

# Shintaro Nomura

## List of Publications by Year in descending order

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36  
papers

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citations

1163117

8  
h-index

839539

18  
g-index

37  
all docs

37  
docs citations

37  
times ranked

319  
citing authors

#	ARTICLE	IF	CITATIONS
1	A home-made portable device based on Arduino Uno for pulsed magnetic resonance of NV centers in diamond. AIP Advances, 2022, 12, .	1.3	7
2	Near-field radio-frequency imaging by spin-locking with a nitrogen-vacancy spin sensor. Journal of Applied Physics, 2021, 130, .	2.5	6
3	System for the remote control and imaging of MW fields for spin manipulation in NV centers in diamond. Scientific Reports, 2020, 10, 4813.	3.3	14
4	Probing the breakdown of topological protection: Filling-factor-dependent evolution of robust quantum Hall incompressible phases. Physical Review Research, 2020, 2, .	3.6	5
5	Frequency modulation technique for wide-field imaging of magnetic field with nitrogen-vacancy ensembles. Japanese Journal of Applied Physics, 2017, 56, 04CK03.	1.5	4
6	Development of Magnetization Measurement Devices Using Micro-dc-SQUIDs and a Sr <sub>2</sub> RuO <sub>4</sub> Microplate. Journal of Low Temperature Physics, 2016, 183, 292-299.	1.4	4
7	Development of a Two-Dimensional Micro-SQUID Array for Investigation of Magnetization Spatial Distribution. Journal of Low Temperature Physics, 2016, 183, 300-306.	1.4	2
8	Imaging of current density distributions with a Nb weak-link scanning nano-SQUID microscope. Scientific Reports, 2015, 5, 15097.	3.3	22
9	Circularly Polarized Near-Field Optical Mapping of Spin-Resolved Quantum Hall Chiral Edge States. Nano Letters, 2015, 15, 2417-2421.	9.1	8
10	Circularly polarized near-field scanning optical microscope for investigations of edge states of a two-dimensional electron system. Applied Physics A: Materials Science and Processing, 2015, 121, 1341-1345.	2.3	0
11	Magnetization of a Mesoscopic Superconducting Sr <sub>2</sub> RuO <sub>4</sub> Plate on Micro-dc-SQUIDs. Journal of the Physical Society of Japan, 2014, 83, 094715.	1.6	7
12	Imaging of quantum Hall edge states under quasiresonant excitation by a near-field scanning optical microscope. , 2013, , .		0
13	Exchange energy enhanced g-factors obtained from Landau fan diagrams at low magnetic fields. Physical Review B, 2013, 87, .	3.2	5
14	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. Physical Review B, 2013, 87, .	3.2	3
15	Real-space mapping of compressible and incompressible strips by a near-field scanning optical microscope. , 2011, , .		0
16	Dynamical correlation of fractionally charged excitons with a two-dimensional electron system. AIP Conference Proceedings, 2011, , .	0.4	0
17	Near-Field Optical Mapping of Quantum Hall Edge States. Physical Review Letters, 2011, 107, 256803.	7.8	14
18	MAPPING OF QUANTUM-HALL EDGE CHANNELS BY A DILUTION-REFRIGERATOR BASED NEAR-FIELD SCANNING OPTICAL MICROSCOPE. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 563-569.	1.8	0

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	ORDER-N ELECTRONIC STRUCTURE CALCULATION OF n-TYPE GaAs QUANTUM DOTS. , 2008, , .		0
22	DENSITY DEPENDENT ELECTRON EFFECTIVE MASS IN A BACK-GATED QUANTUM WELL. , 2008, , .		0
23	CONTROL OF THE ELECTRON DENSITY AND ELECTRIC FIELD WITH FRONT AND BACK GATES. , 2008, , .		0
24	Linear scaling calculation of n-type GaAs quantum dot. <i>Physical Review E</i> , 2007, 76, 037701.	2.1	0
25	Enhancement of electron and hole effective masses in back-gated GaAs $\hat{\cdot}$ Al $\hat{x}$ Ga $\hat{1}\hat{\wedge}$ xAs quantum wells. <i>Physical Review B</i> , 2007, 76, .	3.2	8
26	Enhancement of electron effective mass and reduced mass in a dilute electron density regime. AIP Conference Proceedings, 2007, , .	0.4	0
27	DETECTING SPIN POLARIZATION OF ELECTRONS IN QUANTUM DOT EDGE CHANNELS BY PHOTOLUMINESCENCE. , 2005, , .		0
28	Magneto-optics in Be $\hat{\wedge}$ -doped GaAs quantum wells with a back gate. AIP Conference Proceedings, 2005, , .	0.4	0
29	Optical detection of spin polarization of electrons in quantum dot edge channels. AIP Conference Proceedings, 2005, , .	0.4	0
30	Negatively charged excitons in a back-gated undoped heterostructure. AIP Conference Proceedings, 2005, , .	0.4	0
31	Charged excitons in a back-gated undoped quantum well in the integer and the fractional quantum-hall regimes. , 2005, , .		0
32	Optical Probing of Spin Polarization of Electrons in Quantum Dot Edge Channels. <i>Physical Review Letters</i> , 2004, 93, 096803.	7.8	16
33	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
34	Near-Field Optical Mapping of Exciton Wave Functions in a GaAs Quantum Dot. <i>Physical Review Letters</i> , 2003, 91, 177401.	7.8	156
35	GaN ablation etching by simultaneous irradiation with F $\hat{\text{sub}}\hat{2}$ laser and KrF excimer laser. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 1388.	1.6	17
36	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