

# Lloyd C L Hollenberg

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

251  
papers

12,829  
citations

52  
h-index

108  
g-index

292  
ext. papers

15,086  
ext. citations

6.7  
avg, IF

6.33  
L-index

#	Paper	IF	Citations
251	Valley population of donor states in highly strained silicon. <i>Materials for Quantum Technology</i> , <b>2022</b> , 2, 025002		1
250	Quantum Support Vector Machines for Continuum Suppression in B Meson Decays. <i>Computing and Software for Big Science</i> , <b>2021</b> , 5, 1	6	3
249	Advances in the Surface Functionalization of Nanodiamonds for Biological Applications: A Review. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 9985-10005	5.6	6
248	Polarization Transfer to External Nuclear Spins Using Ensembles of Nitrogen-Vacancy Centers. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	5
247	Long-Range Surface-Assisted Molecule-Molecule Hybridization. <i>Small</i> , <b>2021</b> , 17, e2005974	11	2
246	Whole-Device Entanglement in a 65-Qubit Superconducting Quantum Computer. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2100061	4.3	5
245	Generation and verification of 27-qubit Greenberger-Horne-Zeilinger states in a superconducting quantum computer. <i>Journal of Physics Communications</i> , <b>2021</b> , 5, 095004	1.2	5
244	Performance Optimization for Drift-Robust Fidelity Improvement of Two-Qubit Gates. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	4
243	Prospects for nuclear spin hyperpolarization of molecular samples using nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	7
242	An integrated widefield probe for practical diamond nitrogen-vacancy microscopy. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 254002	3.4	0
241	Demonstration of non-Markovian process characterisation and control on a quantum processor. <i>Nature Communications</i> , <b>2020</b> , 11, 6301	17.4	7
240	Epitaxial Formation of SiC on (100) Diamond. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2003-2009	4	1
239	Quantum Magnetic Imaging of Iron Biomineralization in Teeth of the Chiton <i>Acanthopleura hirtosa</i> . <i>Small Methods</i> , <b>2020</b> , 4, 1900754	12.8	13
238	Laser Modulation of Superconductivity in a Cryogenic Wide-field Nitrogen-Vacancy Microscope. <i>Nano Letters</i> , <b>2020</b> , 20, 1855-1861	11.5	12
237	Enhanced Widefield Quantum Sensing with Nitrogen-Vacancy Ensembles Using Diamond Nanopillar Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13421-13427	9.5	17
236	Observation of a Quantum Phase from Classical Rotation of a Single Spin. <i>Physical Review Letters</i> , <b>2020</b> , 124, 020401	7.4	9
235	Comparison of different methods of nitrogen-vacancy layer formation in diamond for wide-field quantum microscopy. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	4

234	Investigating Immersive Virtual Reality as an Educational Tool for Quantum Computing <b>2020</b> ,		1
233	Interplay between geometric and dynamic phases in a single-spin system. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
232	Investigation of charge carrier trapping in H-terminated diamond devices. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 143507	3.4	3
231	Valley interference and spin exchange at the atomic scale in silicon. <i>Nature Communications</i> , <b>2020</b> , 11, 6124	17.4	7
230	Framework for atomic-level characterisation of quantum computer arrays by machine learning. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	7
229	Improved Current Density and Magnetization Reconstruction Through Vector Magnetic Field Measurements. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	11
228	Imaging Domain Reversal in an Ultrathin Van der Waals Ferromagnet. <i>Advanced Materials</i> , <b>2020</b> , 32, e200314	18	18
227	Nonvanishing effect of detuning errors in dynamical-decoupling-based quantum sensing experiments. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	9
226	Apparent delocalization of the current density in metallic wires observed with diamond nitrogen-vacancy magnetometry. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12
225	Microscopic Imaging of the Stress Tensor in Diamond Using in Situ Quantum Sensors. <i>Nano Letters</i> , <b>2019</b> , 19, 4543-4550	11.5	27
224	Magnetic Materials: Rapid, High-Resolution Magnetic Microscopy of Single Magnetic Microbeads (Small 18/2019). <i>Small</i> , <b>2019</b> , 15, 1970097	11	
223	Rapid, High-Resolution Magnetic Microscopy of Single Magnetic Microbeads. <i>Small</i> , <b>2019</b> , 15, e1805159	11	10
222	Imaging Graphene Field-Effect Transistors on Diamond Using Nitrogen-Vacancy Microscopy. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	13
221	Entanglement in a 20-Qubit Superconducting Quantum Computer. <i>Scientific Reports</i> , <b>2019</b> , 9, 13465	4.9	33
220	Quantum Bath Control with Nuclear Spin State Selectivity via Pulse-Adjusted Dynamical Decoupling. <i>Physical Review Letters</i> , <b>2019</b> , 123, 210401	7.4	5
219	Evidence for Primal sp <sup>2</sup> Defects at the Diamond Surface: Candidates for Electron Trapping and Noise Sources. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801449	4.6	40
218	Two-electron spin correlations in precision placed donors in silicon. <i>Nature Communications</i> , <b>2018</b> , 9, 980	17.4	39
217	High precision single qubit tuning via thermo-magnetic field control. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 103103	3.4	6

216	Spin properties of dense near-surface ensembles of nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	54
215	Magnetically sensitive nanodiamond-doped tellurite glass fibers. <i>Scientific Reports</i> , <b>2018</b> , 8, 1268	4.9	31
214	Two-electron states of a group-V donor in silicon from atomistic full configuration interactions. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	11
213	Quantum measurement of a rapidly rotating spin qubit in diamond. <i>Science Advances</i> , <b>2018</b> , 4, eaar7691	14.3	19
212	Impact of Surface Functionalization on the Quantum Coherence of Nitrogen-Vacancy Centers in Nanodiamonds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13143-13149	9.5	29
211	Measurements and atomistic theory of electron g-factor anisotropy for phosphorus donors in strained silicon. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	2
210	Proximity-Induced Artefacts in Magnetic Imaging with Nitrogen-Vacancy Ensembles in Diamond. <i>Sensors</i> , <b>2018</b> , 18,	3.8	11
209	Quantum probe hyperpolarisation of molecular nuclear spins. <i>Nature Communications</i> , <b>2018</b> , 9, 1246	17.4	35
208	Magnetic noise from ultrathin abrasively deposited materials on diamond. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	9
207	The Yidaki: A Triumph of Mind over Matter in Tribute to Joe Gumbula. <i>Preservation, Digital Technology and Culture</i> , <b>2018</b> , 47, 163-165	0.5	
206	T2-limited sensing of static magnetic fields via fast rotation of quantum spins. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5
205	Spin-orbit coupling in silicon for electrons bound to donors. <i>Npj Quantum Information</i> , <b>2018</b> , 4,	8.6	9
204	Spatial mapping of band bending in semiconductor devices using in situ quantum sensors. <i>Nature Electronics</i> , <b>2018</b> , 1, 502-507	28.4	50
203	Superadiabatic quantum state transfer in spin chains. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	20
202	Quantum imaging of current flow in graphene. <i>Science Advances</i> , <b>2017</b> , 3, e1602429	14.3	118
201	Simulations of Shor's algorithm using matrix product states. <i>Quantum Information Processing</i> , <b>2017</b> , 16, 1	1.6	8
200	Atomically engineered electron spin lifetimes of 30 s in silicon. <i>Science Advances</i> , <b>2017</b> , 3, e1602811	14.3	32
199	Fan-out Estimation in Spin-based Quantum Computer Scale-up. <i>Scientific Reports</i> , <b>2017</b> , 7, 13386	4.9	2

198	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. <i>Nature Communications</i> , <b>2017</b> , 8, 458	17.4	44
197	Magnetic pseudo-fields in a rotating electron-nuclear spin system. <i>Nature Physics</i> , <b>2017</b> , 13, 1070-1073	16.2	15
196	Ab initio calculation of energy levels for phosphorus donors in silicon. <i>Scientific Reports</i> , <b>2017</b> , 7, 6010	4.9	8
195	Non-Neurotoxic Nanodiamond Probes for Intraneuronal Temperature Mapping. <i>ACS Nano</i> , <b>2017</b> , 11, 12077-12086	16.7	73
194	Environmentally Mediated Coherent Control of a Spin Qubit in Diamond. <i>Physical Review Letters</i> , <b>2017</b> , 118, 167204	7.4	7
193	Microwave-free nuclear magnetic resonance at molecular scales. <i>Nature Communications</i> , <b>2017</b> , 8, 15950	17.4	20
192	Towards visualisation of central-cell-effects in scanning tunnelling microscope images of subsurface dopant qubits in silicon. <i>Nanoscale</i> , <b>2017</b> , 9, 17013-17019	7.7	4
191	Magneto-optical imaging of thin magnetic films using spins in diamond. <i>Scientific Reports</i> , <b>2016</b> , 6, 22797	4.9	55
190	A quantum spin-probe molecular microscope. <i>Nature Communications</i> , <b>2016</b> , 7, 12667	17.4	17
189	Highly tunable exchange in donor qubits in silicon. <i>Npj Quantum Information</i> , <b>2016</b> , 2,	8.6	31
188	Spatial metrology of dopants in silicon with exact lattice site precision. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 763-8	28.7	37
187	Scanning Nanospin Ensemble Microscope for Nanoscale Magnetic and Thermal Imaging. <i>Nano Letters</i> , <b>2016</b> , 16, 326-33	11.5	65
186	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. <i>Nature Communications</i> , <b>2016</b> , 7, 10211	17.4	65
185	Quantum simulation of the Hubbard model with dopant atoms in silicon. <i>Nature Communications</i> , <b>2016</b> , 7, 11342	17.4	54
184	Wide-band nanoscale magnetic resonance spectroscopy using quantum relaxation of a single spin in diamond. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	29
183	A surface code quantum computer in silicon. <i>Science Advances</i> , <b>2015</b> , 1, e1500707	14.3	137
182	A tight-binding study of single-atom transistors. <i>Small</i> , <b>2015</b> , 11, 374-81	11	11
181	Strain and electric field control of hyperfine interactions for donor spin qubits in silicon. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	12

180	Surface code continuous quantum error correction using feedback <b>2015</b> ,		2
179	Spatially resolving valley quantum interference of a donor in silicon. <i>Nature Materials</i> , <b>2014</b> , 13, 605-10	27	68
178	Electronic properties and metrology applications of the diamond NV- center under pressure. <i>Physical Review Letters</i> , <b>2014</b> , 112, 047601	7.4	208
177	Ab initio electronic properties of dual phosphorus monolayers in silicon. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 443	5	5
176	Spin blockade and exchange in Coulomb-confined silicon double quantum dots. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 430-5	28.7	89
175	Designing a large scale quantum computer with atomistic simulations <b>2014</b> ,		1
174	Spin-lattice relaxation times of single donors and donor clusters in silicon. <i>Physical Review Letters</i> , <b>2014</b> , 113, 246406	7.4	15
173	In vivo imaging and tracking of individual nanodiamonds in drosophila melanogaster embryos. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 1250-61	3.5	32
172	Temperature shifts of the resonances of the NV center in diamond. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	90
171	Non-Abelian geometric phase in the diamond nitrogen-vacancy center. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	10
170	Towards single-molecule NMR detection and spectroscopy using single spins in diamond. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	21
169	Analytic solutions to the central-spin problem for nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	31
168	Silicon quantum electronics. <i>Reviews of Modern Physics</i> , <b>2013</b> , 85, 961-1019	40.5	679
167	Ab initio calculation of valley splitting in monolayer doped phosphorus in silicon. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 111	5	21
166	Ambient nanoscale sensing with single spins using quantum decoherence. <i>New Journal of Physics</i> , <b>2013</b> , 15, 073042	2.9	56
165	Atomistic modeling of metallic nanowires in silicon. <i>Nanoscale</i> , <b>2013</b> , 5, 8666-74	7.7	16
164	Nanoscale magnetometry through quantum control of nitrogen-vacancy centres in rotationally diffusing nanodiamonds. <i>New Journal of Physics</i> , <b>2013</b> , 15, 013041	2.9	18
163	Noninvasive spatial metrology of single-atom devices. <i>Nano Letters</i> , <b>2013</b> , 13, 1903-9	11.5	25

162	Ab Initio electronic properties of monolayer phosphorus nanowires in silicon. <i>Physical Review Letters</i> , <b>2013</b> , 110, 126802	7.4	15
161	Nanoscale sensing and imaging in biology using the nitrogen-vacancy center in diamond. <i>MRS Bulletin</i> , <b>2013</b> , 38, 162-167	3.2	18
160	The nitrogen-vacancy colour centre in diamond. <i>Physics Reports</i> , <b>2013</b> , 528, 1-45	27.7	1363
159	Detection of atomic spin labels in a lipid bilayer using a single-spin nanodiamond probe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 10894-8	11.5	89
158	Towards practical classical processing for the surface code: Timing analysis. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	23
157	Effective mass theory of monolayer doping in the high-density limit. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	19
156	Electronic properties of multiple adjacent doped Si:P layers: The approach to monolayer confinement. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	10
155	Spectroscopy of a deterministic single-donor device in silicon <b>2012</b> ,		3
154	Ohm's law survives to the atomic scale. <i>Science</i> , <b>2012</b> , 335, 64-7	33.3	246
153	A single-atom transistor. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 242-6	28.7	587
152	High spatial and temporal resolution wide-field imaging of neuron activity using quantum NV-diamond. <i>Scientific Reports</i> , <b>2012</b> , 2, 401	4.9	114
151	Theory of the ground-state spin of the NV-center in diamond. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	180
150	Tuning a spin bath through the quantum-classical transition. <i>Physical Review Letters</i> , <b>2012</b> , 108, 200402	7.4	41
149	Towards practical classical processing for the surface code. <i>Physical Review Letters</i> , <b>2012</b> , 108, 180501	7.4	87
148	Measurable quantum geometric phase from a rotating single spin. <i>Physical Review Letters</i> , <b>2012</b> , 108, 240403	7.4	48
147	Ab initio thermodynamics calculation of the relative concentration of NV and NV0 defects in diamond. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	14
146	Lifetime-enhanced transport in silicon due to spin and valley blockade. <i>Physical Review Letters</i> , <b>2011</b> , 107, 136602	7.4	20
145	Coupling slot-waveguide cavities for large-scale quantum optical devices. <i>Optics Express</i> , <b>2011</b> , 19, 6354-55	3.5	1

144	Reconfigurable quantum metamaterials. <i>Optics Express</i> , <b>2011</b> , 19, 11018-33	3.3	38
143	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 358-63	28.7	452
142	Electric-field sensing using single diamond spins. <i>Nature Physics</i> , <b>2011</b> , 7, 459-463	16.2	720
141	Dynamical decoupling of a single-electron spin at room temperature. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	174
140	Stark tuning of the charge states of a two-donor molecule in silicon. <i>Nanotechnology</i> , <b>2011</b> , 22, 225202	3.4	9
139	Electronic structure of realistically extended atomistically resolved disordered Si:P doped layers. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	28
138	Surface code quantum computing with error rates over 1%. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	177
137	Engineered valley-orbit splittings in quantum-confined nanostructures in silicon. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	26
136	Electric field reduced charging energies and two-electron bound excited states of single donors in silicon. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	18
135	The negatively charged nitrogen-vacancy centre in diamond: the electronic solution. <i>New Journal of Physics</i> , <b>2011</b> , 13, 025019	2.9	143
134	Parallel interaction-free measurement using spatial adiabatic passage. <i>New Journal of Physics</i> , <b>2011</b> , 13, 125002	2.9	5
133	Surface code quantum error correction incorporating accurate error propagation. <i>Quantum Information and Computation</i> , <b>2011</b> , 11, 8-18	0.9	11
132	Single-shot readout of an electron spin in silicon. <i>Nature</i> , <b>2010</b> , 467, 687-91	50.4	505
131	Accessing diamond waveguides and future applications <b>2010</b> ,		2
130	Monitoring ion-channel function in real time through quantum decoherence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 18777-82	11.5	92
129	Probe and control of the reservoir density of states in single-electron devices. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	20
128	Ultrasensitive diamond magnetometry using optimal dynamic decoupling. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	52
127	Thermodynamic stability of neutral Xe defects in diamond. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	9



126	Surface code quantum communication. <i>Physical Review Letters</i> , <b>2010</b> , 104, 180503	7.4	88
125	Top-down pathways to devices with few and single atoms placed to high precision. <i>New Journal of Physics</i> , <b>2010</b> , 12, 065016	2.9	20
124	Coherent electron transport by adiabatic passage in an imperfect donor chain. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	17
123	Experimental implementation of a four-player quantum game. <i>New Journal of Physics</i> , <b>2010</b> , 12, 063031	2.9	27
122	Modeling two-spin dynamics in a noisy environment. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	5
121	Gate-induced g-factor control and dimensional transition for donors in multivalley semiconductors. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	35
120	Single atom-scale diamond defect allows a large Aharonov-Casher phase. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	2
119	Orbital Stark effect and quantum confinement transition of donors in silicon. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	48
118	Mapping donor electron wave function deformations at a sub-Bohr orbit resolution. <i>Physical Review Letters</i> , <b>2009</b> , 103, 106802	7.4	8
117	Atomistic simulations of adiabatic coherent electron transport in triple donor systems. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	25
116	Architecture for high-sensitivity single-shot readout and control of the electron spin of individual donors in silicon. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	70
115	A highly efficient two level diamond based single photon source. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 203103	7.4	48
114	Pulse shaping by coupled cavities: Single photons and qudits. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	12
113	Architectural design for a topological cluster state quantum computer. <i>New Journal of Physics</i> , <b>2009</b> , 11, 083032	2.9	74
112	Coherent tunneling adiabatic passage with the alternating coupling scheme. <i>Nanotechnology</i> , <b>2009</b> , 20, 405402	3.4	20
111	Single photon quantum non-demolition measurements in the presence of inhomogeneous broadening. <i>New Journal of Physics</i> , <b>2009</b> , 11, 093005	2.9	12
110	Equivalence between Bell inequalities and quantum minority games. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 521-524	2.3	18
109	Scanning quantum decoherence microscopy. <i>Nanotechnology</i> , <b>2009</b> , 20, 495401	3.4	79

108	Loss of spin entanglement for accelerated electrons in electric and magnetic fields. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	46
107	Sensing of fluctuating nanoscale magnetic fields using nitrogen-vacancy centers in diamond. <i>Physical Review Letters</i> , <b>2009</b> , 103, 220802	7.4	112
106	Slot-waveguide cavities for optical quantum information applications. <i>Optics Express</i> , <b>2009</b> , 17, 7295-303	3.3	29
105	Nano-manipulation of diamond-based single photon sources. <i>Optics Express</i> , <b>2009</b> , 17, 11287-93	3.3	62
104	Time evolution of the one-dimensional Jaynes-Cummings-Hubbard Hamiltonian. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	32
103	High-performance diamond-based single-photon sources for quantum communication. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	30
102	Band structure, phase transitions, and semiconductor analogs in one-dimensional solid light systems. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	26
101	Measuring the Charge and Spin States of Electrons on Individual Dopant Atoms in Silicon. <i>Topics in Applied Physics</i> , <b>2009</b> , 169-182	0.5	1
100	Gate-induced quantum-confinement transition of a single dopant atom in a silicon FinFET. <i>Nature Physics</i> , <b>2008</b> , 4, 656-661	16.2	244
99	Asymmetric quantum error correction via code conversion. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	30
98	Spatial adiabatic passage in a realistic triple well structure. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	44
97	Towards a picosecond transform-limited nitrogen-vacancy based single photon source. <i>Optics Express</i> , <b>2008</b> , 16, 6240-50	3.3	62
96	Deterministic optical quantum computer using photonic modules. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	37
95	High-speed quantum gates with cavity quantum electrodynamics. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	38
94	Ab initio electronic and optical properties of the N - v- center in diamond. <i>Physical Review Letters</i> , <b>2008</b> , 101, 226403	7.4	63
93	Quantum phase transitions in photonic cavities with two-level systems. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	59
92	Level spectrum of a single gated arsenic donor in a three terminal geometry. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1117, 103		
91	Atomistic Understanding of a Single Gated Dopant Atom in a MOSFET. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1067, 1		2

90	Visualizing a silicon quantum computer. <i>New Journal of Physics</i> , <b>2008</b> , 10, 125005	2.9	4
89	Transport-based dopant metrology in advanced FinFETs <b>2008</b> ,		6
88	Spatial coherent transport of interacting dilute Bose gases. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	74
87	Transport spectroscopy of a single atom in a FinFET. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 109, 012003	0.3	
86	Photonic module: An on-demand resource for photonic entanglement. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	58
85	Charge State Control and Relaxation in an Atomically Doped Silicon Device. <i>Nano Letters</i> , <b>2007</b> , 7, 2000-2003		49
84	Implementation of Quantum Gates via Optimal Control in the Presence of Cross-talk. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	2
83	Nash equilibria in quantum games with generalized two-parameter strategies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 363, 381-388	2.3	63
82	Information Free Quantum Bus for Generating Stabiliser States. <i>Quantum Information Processing</i> , <b>2007</b> , 6, 229-242	1.6	13
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