

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	Thermally assisted Pauli spin blockade in double quantum dots. <i>Physical Review B</i> , 2021, 103, .	3.2	3
2	Coexistence of parallel and series current paths in parallel-coupled double quantum dots in nonlinear transport regime. <i>Applied Physics Express</i> , 2021, 14, 105001.	2.4	0
3	Coherence of a Driven Electron Spin Qubit Actively Decoupled from Quasistatic Noise. <i>Physical Review X</i> , 2020, 10, .	8.9	22
4	Quantum non-demolition measurement of an electron spin qubit. <i>Nature Nanotechnology</i> , 2019, 14, 555-560.	31.5	52
5	Difference in charge and spin dynamics in a quantum dot-lead coupled system. <i>Physical Review B</i> , 2019, 99, .	3.2	4
6	A fast quantum interface between different spin qubit encodings. <i>Nature Communications</i> , 2018, 9, 5066.	12.8	22
7	Four single-spin Rabi oscillations in a quadruple quantum dot. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	23
8	Coherent transfer of electron spin correlations assisted by dephasing noise. <i>Nature Communications</i> , 2018, 9, 2133.	12.8	34
9	A triangular triple quantum dot with tunable tunnel couplings. <i>Semiconductor Science and Technology</i> , 2017, 32, 084004.	2.0	21
10	Higher-order spin and charge dynamics in a quantum dot-lead hybrid system. <i>Scientific Reports</i> , 2017, 7, 12201.	3.3	7
11	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
12	Coherent electron-spin-resonance manipulation of three individual spins in a triple quantum dot. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	38
13	A fault-tolerant addressable spin qubit in a natural silicon quantum dot. <i>Science Advances</i> , 2016, 2, e1600694.	10.3	170
14	Detection and control of charge states in a quintuple quantum dot. <i>Scientific Reports</i> , 2016, 6, 39113.	3.3	36
15	Quantum Dephasing in a Gated GaAs Triple Quantum Dot due to Nonergodic Noise. <i>Physical Review Letters</i> , 2016, 116, 046802.	7.8	46
16	Single-electron Spin Resonance in a Quadruple Quantum Dot. <i>Scientific Reports</i> , 2016, 6, 31820.	3.3	21
17	Critical Behavior of Alternately Pumped Nuclear Spins in Quantum Dots. <i>Physical Review Letters</i> , 2015, 115, 186803.	7.8	1
18	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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19	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
20	Full control of quadruple quantum dot circuit charge states in the single electron regime. Applied Physics Letters, 2014, 104, .	3.3	39
21	Spin blockade in a double quantum dot containing three electrons. Physical Review B, 2014, 89, .	3.2	8
22	Excitation spectroscopy of few-electron states in artificial diatomic molecules. Physical Review B, 2013, 87, .	3.2	9
23	Two- and Three-Electron Pauli Spin Blockade in Series-Coupled Triple Quantum Dots. Physical Review Letters, 2013, 110, 016803.	7.8	46
24	Resonance-hybrid states in a triple quantum dot. Physical Review B, 2012, 85, .	3.2	28
25	Spin blockade with spin singlet electrons. Applied Physics Letters, 2012, 101, 263108.	3.3	3
26	Series-Coupled Triple Quantum Dot Molecules. Japanese Journal of Applied Physics, 2012, 51, 02BJ06.	1.5	2
27	Series-Coupled Triple Quantum Dot Molecules. Japanese Journal of Applied Physics, 2012, 51, 02BJ06.	1.5	1
28	Characterization and Modeling of Single-particle Energy Levels and Resonant Currents in a Coherent Quantum Dot Mixer. AIP Conference Proceedings, 2011, , .	0.4	0
29	Supercurrent through InAs nanowires with highly transparent superconducting contacts. Nanotechnology, 2011, 22, 445701.	2.6	25
30	Kondo effects in a triangular triple quantum dot with lower symmetries. Physical Review B, 2011, 83, .	3.2	34
31	Aharonov-Bohm Oscillations Changed by Indirect Interdot Tunneling via Electrodes in Parallel-Coupled Vertical Double Quantum Dots. Physical Review Letters, 2011, 106, 076801.	7.8	45
32	Pauli Spin Blockade and Influence of Hyperfine Interaction in Vertical Quantum Dot Molecule with Six-Electrons. Journal of the Physical Society of Japan, 2011, 80, 023701.	1.6	7
33	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
34	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
35	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
36	Branch Current Behavior at Two Level Anti-crossings in Vertical Quantum Dot Single-particle Spectra. , 2010, , .		0

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37	Coherent level mixing in dot energy spectra measured by magneto resonant tunneling spectroscopy of vertical quantum dot molecules. Physical Review B, 2010, 81, .	3.2	4
38	Slow and Fast Electron Channels in a Coherent Quantum Dot Mixer. Japanese Journal of Applied Physics, 2010, 49, 04DJ03.	1.5	3
39	Transport properties of two laterally coupled vertical quantum dots in series with tunable interdot coupling. Applied Physics Letters, 2010, 97, 062108.	3.3	5
40	Rectifying Behavior in Laterally Coupled Self-Assembled Quantum Dots with Asymmetric Tunneling Barriers. Applied Physics Express, 2009, 2, 014501.	2.4	0
41	Stability diagrams of laterally coupled triple vertical quantum dots in triangular arrangement. Applied Physics Letters, 2009, 94, .	3.3	44
42	Modeling single-particle energy levels and resonance currents in a coherent electronic quantum dot mixer. Applied Physics Letters, 2009, 94, 222101.	3.3	3
43	Coherent Three-Level Mixing in an Electronic Quantum Dot. Physical Review Letters, 2009, 102, 026808.	7.8	24
44	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
45	Pauli-spin blockade in a vertical double quantum dot holding two to five electrons. Journal of Physics: Conference Series, 2009, 150, 022043.	0.4	7
46	LATERALLY COUPLED TRIPLE SELF-ASSEMBLED QUANTUM DOTS. , 2009, , .		0
47	ELECTRON TRANSPORT THROUGH A LATERALLY COUPLED TRIPLE QUANTUM DOT FORMING AHARONOV-BOHM INTERFEROMETER. , 2009, , .		0
48	AHARONOV-BOHM OSCILLATIONS IN PARALLEL COUPLED VERTICAL DOUBLE QUANTUM DOT. , 2009, , .		0
49	Two level mixing effects probed by resonant tunnelling through vertically coupled quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 174-177.	0.8	6
50	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
51	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
52	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
53	Two-level anti-crossings high up in the single-particle energy spectrum of a quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1807-1810.	2.7	7
54	Fabrication and characterization of a laterally coupled vertical triple quantum dot device. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1322-1324.	2.7	23

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55	Phonon induced coherence in multi-level quantum dot system. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1690-1692.	2.7	1
56	Laterally coupled self-assembled InAs quantum dots embedded in resonant tunnel diode with multigate electrodes. Applied Physics Letters, 2008, 92, .	3.3	35
57	Manipulation of exchange coupling energy in a few-electron double quantum dot. Physical Review B, 2008, 77, .	3.2	20
58	COULOMB BLOCKADE PROPERTIES OF 4-GATED QUANTUM DOT. , 2008, , .		0
59	Observation of the singlet and triplet states in a hybrid vertical-lateral double dot. AIP Conference Proceedings, 2007, , .	0.4	1
60	Enhanced Kondo Effect via Tuned Orbital Degeneracy in a Spin1/2Artificial Atom. Physical Review Letters, 2004, 93, .	7.8	108
61	Electron spin resonance and nuclear spin pumping in 2DEG quantum Hall system. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 928-932.	2.7	9
62	Molecular phases in coupled quantum dots. Physical Review B, 2004, 69, .	3.2	58
63	The Kondo Effect in aS=0/S=1 Quantum Dot. Journal of the Physical Society of Japan, 2003, 72, 73-76.	1.6	0
64	Magnetic field induced transitions in the few-electron ground states of artificial molecules. Solid State Communications, 2001, 119, 183-190.	1.9	37
65	Single dot and strongly coupled double dots at high magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 112-116.	2.7	10