Satoru Masubuchi

List of Publications by Year in Descending Order

78 papers	1,302 citations	22 h-index	34 g-index
87 ext. papers	1,606 ext. citations	5 avg, IF	4.79 L-index

#	Paper	IF	Citations
78	Switchable out-of-plane shift current in ferroelectric two-dimensional material CuInP2S6. *Applied Physics Letters*, **2022**, 120, 013103	3.4	0
77	Subband-resolved momentum-conserved resonant tunneling in monolayer graphene/h-BN/ABA-trilayer graphene small-twist-angle tunneling device. *Applied Physics Letters*, **2022**, 120, 083102	3.4	1
76	Suppression of trabecular meshwork phagocytosis by norepinephrine is associated with nocturnal increase in intraocular pressure in mice.. *Communications Biology*, **2022**, 5, 339	6.7	0
75	Defect-assisted tunneling spectroscopy of electronic band structure in twisted bilayer graphene/hexagonal boron nitride moir superlattices. *Applied Physics Letters*, **2022**, 120, 203103	3.4	
74	Resonant Tunneling Due to van der Waals Quantum-Well States of Few-Layer WSe in WSe/h-BN/p-MoS Junction. *Nano Letters*, **2021**, 21, 3929-3934	11.5	5
73	17Estradiol and cathepsins control primordial follicle growth in mouse ovaries. *Reproduction*, **2021**, 162, 277-287	3.8	0
72	Dark-state impact on the exciton recombination of WS2 monolayers as revealed by multi-timescale pump-probe spectroscopy. *Physical Review B*, **2020**, 102,	3.3	2
71	Cyclotron Resonance Study of Monolayer Graphene under Double Moir Potentials. *Nano Letters*, **2020**, 20, 4566-4572	11.5	4
70	Carbon annealed HPHT-hexagonal boron nitride: Exploring defect levels using 2D materials combined through van der Waals interface. *Carbon*, **2020**, 167, 785-791	10.4	4
69	Deep-learning-based image segmentation integrated with optical microscopy for automatically searching for two-dimensional materials. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	42
68	3D Manipulation of 2D Materials Using Microdome Polymer. *Nano Letters*, **2020**, 20, 2486-2492	11.5	19
67	Increased supply from blood vessels promotes the activation of dormant primordial follicles in mouse ovaries. *Journal of Reproduction and Development*, **2020**, 66, 105-113	2.1	4
66	Selective etching of hexagonal boron nitride by high-pressure CF4 plasma for individual one-dimensional ohmic contacts to graphene layers. *Applied Physics Letters*, **2020**, 117, 243101	3.4	4
65	Hexagonal Boron Nitride Synthesized at Atmospheric Pressure Using Metal Alloy Solvents: Evaluation as a Substrate for 2D Materials. *Nano Letters*, **2020**, 20, 735-740	11.5	7
64	Assembly of van der Waals heterostructures: exfoliation, searching, and stacking of 2D materials. *Japanese Journal of Applied Physics*, **2020**, 59, 010101	1.4	27
63	Low-temperature p-type ohmic contact to WSe2 using p+-MoS2/WSe2 van der Waals interface. *Applied Physics Letters*, **2020**, 117, 153101	3.4	5
62	cAMP response element induces Per1 in´vivo. *Biochemical and Biophysical Research Communications*, **2020**, 531, 515-521	3.4	2

61	Emergence of orbital angular moment at van Hove singularity in graphene/h-BN moiré superlattice. *Nature Communications*, **2020**, 11, 5380	17.4	6
60	Carbon-Rich Domain in Hexagonal Boron Nitride: Carrier Mobility Degradation and Anomalous Bending of the Landau Fan Diagram in Adjacent Graphene. *Nano Letters*, **2019**, 19, 7282-7286	11.5	11
59	Detection of cyclotron resonance using photo-induced thermionic emission at graphene/MoS2 van der Waals interface. *Applied Physics Letters*, **2019**, 115, 143101	3.4	1
58	Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. *APL Materials*, **2019**, 7, 101103	5.7	5
57	Effect of expression alteration in flanking genes on phenotypes of St8sia2-deficient mice. *Scientific Reports*, **2019**, 9, 13634	4.9	2
56	Classifying optical microscope images of exfoliated graphene flakes by data-driven machine learning. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	31
55	Dry release transfer of graphene and few-layer h-BN by utilizing thermoplasticity of polypropylene carbonate. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	30
54	Photo-Nernst detection of cyclotron resonance in partially irradiated graphene. *Applied Physics Letters*, **2019**, 115, 153102	3.4	3
53	Electrical Control of Cyclotron Resonance in Dual-Gated Trilayer Graphene. *Nano Letters*, **2019**, 19, 8097-8102	11.5	1
52	Mid-infrared Photodetection Using Cyclotron Resonance in Graphene/h-BN van der Waals Heterostructures. *Sensors and Materials*, **2019**, 31, 2281	1.5	2
51	Autonomous robotic searching and assembly of two-dimensional crystals to build van der Waals superlattices. *Nature Communications*, **2018**, 9, 1413	17.4	129
50	Mouse oocytes connect with granulosa cells by fusing with cell membranes and form a large complex during follicle development. *Biology of Reproduction*, **2018**, 99, 527-535	3.9	22
49	Imaging Bulk and Edge Transport near the Dirac Point in Graphene Moiré Superlattices. *Nano Letters*, **2018**, 18, 2530-2537	11.5	11
48	Ovarian Tissue Culture to Visualize Phenomena in Mouse Ovary. *Journal of Visualized Experiments*, **2018**,	1.6	3
47	Heat transfer at the van der Waals interface between graphene and NbSe2. *Physical Review B*, **2018** , 98,	3.3	2
46	Effect of a pick-and-drop process on optical properties of a CVD-grown monolayer tungsten disulfide. *Physical Review Materials*, **2018**, 2,	3.2	3
45	Photo-thermoelectric detection of cyclotron resonance in asymmetrically carrier-doped graphene two-terminal device. *Applied Physics Letters*, **2018**, 113, 103102	3.4	7
44	Observation of the dynamics of follicular development in the ovary. *Reproductive Medicine and Biology*, **2017**, 16, 21-27	4.1	10

43	N- and p-type carrier injections into WSe2with van der Waals contacts of two-dimensional materials. *Japanese Journal of Applied Physics*, **2017**, 56, 04CK09	1.4	22
42	Dirac fermion reflector by ballistic graphene sawtooth-shaped npn junctions. *Semiconductor Science and Technology*, **2017**, 32, 045010	1.8	13
41	Intersubband Landau Level Couplings Induced by In-Plane Magnetic Fields in Trilayer Graphene. *Physical Review Letters*, **2017**, 119, 186802	7.4	9
40	The concentration-dependent effect of progesterone on follicle growth in the mouse ovary. *Journal of Reproduction and Development*, **2017**, 63, 271-277	2.1	10
39	Exfoliation and van der Waals heterostructure assembly of intercalated ferromagnet Cr 1/3 TaS 2. *2D Materials*, **2017**, 4, 041007	5.9	27
38	Suppression of exciton-exciton annihilation in tungsten disulfide monolayers encapsulated by hexagonal boron nitrides. *Physical Review B*, **2017**, 95,	3.3	58
37	Supercurrent in van der Waals Josephson junction. *Nature Communications*, **2016**, 7, 10616	17.4	44
36	Spin injection into multilayer graphene from highly spin-polarized Co2FeSi Heusler alloy. *Applied Physics Express*, **2016**, 9, 063006	2.4	13
35	Influence of the density of states of graphene on the transport properties of graphene/MoS2/metal vertical field-effect transistors. *Applied Physics Letters*, **2015**, 106, 223103	3.4	19
34	Electric field modulation of Schottky barrier height in graphene/MoSe2 van der Waals heterointerface. *Applied Physics Letters*, **2015**, 107, 023109	3.4	66
33	Edge-channel interferometer at the graphene quantum Hall pn junction. *Applied Physics Letters*, **2015**, 106, 183101	3.4	22
32	Construction of van der Waals magnetic tunnel junction using ferromagnetic layered dichalcogenide. *Applied Physics Letters*, **2015**, 107, 103107	3.4	34
31	Edge-Channel Transport of Dirac Fermions in Graphene Quantum Hall Junctions. *Journal of the Physical Society of Japan*, **2015**, 84, 121007	1.5	3
30	Imaging ballistic carrier trajectories in graphene using scanning gate microscopy. *Applied Physics Letters*, **2015**, 107, 243102	3.4	23
29	Fabrication of 10-nm-scale nanoconstrictions in graphene using atomic force microscopy-based local anodic oxidation lithography. *Japanese Journal of Applied Physics*, **2015**, 54, 04DJ06	1.4	12
28	Coherent Carrier Transport in Grpahene npn Junctions. *Hyomen Kagaku*, **2015**, 36, 124-128		
27	Licarin A is a candidate compound for the treatment of immediate hypersensitivity via inhibition of rat mast cell line RBL-2H3 cells. *Journal of Pharmacy and Pharmacology*, **2015**, 67, 1723-32	4.8	9
26	Modulation of Schottky barrier height in graphene/MoS2/metal vertical heterostructure with large current ON□OFF ratio. *Japanese Journal of Applied Physics*, **2015**, 54, 04DJ04	1.4	22

25	Large current modulation in exfoliated-graphene/MoS2/metal vertical heterostructures. *Applied Physics Letters*, **2014**, 105, 083119	3.4	91
24	Mid-infrared photoresponse of graphene nanoribbon bolometer. *Japanese Journal of Applied Physics*, **2014**, 53, 035101	1.4	2
23	Graphene-based Mid-infrared Photodetectors and Spin Transport Devices. *Journal of the Vacuum Society of Japan*, **2014**, 57, 451-456		
22	Tunneling transport in a few monolayer-thick WS2/graphene heterojunction. *Applied Physics Letters* , **2014**, 105, 223109	3.4	27
21	Cross-sectional transmission electron microscopy analysis of a single self-assembled quantum dot single electron transistor fabricated by atomic force microscope local oxidation. *Japanese Journal of Applied Physics*, **2014**, 53, 045202	1.4	
20	Cubic Rashba spin-orbit interaction of a two-dimensional hole gas in a strained-Ge/SiGe quantum well. *Physical Review Letters*, **2014**, 113, 086601	7.4	75
19	Photovoltaic infrared photoresponse of the high-mobility graphene quantum Hall system due to cyclotron resonance. *Physical Review B*, **2013**, 88,	3.3	13
18	Electrical Spin Injection into Graphene through Monolayer Hexagonal Boron Nitride. *Applied Physics Express*, **2013**, 6, 073001	2.4	80
17	Cross-Sectional Transmission Electron Microscopy Analysis of Nanogap Electrode Fabricated by Atomic Force Microscope Local Oxidation. *Japanese Journal of Applied Physics*, **2013**, 52, 055201	1.4	1
16	Spin Relaxation in Weak Localization Regime in Multilayer Graphene Spin Valves. *Japanese Journal of Applied Physics*, **2013**, 52, 040205	1.4	4
15	Fabrication and Characterization of High-Mobility Graphene p□□ Junctions Encapsulated by Hexagonal Boron Nitride. *Japanese Journal of Applied Physics*, **2013**, 52, 110105	1.4	19
14	Tunnel spin injection into graphene using Al2O3 barrier grown by atomic layer deposition on functionalized graphene surface. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 849-852	2.8	29
13	Boundary scattering in ballistic graphene. *Physical Review Letters*, **2012**, 109, 036601	7.4	41
12	Atomic force microscopy based tunable local anodic oxidation of graphene. *Nano Letters*, **2011**, 11, 4542-6	12.5	64
11	Raman study on the interlayer interactions and the band structure of bilayer graphene synthesized by alcohol chemical vapor deposition. *Applied Physics Letters*, **2011**, 99, 151916	3.4	13
10	Fabrication of Nano-scale Electronic Devices Based on Single-layer Graphene. *Journal of the Vacuum Society of Japan*, **2010**, 53, 94-100		
9	Fabrication of Single-Electron Transistor Composed of a Self-Assembled Quantum Dot and Nanogap Electrode by Atomic Force Microscope Local Oxidation. *Applied Physics Express*, **2010**, 3, 035001	2.4	7
8	Observation of Half-Integer Quantum Hall Effect in Single-Layer Graphene Using Pulse Magnet. *Journal of the Physical Society of Japan*, **2008**, 77, 113707	1.5	9

7	Dynamic Nuclear Polarization in a Quantum Hall Corbino Disk. *Journal of the Physical Society of Japan*, **2008**, 77, 023710	1.5	6
6	Dynamic nuclear polarization and Knight shift measurements in a breakdown regime of integer quantum Hall effect. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1389-1391	3	3
5	Estimation of Electrically-Pumped Dynamic Nuclear Polarization in a Quantum Hall Device Using Tilted Magnetic Fields. *Japanese Journal of Applied Physics*, **2006**, 45, L522-L524	1.4	5
4	Spin dependence of edge-channel transport in silicon- based quantum Hall systems. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 4251-4254		
3	Estimation of dynamic nuclear polarization in quantum-Hall devices using tilted magnetic fields. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 4384-4387		
2	Local detection of Knight shift around quantum-Hall edge channels using resistively-detected NMR. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 4368-4371		
1	Resonant Tunneling between Quantized Subbands in van der Waals Double Quantum Well Structure Based on Few-Layer WSe2. *Nano Letters*,	11.5	1