

Shintaro Nomura

List of Publications by Year in descending order

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papers

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all docs

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docs citations

37
times ranked

319
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Field Optical Mapping of Exciton Wave Functions in a GaAs Quantum Dot. <i>Physical Review Letters</i> , 2003, 91, 177401.	7.8	156
2	Imaging of current density distributions with a Nb weak-link scanning nano-SQUID microscope. <i>Scientific Reports</i> , 2015, 5, 15097.	3.3	22
3	GaN ablation etching by simultaneous irradiation with F[sub 2] laser and KrF excimer laser. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 1388.	1.6	17
4	Optical Probing of Spin Polarization of Electrons in Quantum Dot Edge Channels. <i>Physical Review Letters</i> , 2004, 93, 096803.	7.8	16
5	Near-Field Optical Mapping of Quantum Hall Edge States. <i>Physical Review Letters</i> , 2011, 107, 256803.	7.8	14
6	System for the remote control and imaging of MW fields for spin manipulation in NV centers in diamond. <i>Scientific Reports</i> , 2020, 10, 4813.	3.3	14
7	Fermi-edge singularities in photoluminescence spectra of n-type modulation-doped quantum wells with a lateral periodic potential. <i>Physical Review B</i> , 2001, 63, .	3.2	12
8	Visualization of weak confinement potentials by near-field optical imaging spectroscopy of exciton and biexciton in a single quantum dot. <i>Applied Physics Letters</i> , 2008, 93, 083116.	3.3	11
9	Enhancement of electron and hole effective masses in back-gated GaAs δ -Al δ Ga δ As quantum wells. <i>Physical Review B</i> , 2007, 76, .	3.2	8
10	Circularly Polarized Near-Field Optical Mapping of Spin-Resolved Quantum Hall Chiral Edge States. <i>Nano Letters</i> , 2015, 15, 2417-2421.	9.1	8
11	Magnetization of a Mesoscopic Superconducting Sr ₂ RuO ₄ Plate on Micro-dc-SQUIDs. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 094715.	1.6	7
12	A home-made portable device based on Arduino Uno for pulsed magnetic resonance of NV centers in diamond. <i>AIP Advances</i> , 2022, 12, .	1.3	7
13	Visualization of space charge field effect on excitons in a GaAs quantum dot by near-field optical wavefunction mapping. <i>Optical Review</i> , 2009, 16, 269-273.	2.0	6
14	Near-field radio-frequency imaging by spin-locking with a nitrogen-vacancy spin sensor. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	6
15	Exchange energy enhanced g-factors obtained from Landau fan diagrams at low magnetic fields. <i>Physical Review B</i> , 2013, 87, .	3.2	5
16	Probing the breakdown of topological protection: Filling-factor-dependent evolution of robust quantum Hall incompressible phases. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
17	Development of Magnetization Measurement Devices Using Micro-dc-SQUIDs and a Sr ₂ RuO ₄ Microplate. <i>Journal of Low Temperature Physics</i> , 2016, 183, 292-299.	1.4	4
18	Frequency modulation technique for wide-field imaging of magnetic field with nitrogen-vacancy ensembles. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CK03.	1.5	4

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19	Measurement of photoluminescence spectral linewidth of a GaAs quantum well in perpendicular electric fields: Evidence of a crossover from trions to an electron-hole gas. <i>Physical Review B</i> , 2013, 87, .	3.2	3
20	Development of a Two-Dimensional Micro-SQUID Array for Investigation of Magnetization Spatial Distribution. <i>Journal of Low Temperature Physics</i> , 2016, 183, 300-306.	1.4	2
21	Real-space mapping of exciton wave function in a GaAs quantum dot by near-field optical imaging spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 238, 285-288.	1.5	0
22	DETECTING SPIN POLARIZATION OF ELECTRONS IN QUANTUM DOT EDGE CHANNELS BY PHOTOLUMINESCENCE. , 2005, , .		0
23	Magneto-optics in Be δ -doped GaAs quantum wells with a back gate. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
24	Optical detection of spin polarization of electrons in quantum dot edge channels. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
25	Negatively charged excitons in a back-gated undoped heterostructure. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
26	Charged excitons in a back-gated undoped quantum well in the integer and the fractional quantum-hall regimes. , 2005, , .		0
27	Linear scaling calculation of ann-type GaAs quantum dot. <i>Physical Review E</i> , 2007, 76, 037701.	2.1	0
28	Enhancement of electron effective mass and reduced mass in a dilute electron density regime. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
29	MAPPING OF QUANTUM-HALL EDGE CHANNELS BY A DILUTION-REFRIGERATOR BASED NEAR-FIELD SCANNING OPTICAL MICROSCOPE. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2010, 19, 563-569.	1.8	0
30	Real-space mapping of compressible and incompressible strips by a near-field scanning optical microscope. , 2011, , .		0
31	Dynamical correlation of fractionally charged excitons with a two-dimensional electron system. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	0
32	Imaging of quantum Hall edge states under quasisresonant excitation by a near-field scanning optical microscope. , 2013, , .		0
33	Circularly polarized near-field scanning optical microscope for investigations of edge states of a two-dimensional electron system. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 1341-1345.	2.3	0
34	ORDER-N ELECTRONIC STRUCTURE CALCULATION OF n-TYPE GaAs QUANTUM DOTS. , 2008, , .		0
35	DENSITY DEPENDENT ELECTRON EFFECTIVE MASS IN A BACK-GATED QUANTUM WELL. , 2008, , .		0
36	CONTROL OF THE ELECTRON DENSITY AND ELECTRIC FIELD WITH FRONT AND BACK GATES. , 2008, , .		0