in carbon nanotube double quantum dots. Physical Review B, 2006, 74, .	3.2	75
70	Ferromagnetic Proximity Effect in a Ferromagnetâ€“Quantum-Dotâ€“Superconductor Device. Physical Review Letters, 2010, 104, 246804.	7.8	75
71	Scalable Tight-Binding Model for Graphene. Physical Review Letters, 2015, 114, 036601.	7.8	74
72	Fabrication of metallic nanowires with a scanning tunneling microscope. Applied Physics Letters, 1995, 66, 1325-1327.	3.3	73

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73	Feedback controlled electromigration in four-terminal nanojunctions. Applied Physics Letters, 2007, 91, 053118.	3.3	72
74	Separation of magnetic and topographic effects in force microscopy. Journal of Applied Physics, 1990, 67, 7278-7280.	2.5	68
75	High-yield fabrication of nm-size gaps in monolayer CVD graphene. Nanoscale, 2014, 6, 7249-7254.	5.6	68
76	New Cruciform Structures:â€‰ Toward Coordination Induced Single Molecule Switches. Journal of Organic Chemistry, 2007, 72, 8337-8344.	3.2	66
77	Charge flow during metal-insulator contact. Physical Review B, 1992, 45, 3861-3864.	3.2	64
78	Guiding of Electrons in a Few-Mode Ballistic Graphene Channel. Nano Letters, 2015, 15, 5819-5825.	9.1	64
79	Spectroscopy of Molecular Junction Networks Obtained by Place Exchange in 2D Nanoparticle Arrays. Journal of Physical Chemistry C, 2007, 111, 18445-18450.	3.1	61
80	Magnetic Field Tuning and Quantum Interference in a Cooper Pair Splitter. Physical Review Letters, 2015, 115, 227003.	7.8	59
81	Quantum dot coupled to a normal and a superconducting lead. Nanotechnology, 2004, 15, S479-S482.	2.6	58
82	Kondo effect in carbon nanotubes at half filling. Physical Review B, 2004, 70, .	3.2	57
83	Electrical Conductance of Atomic Contacts in Liquid Environments. Small, 2005, 1, 1067-1070.	10.0	56
84	One-Dimensional Edge Transport in Few-Layer WTe₂. Nano Letters, 2020, 20, 4228-4233.	9.1	56
85	True Reference Nanosensor Realized with Silicon Nanowires. Langmuir, 2012, 28, 9899-9905.	3.5	55
86	Quantum-Confined Stark Effect in a MoS₂ Monolayer van der Waals Heterostructure. Nano Letters, 2018, 18, 1070-1074.	9.1	55
87	The Hanbury Brown and Twiss experiment with fermions. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 314-317.	2.7	54
88	Andreev bound states probed in three-terminal quantum dots. Physical Review B, 2017, 96, .	3.2	54
89	Electrical spin injection in multiwall carbon nanotubes with transparent ferromagnetic contacts. Applied Physics Letters, 2005, 86, 112109.	3.3	53
90	Sensing with Advanced Computing Technology: Fin Field-Effect Transistors with High-k Gate Stack on Bulk Silicon. ACS Nano, 2015, 9, 4872-4881.	14.6	53

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91	Signal-to-noise ratio in dual-gated silicon nanoribbon field-effect sensors. Applied Physics Letters, 2011, 98, .	3.3	51
92	Orientation and Positioning of DNA Molecules with an Electric Field Technique. Single Molecules, 2002, 3, 189-193.	0.9	50
93	Physical Properties of Multi-wall Nanotubes. , 2001, , 329-391.		47
94	Contact resistance dependence of crossed Andreev reflection. Europhysics Letters, 2009, 87, 27011.	2.0	47
95	Nanometer lithography on silicon and hydrogenated amorphous silicon with low energy electrons. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 805.	1.6	46
96	Sensitivity of single multiwalled carbon nanotubes to the environment. New Journal of Physics, 2003, 5, 138-138.	2.9	46
97	Investigation of the dominant 1/f noise source in silicon nanowire sensors. Sensors and Actuators B: Chemical, 2014, 191, 270-275.	7.8	46
98	Electron heating effects in diffusive metal wires. Applied Physics Letters, 1997, 71, 773-775.	3.3	45
99	Large-scale fabrication of BN tunnel barriers for graphene spintronics. Journal of Applied Physics, 2014, 116, 074306.	2.5	45
100	Local electrical tuning of the nonlocal signals in a Cooper pair splitter. Physical Review B, 2014, 90, .	3.2	44
101	Gate tuneable beamsplitter in ballistic graphene. Applied Physics Letters, 2015, 107, .	3.3	44
102	Spin transport in fully hexagonal boron nitride encapsulated graphene. Physical Review B, 2016, 93, .	3.2	44
103	Ambipolar field-effect transistor on as-grown single-wall carbon nanotubes. Nanotechnology, 2003, 14, 327-331.	2.6	43
104	Positive Cross Correlations in a Normal-Conducting Fermionic Beam Splitter. Physical Review Letters, 2006, 96, 046804.	7.8	43
105	Permalloy-based carbon nanotube spin-valve. Applied Physics Letters, 2010, 97, .	3.3	41
106	Resonant and Inelastic Andreev Tunneling Observed on a Carbon Nanotube Quantum Dot. Physical Review Letters, 2015, 115, 216801.	7.8	41
107	Fabrication and characterization of freestanding Si/Cr micro- and nanospirals. Microelectronic Engineering, 2006, 83, 1237-1240.	2.4	40
108	Single-electron tunneling up to room temperature. Physica Scripta, 1992, T45, 289-291.	2.5	39

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109	Entanglement witnessing and quantum cryptography with nonideal ferromagnetic detectors. Physical Review B, 2014, 89, .	3.2	38
110	Magnetic-Field-Independent Subgap States in Hybrid Rashba Nanowires. Physical Review Letters, 2020, 125, 017701.	7.8	38
111	Clean carbon nanotubes coupled to superconducting impedance-matching circuits. Nature Communications, 2015, 6, 7165.	12.8	37
112	Interlinking Au nanoparticles in 2D arrays via conjugated dithiolated molecules. New Journal of Physics, 2008, 10, 065019.	2.9	36
113	Controlled formation of metallic nanowires via Au nanoparticle ac trapping. Nanotechnology, 2007, 18, 235202.	2.6	35
114	Resistless high resolution optical lithography on silicon. Applied Physics Letters, 1995, 67, 2989-2991.	3.3	34
115	Cooper-pair splitting in two parallel InAs nanowires. New Journal of Physics, 2018, 20, 063021.	2.9	34
116	GHz nanomechanical resonator in an ultraclean suspended graphene pâ€“n junction. Nanoscale, 2019, 11, 4355-4361.	5.6	34
117	Boosting proximity spinâ€“orbit coupling in graphene/WSe2 heterostructures via hydrostatic pressure. Npj 2D Materials and Applications, 2021, 5, .	7.9	34
118	Tetrathiafulvalene-based molecular nanowires. Chemical Communications, 2007, , 4854.	4.1	33
119	Size Dependent Thermopower in Mesoscopic AuFe Wires. Physical Review Letters, 1998, 81, 2982-2985.	7.8	32
120	Resonant tunnelling through a C60molecular junction in a liquid environment. Nanotechnology, 2005, 16, 2143-2148.	2.6	32
121	Optically probing the detection mechanism in a molybdenum silicide superconducting nanowire single-photon detector. Applied Physics Letters, 2017, 110, .	3.3	32
122	Fabry-PÃ©rot Resonances in a Graphene/hBN MoirÃ© Superlattice. Nano Letters, 2017, 17, 328-333.	9.1	32
123	Shot-noise and conductance measurements of transparent superconductor/two-dimensional electron gas junctions. Physical Review B, 2005, 72, .	3.2	31
124	Forceâ€“conductance correlation in individual molecular junctions. Nanotechnology, 2012, 23, 365201.	2.6	30
125	Rendering graphene supports hydrophilic with non-covalent aromatic functionalization for transmission electron microscopy. Applied Physics Letters, 2014, 104, .	3.3	30
126	Controlling spin in an electronic interferometer with spin-active interfaces. Europhysics Letters, 2006, 74, 320-326.	2.0	29

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127	Spin symmetry of the bilayer graphene ground state. Physical Review B, 2013, 87, .	3.2	29
128	In Situ Strain Tuning in hBN-Encapsulated Graphene Electronic Devices. Nano Letters, 2019, 19, 4097-4102.	9.1	29
129	Spectroscopy of the superconducting proximity effect in nanowires using integrated quantum dots. Communications Physics, 2019, 2, .	5.3	28
130	Conductance values of alkanedithiol molecular junctions. New Journal of Physics, 2008, 10, 065018.	2.9	27
131	Restoring the Electrical Properties of CVD Graphene via Physisorption of Molecular Adsorbates. ACS Applied Materials & Interfaces, 2017, 9, 25014-25022.	8.0	27
132	Microwave Photodetection in an Ultraclean Suspended Bilayer Graphene pâ€“n Junction. Nano Letters, 2016, 16, 6988-6993.	9.1	26
133	Fabrication and superconducting properties of nanostructured SFS contacts. Journal of Magnetism and Magnetic Materials, 2002, 240, 598-600.	2.3	25
134	Charge and spin transport in carbon nanotubes. Semiconductor Science and Technology, 2006, 21, S1-S9.	2.0	25
135	Optimized fabrication and characterization of carbon nanotube spin valves. Journal of Applied Physics, 2014, 115, .	2.5	25
136	Scaling of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>â^•</mml:mo><mml:mi>f</mml:mi></mml:math>noise in tunable break junctions. Physical Review B, 2008, 78, .	3.2	24
137	Magnetic field and contact resistance dependence of non-local charge imbalance. Nanotechnology, 2010, 21, 274002.	2.6	24
138	Random telegraph signals in molecular junctions. Journal of Physics Condensed Matter, 2014, 26, 474202.	1.8	24
139	A double quantum dot spin valve. Communications Physics, 2020, 3, .	5.3	23
140	Superconductivity in type-II Weyl-semimetal WTe2 induced by a normal metal contact. Journal of Applied Physics, 2021, 129, .	2.5	23
141	Dual Gated Silicon Nanowire Field Effect Transistors. Procedia Chemistry, 2009, 1, 678-681.	0.7	22
142	Competing surface reactions limiting the performance of ion-sensitive field-effect transistors. Sensors and Actuators B: Chemical, 2015, 220, 500-507.	7.8	22
143	Gigahertz Quantized Charge Pumping in Bottom-Gate-Defined InAs Nanowire Quantum Dots. Nano Letters, 2015, 15, 4585-4590.	9.1	22
144	Single-electron tunneling in double-barrier junctions by scanning tunneling microscopy. Applied Surface Science, 1993, 67, 222-227.	6.1	21

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145	Decapitation of tungsten field emitter tips during sputter sharpening. Surface Science, 1995, 339, L925-L930.	1.9	21
146	Shot noise of series quantum point contacts intercalating chaotic cavities. Physical Review B, 2002, 66, .	3.2	21
147	Oligoaryl Cruciform Structures as Model Compounds for Coordinationâ€Induced Singleâ€Molecule Switches. European Journal of Organic Chemistry, 2010, 2010, 833-845.	2.4	21
148	Fabrication of ballistic suspended graphene with local-gating. Carbon, 2014, 79, 486-492.	10.3	21
149	Spin transport in two-layer-CVD-hBN/graphene/hBN heterostructures. Physical Review B, 2018, 97, .	3.2	21
150	Signatures of van Hove Singularities Probed by the Supercurrent in a Graphene-hBN Superlattice. Physical Review Letters, 2018, 121, 137701.	7.8	21
151	Nonorganic evaporation mask for superconducting nanodevices. Microelectronic Engineering, 1999, 46, 149-152.	2.4	20
152	Charge Noise in Organic Electrochemical Transistors. Physical Review Applied, 2017, 7, .	3.8	20
153	Giant Valley-Isospin Conductance Oscillations in Ballistic Graphene. Nano Letters, 2017, 17, 5389-5393.	9.1	20
154	Coexistence of classical snake states and Aharonov-Bohm oscillations along graphene <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>n</mml:mi></mml:mrow></mml:math> junctions. Physical Review B, 2018, 98, .	3.2	20
155	Mobility Enhancement in Graphene by inÂsitu Reduction of Random Strain Fluctuations. Physical Review Letters, 2020, 124, 157701.	7.8	20
156	Magnetic, Thermal, and Topographic Imaging with a Nanometer-Scale SQUID-On-Lever Scanning Probe. Physical Review Applied, 2022, 17, .	3.8	20
157	Scanning tunneling microscopy as a tool to study surface roughness of sputtered thin films. Journal of Applied Physics, 1989, 66, 4258-4261.	2.5	19
158	Tailoring the Band Structure of Twisted Double Bilayer Graphene with Pressure. Nano Letters, 2021, 21, 8777-8784.	9.1	19
159	Siliconâ€Based Ionâ€Sensitive Fieldâ€Effect Transistor Shows Negligible Dependence on Salt Concentration at Constant pH. ChemPhysChem, 2012, 13, 1157-1160.	2.1	18
160	Ultraclean Single, Double, and Triple Carbon Nanotube Quantum Dots with Recessed Re Bottom Gates. Nano Letters, 2013, 13, 4522-4526.	9.1	18
161	Electrolyte gate dependent high-frequency measurement of graphene field-effect transistor for sensing applications. Applied Physics Letters, 2014, 104, 013102.	3.3	18
162	Large spatial extension of the zero-energy Yuâ€“Shibaâ€“Rusinov state in a magnetic field. Nature Communications, 2020, 11, 1834.	12.8	17

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163	Intrinsically-limited timing jitter in molybdenum silicide superconducting nanowire single-photon detectors. Journal of Applied Physics, 2019, 126, 164501.	2.5	16
164	Circuit Quantum Electrodynamics with Carbon-Nanotube-Based Superconducting Quantum Circuits. Physical Review Applied, 2021, 15, .	3.8	16
165	New method of transport measurements on van der Waals heterostructures under pressure. Journal of Applied Physics, 2021, 130, .	2.5	16
166	Conductance properties of nanotubes coupled to superconducting leads: signatures of Andreev states dynamics. Solid State Communications, 2004, 131, 625-630.	1.9	15
167	Sensor system including silicon nanowire ion sensitive FET arrays and CMOS readout. Sensors and Actuators B: Chemical, 2014, 204, 568-577.	7.8	15
168	Label-Free FimH Protein Interaction Analysis Using Silicon Nanoribbon BioFETs. ACS Sensors, 2016, 1, 781-788.	7.8	15
169	Subgap resonant quasiparticle transport in normal-superconductor quantum dot devices. Applied Physics Letters, 2016, 108, 172604.	3.3	15
170	Operation of parallel SNSPDs at high detection rates. Superconductor Science and Technology, 2021, 34, 024002.	3.5	15
171	Superconducting Contacts to a Monolayer Semiconductor. Nano Letters, 2021, 21, 5614-5619.	9.1	15
172	Preamplifier for electricâ€current noise measurements at low temperatures. Review of Scientific Instruments, 1996, 67, 2977-2980.	1.3	14
173	The amplitude of non-equilibrium quantum interference in metallic mesoscopic systems. Europhysics Letters, 2002, 59, 437-443.	2.0	14
174	Shot Noise of a Quantum Dot Measured with Gigahertz Impedance Matching. Physical Review Applied, 2015, 4, .	3.8	14
175	Formation Mechanism of Metalâ€“Moleculeâ€“Metal Junctions: Molecule-Assisted Migration on Metal Defects. Journal of Physical Chemistry C, 2015, 119, 19438-19451.	3.1	14
176	Electronic and Mechanical Properties of Carbon Nanotubes. , 2002, , 297-320.		13
177	Large oscillating nonlocal voltage in multiterminal single-wall carbon nanotube devices. Physical Review B, 2008, 77, .	3.2	13
178	Superconductivity-enhanced conductance fluctuations in few-layer graphene. Nanotechnology, 2010, 21, 274005.	2.6	13
179	Carbon nanotube quantum dots on hexagonal boron nitride. Applied Physics Letters, 2014, 105, .	3.3	13
180	Phase-dependent microwave response of a graphene Josephson junction. Physical Review Research, 2022, 4, .	3.6	13

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181	Homogeneity of bilayer graphene. Solid State Communications, 2012, 152, 2053-2057.	1.9	12
182	Comparative study of single and multi domain CVD graphene using largeâ€area Raman mapping and electrical transport characterization. Physica Status Solidi - Rapid Research Letters, 2016, 10, 807-811.	2.4	12
183	Highly symmetric and tunable tunnel couplings in InAs/InP nanowire heterostructure quantum dots. Nanotechnology, 2020, 31, 135003.	2.6	12
184	Polarization charge relaxation and the Coulomb staircase in ultrasmall double-barrier tunnel junctions. Physica B: Condensed Matter, 1993, 189, 218-224.	2.7	11
185	A Verilog-A model for silicon nanowire biosensors: From theory to verification. Sensors and Actuators B: Chemical, 2013, 179, 293-300.	7.8	11
186	To Screen or Not to Screen, That is the Question!. Physics Magazine, 2013, 6, .	0.1	11
187	Compact SQUID Realized in a Double-Layer Graphene Heterostructure. Nano Letters, 2020, 20, 7129-7135.	9.1	11
188	NMR study of the structural properties of electrodeposited Co/Cu multilayers. Journal of Magnetism and Magnetic Materials, 1996, 156, 29-30.	2.3	10
189	Comment on â€œMagnetoresistance and differential conductance in mutliwalled carbon nanotubesâ€. Physical Review B, 2001, 64, .	3.2	10
190	Defining and controlling double quantum dots in single-walled carbon nanotubes. Semiconductor Science and Technology, 2006, 21, S64-S68.	2.0	10
191	Kondo effect and spin-active scattering in ferromagnet-superconductor junctions. Physical Review B, 2012, 85, .	3.2	10
192	g-factor anisotropy in nanowire-based InAs quantum dots. , 2013, , .		10
193	Implementing Silicon Nanoribbon Field-Effect Transistors as Arrays for Multiple Ion Detection. Biosensors, 2016, 6, 21.	4.7	10
194	Signatures of single quantum dots in graphene nanoribbons within the quantum Hall regime. Nanoscale, 2016, 8, 11480-11486.	5.6	10
195	Gate-controlled conductance enhancement from quantum Hall channels along graphene pâ€“n junctions. Nanoscale, 2016, 8, 19910-19916.	5.6	10
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