

Shinichi Amaha

List of Publications by Year in descending order

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65
papers

1,216
citations

304743

22
h-index

377865

34
g-index

65
all docs

65
docs citations

65
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	A fault-tolerant addressable spin qubit in a natural silicon quantum dot. <i>Science Advances</i> , 2016, 2, e1600694.	10.3	170
2	Enhanced Kondo Effect via Tuned Orbital Degeneracy in a Spin-1/2 Artificial Atom. <i>Physical Review Letters</i> , 2004, 93, .	7.8	108
3	Molecular phases in coupled quantum dots. <i>Physical Review B</i> , 2004, 69, .	3.2	58
4	Quantum non-demolition measurement of an electron spin qubit. <i>Nature Nanotechnology</i> , 2019, 14, 555-560.	31.5	52
5	Two- and Three-Electron Pauli Spin Blockade in Series-Coupled Triple Quantum Dots. <i>Physical Review Letters</i> , 2013, 110, 016803.	7.8	46
6	Quantum Dephasing in a Gated GaAs Triple Quantum Dot due to Nonergodic Noise. <i>Physical Review Letters</i> , 2016, 116, 046802.	7.8	46
7	Aharonov-Bohm Oscillations Changed by Indirect Interdot Tunneling via Electrodes in Parallel-Coupled Vertical Double Quantum Dots. <i>Physical Review Letters</i> , 2011, 106, 076801.	7.8	45
8	Robust Single-Shot Spin Measurement with 99.5% Fidelity in a Quantum Dot Array. <i>Physical Review Letters</i> , 2017, 119, 017701.	7.8	45
9	Stability diagrams of laterally coupled triple vertical quantum dots in triangular arrangement. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	44
10	Full control of quadruple quantum dot circuit charge states in the single electron regime. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	39
11	Coherent electron-spin-resonance manipulation of three individual spins in a triple quantum dot. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	38
12	Magnetic field induced transitions in the few-electron ground states of artificial molecules. <i>Solid State Communications</i> , 2001, 119, 183-190.	1.9	37
13	Detection and control of charge states in a quintuple quantum dot. <i>Scientific Reports</i> , 2016, 6, 39113.	3.3	36
14	Laterally coupled self-assembled InAs quantum dots embedded in resonant tunnel diode with multigate electrodes. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	35
15	Kondo effects in a triangular triple quantum dot with lower symmetries. <i>Physical Review B</i> , 2011, 83, .	3.2	34
16	Coherent transfer of electron spin correlations assisted by dephasing noise. <i>Nature Communications</i> , 2018, 9, 2133.	12.8	34
17	Resonance-hybrid states in a triple quantum dot. <i>Physical Review B</i> , 2012, 85, .	3.2	28
18	Supercurrent through InAs nanowires with highly transparent superconducting contacts. <i>Nanotechnology</i> , 2011, 22, 445701.	2.6	25

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19	Coherent Three-Level Mixing in an Electronic Quantum Dot. <i>Physical Review Letters</i> , 2009, 102, 026808.	7.8	24
20	Fabrication and characterization of a laterally coupled vertical triple quantum dot device. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1322-1324.	2.7	23
21	Four single-spin Rabi oscillations in a quadruple quantum dot. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	23
22	A fast quantum interface between different spin qubit encodings. <i>Nature Communications</i> , 2018, 9, 5066.	12.8	22
23	Coherence of a Driven Electron Spin Qubit Actively Decoupled from Quasistatic Noise. <i>Physical Review X</i> , 2020, 10, .	8.9	22
24	Single-electron Spin Resonance in a Quadruple Quantum Dot. <i>Scientific Reports</i> , 2016, 6, 31820.	3.3	21
25	A triangular triple quantum dot with tunable tunnel couplings. <i>Semiconductor Science and Technology</i> , 2017, 32, 084004.	2.0	21
26	Manipulation of exchange coupling energy in a few-electron double quantum dot. <i>Physical Review B</i> , 2008, 77, .	3.2	20
27	Single dot and strongly coupled double dots at high magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 112-116.	2.7	10
28	Electron spin resonance and nuclear spin pumping in 2DEG quantum Hall system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 928-932.	2.7	9
29	Excitation spectroscopy of few-electron states in artificial diatomic molecules. <i>Physical Review B</i> , 2013, 87, .	3.2	9
30	Spin blockade in a double quantum dot containing three electrons. <i>Physical Review B</i> , 2014, 89, .	3.2	8
31	Two-level anti-crossings high up in the single-particle energy spectrum of a quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1807-1810.	2.7	7
32	Pauli-spin blockade in a vertical double quantum dot holding two to five electrons. <i>Journal of Physics: Conference Series</i> , 2009, 150, 022043.	0.4	7
33	Pauli Spin Blockade and Influence of Hyperfine Interaction in Vertical Quantum Dot Molecule with Six-Electrons. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 023701.	1.6	7
34	Higher-order spin and charge dynamics in a quantum dot-lead hybrid system. <i>Scientific Reports</i> , 2017, 7, 12201.	3.3	7
35	Two level mixing effects probed by resonant tunnelling through vertically coupled quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 174-177.	0.8	6
36	Fast probe of local electronic states in nanostructures utilizing a single-lead quantum dot. <i>Scientific Reports</i> , 2015, 5, 14616.	3.3	6

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37	Transport properties of two laterally coupled vertical quantum dots in series with tunable interdot coupling. Applied Physics Letters, 2010, 97, 062108.	3.3	5
38	Charge states of a collinearly and laterally coupled vertical triple quantum dot device. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 899-901.	2.7	4
39	Coherent level mixing in dot energy spectra measured by magnetoresonant tunneling spectroscopy of vertical quantum dot molecules. Physical Review B, 2010, 81, .	3.2	4
40	Difference in charge and spin dynamics in a quantum dot-lead coupled system. Physical Review B, 2019, 99, .	3.2	4
41	Elastic and inelastic tunneling through one-electron and two-electron states in a vertical double quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2854-2857.	0.8	3
42	Singlet-triplet transition induced by Zeeman energy in weakly coupled vertical double quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1139-1141.	2.7	3
43	Modeling single-particle energy levels and resonance currents in a coherent electronic quantum dot mixer. Applied Physics Letters, 2009, 94, 222101.	3.3	3
44	Slow and Fast Electron Channels in a Coherent Quantum Dot Mixer. Japanese Journal of Applied Physics, 2010, 49, 04DJ03.	1.5	3
45	Spin blockade with spin singlet electrons. Applied Physics Letters, 2012, 101, 263108.	3.3	3
46	Thermally assisted Pauli spin blockade in double quantum dots. Physical Review B, 2021, 103, .	3.2	3
47	Series-Coupled Triple Quantum Dot Molecules. Japanese Journal of Applied Physics, 2012, 51, 02BJ06.	1.5	2
48	Observation of anti-bonding excited state in charging diagram of a few-electron double dot. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1238-1240.	2.7	1
49	Phonon induced coherence in multi-level quantum dot system. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1690-1692.	2.7	1
50	Effects of observation on quantum interference in a laterally coupled double quantum dot using a quantum dot charge sensor. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 852-855.	2.7	1
51	Critical Behavior of Alternately Pumped Nuclear Spins in Quantum Dots. Physical Review Letters, 2015, 115, 186803.	7.8	1
52	Vanishing current hysteresis under competing nuclear spin pumping processes in a quadruplet spin-blockaded double quantum dot. Applied Physics Letters, 2015, 106, 172401.	3.3	1
53	Observation of the singlet and triplet states in a hybrid vertical-lateral double dot. AIP Conference Proceedings, 2007, , .	0.4	1
54	Series-Coupled Triple Quantum Dot Molecules. Japanese Journal of Applied Physics, 2012, 51, 02BJ06.	1.5	1

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55	Rectifying Behavior in Laterally Coupled Self-Assembled Quantum Dots with Asymmetric Tunneling Barriers. Applied Physics Express, 2009, 2, 014501.	2.4	0
56	Scheme for coherently quenching resonant current in a three-level quantum dot energy level mixer. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 940-943.	0.8	0
57	Gate adjustable coherent three and four level mixing in a vertical quantum dot molecule. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2588-2591.	2.7	0
58	Branch Current Behavior at Two Level Anti-crossings in Vertical Quantum Dot Single-particle Spectra. , 2010, , .		0
59	Characterization and Modeling of Single-particle Energy Levels and Resonant Currents in a Coherent Quantum Dot Mixer. AIP Conference Proceedings, 2011, , .	0.4	0
60	Coexistence of parallel and series current paths in parallel-coupled double quantum dots in nonlinear transport regime. Applied Physics Express, 2021, 14, 105001.	2.4	0
61	The Kondo Effect in a $S=0/S=1$ Quantum Dot. Journal of the Physical Society of Japan, 2003, 72, 73-76.	1.6	0
62	COULOMB BLOCKADE PROPERTIES OF 4-GATED QUANTUM DOT. , 2008, , .		0
63	LATERALLY COUPLED TRIPLE SELF-ASSEMBLED QUANTUM DOTS. , 2009, , .		0
64	ELECTRON TRANSPORT THROUGH A LATERALLY COUPLED TRIPLE QUANTUM DOT FORMING AHARONOV-BOHM INTERFEROMETER. , 2009, , .		0
65	AHARONOV-BOHM OSCILLATIONS IN PARALLEL COUPLED VERTICAL DOUBLE QUANTUM DOT. , 2009, , .		0