

Satoru Masubuchi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/976084/satoru-masubuchi-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Autonomous robotic searching and assembly of two-dimensional crystals to build van der Waals superlattices. <i>Nature Communications</i> , 2018 , 9, 1413	17.4	129
77	Large current modulation in exfoliated-graphene/MoS ₂ /metal vertical heterostructures. <i>Applied Physics Letters</i> , 2014 , 105, 083119	3.4	91
76	Electrical Spin Injection into Graphene through Monolayer Hexagonal Boron Nitride. <i>Applied Physics Express</i> , 2013 , 6, 073001	2.4	80
75	Cubic Rashba spin-orbit interaction of a two-dimensional hole gas in a strained-Ge/SiGe quantum well. <i>Physical Review Letters</i> , 2014 , 113, 086601	7.4	75
74	Electric field modulation of Schottky barrier height in graphene/MoSe ₂ van der Waals heterointerface. <i>Applied Physics Letters</i> , 2015 , 107, 023109	3.4	66
73	Atomic force microscopy based tunable local anodic oxidation of graphene. <i>Nano Letters</i> , 2011 , 11, 4542-4546	6.5	64
72	Suppression of exciton-exciton annihilation in tungsten disulfide monolayers encapsulated by hexagonal boron nitrides. <i>Physical Review B</i> , 2017 , 95,	3.3	58
71	Supercurrent in van der Waals Josephson junction. <i>Nature Communications</i> , 2016 , 7, 10616	17.4	44
70	Deep-learning-based image segmentation integrated with optical microscopy for automatically searching for two-dimensional materials. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	42
69	Boundary scattering in ballistic graphene. <i>Physical Review Letters</i> , 2012 , 109, 036601	7.4	41
68	Construction of van der Waals magnetic tunnel junction using ferromagnetic layered dichalcogenide. <i>Applied Physics Letters</i> , 2015 , 107, 103107	3.4	34
67	Classifying optical microscope images of exfoliated graphene flakes by data-driven machine learning. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	31
66	Dry release transfer of graphene and few-layer h-BN by utilizing thermoplasticity of polypropylene carbonate. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	30
65	Tunnel spin injection into graphene using Al ₂ O ₃ barrier grown by atomic layer deposition on functionalized graphene surface. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 849-852	2.8	29
64	Exfoliation and van der Waals heterostructure assembly of intercalated ferromagnet Cr 1/3 TaS ₂ . <i>2D Materials</i> , 2017 , 4, 041007	5.9	27
63	Tunneling transport in a few monolayer-thick WS ₂ /graphene heterojunction. <i>Applied Physics Letters</i> , 2014 , 105, 223109	3.4	27
62	Assembly of van der Waals heterostructures: exfoliation, searching, and stacking of 2D materials. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 010101	1.4	27

61	Imaging ballistic carrier trajectories in graphene using scanning gate microscopy. <i>Applied Physics Letters</i> , 2015 , 107, 243102	3.4	23
60	N- and p-type carrier injections into WSe ₂ with van der Waals contacts of two-dimensional materials. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 04CK09	1.4	22
59	Edge-channel interferometer at the graphene quantum Hall pn junction. <i>Applied Physics Letters</i> , 2015 , 106, 183101	3.4	22
58	Mouse oocytes connect with granulosa cells by fusing with cell membranes and form a large complex during follicle development. <i>Biology of Reproduction</i> , 2018 , 99, 527-535	3.9	22
57	Modulation of Schottky barrier height in graphene/MoS ₂ /metal vertical heterostructure with large current ON/OFF ratio. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 04DJ04	1.4	22
56	Influence of the density of states of graphene on the transport properties of graphene/MoS ₂ /metal vertical field-effect transistors. <i>Applied Physics Letters</i> , 2015 , 106, 223103	3.4	19
55	3D Manipulation of 2D Materials Using Microdome Polymer. <i>Nano Letters</i> , 2020 , 20, 2486-2492	11.5	19
54	Fabrication and Characterization of High-Mobility Graphene p-n Junctions Encapsulated by Hexagonal Boron Nitride. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 110105	1.4	19
53	Dirac fermion reflector by ballistic graphene sawtooth-shaped npn junctions. <i>Semiconductor Science and Technology</i> , 2017 , 32, 045010	1.8	13
52	Photovoltaic infrared photoresponse of the high-mobility graphene quantum Hall system due to cyclotron resonance. <i>Physical Review B</i> , 2013 , 88,	3.3	13
51	Raman study on the interlayer interactions and the band structure of bilayer graphene synthesized by alcohol chemical vapor deposition. <i>Applied Physics Letters</i> , 2011 , 99, 151916	3.4	13
50	Spin injection into multilayer graphene from highly spin-polarized Co ₂ FeSi Heusler alloy. <i>Applied Physics Express</i> , 2016 , 9, 063006	2.4	13
49	Fabrication of 10-nm-scale nanoconstrictions in graphene using atomic force microscopy-based local anodic oxidation lithography. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 04DJ06	1.4	12
48	Carbon-Rich Domain in Hexagonal Boron Nitride: Carrier Mobility Degradation and Anomalous Bending of the Landau Fan Diagram in Adjacent Graphene. <i>Nano Letters</i> , 2019 , 19, 7282-7286	11.5	11
47	Imaging Bulk and Edge Transport near the Dirac Point in Graphene Moiré Superlattices. <i>Nano Letters</i> , 2018 , 18, 2530-2537	11.5	11
46	Observation of the dynamics of follicular development in the ovary. <i>Reproductive Medicine and Biology</i> , 2017 , 16, 21-27	4.1	10
45	The concentration-dependent effect of progesterone on follicle growth in the mouse ovary. <i>Journal of Reproduction and Development</i> , 2017 , 63, 271-277	2.1	10
44	Intersubband Landau Level Couplings Induced by In-Plane Magnetic Fields in Trilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 186802	7.4	9

43	Licarin A is a candidate compound for the treatment of immediate hypersensitivity via inhibition of rat mast cell line RBL-2H3 cells. <i>Journal of Pharmacy and Pharmacology</i> , 2015 , 67, 1723-32	4.8	9
42	Observation of Half-Integer Quantum Hall Effect in Single-Layer Graphene Using Pulse Magnet. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 113707	1.5	9
41	Fabrication of Single-Electron Transistor Composed of a Self-Assembled Quantum Dot and Nanogap Electrode by Atomic Force Microscope Local Oxidation. <i>Applied Physics Express</i> , 2010 , 3, 035007-4	7.4	7
40	Hexagonal Boron Nitride Synthesized at Atmospheric Pressure Using Metal Alloy Solvents: Evaluation as a Substrate for 2D Materials. <i>Nano Letters</i> , 2020 , 20, 735-740	11.5	7
39	Photo-thermoelectric detection of cyclotron resonance in asymmetrically carrier-doped graphene two-terminal device. <i>Applied Physics Letters</i> , 2018 , 113, 103102	3.4	7
38	Dynamic Nuclear Polarization in a Quantum Hall Corbino Disk. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 023710	1.5	6
37	Emergence of orbital angular moment at van Hove singularity in graphene/h-BN moiré superlattice. <i>Nature Communications</i> , 2020 , 11, 5380	17.4	6
36	Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. <i>APL Materials</i> , 2019 , 7, 101103	5.7	5
35	Estimation of Electrically-Pumped Dynamic Nuclear Polarization in a Quantum Hall Device Using Tilted Magnetic Fields. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L522-L524	1.4	5
34	Low-temperature p-type ohmic contact to WSe ₂ using p+-MoS ₂ /WSe ₂ van der Waals interface. <i>Applied Physics Letters</i> , 2020 , 117, 153101	3.4	5
33	Resonant Tunneling Due to van der Waals Quantum-Well States of Few-Layer WSe in WSe/h-BN/p-MoS Junction. <i>Nano Letters</i> , 2021 , 21, 3929-3934	11.5	5
32	Cyclotron Resonance Study of Monolayer Graphene under Double Moiré Potentials. <i>Nano Letters</i> , 2020 , 20, 4566-4572	11.5	4
31	Carbon annealed HPHT-hexagonal boron nitride: Exploring defect levels using 2D materials combined through van der Waals interface. <i>Carbon</i> , 2020 , 167, 785-791	10.4	4
30	Increased supply from blood vessels promotes the activation of dormant primordial follicles in mouse ovaries. <i>Journal of Reproduction and Development</i> , 2020 , 66, 105-113	2.1	4
29	Spin Relaxation in Weak Localization Regime in Multilayer Graphene Spin Valves. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 040205	1.4	4
28	Selective etching of hexagonal boron nitride by high-pressure CF ₄ plasma for individual one-dimensional ohmic contacts to graphene layers. <i>Applied Physics Letters</i> , 2020 , 117, 243101	3.4	4
27	Ovarian Tissue Culture to Visualize Phenomena in Mouse Ovary. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	3
26	Photo-Nernst detection of cyclotron resonance in partially irradiated graphene. <i>Applied Physics Letters</i> , 2019 , 115, 153102	3.4	3

25	Edge-Channel Transport of Dirac Fermions in Graphene Quantum Hall Junctions. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 121007	1.5	3
24	Dynamic nuclear polarization and Knight shift measurements in a breakdown regime of integer quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1389-1391	3	3
23	Effect of a pick-and-drop process on optical properties of a CVD-grown monolayer tungsten disulfide. <i>Physical Review Materials</i> , 2018 , 2,	3.2	3
22	Effect of expression alteration in flanking genes on phenotypes of St8sia2-deficient mice. <i>Scientific Reports</i> , 2019 , 9, 13634	4.9	2
21	Dark-state impact on the exciton recombination of WS ₂ monolayers as revealed by multi-timescale pump-probe spectroscopy. <i>Physical Review B</i> , 2020 , 102,	3.3	2
20	Heat transfer at the van der Waals interface between graphene and NbSe ₂ . <i>Physical Review B</i> , 2018 , 98,	3.3	2
19	Mid-infrared photoresponse of graphene nanoribbon bolometer. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 035101	1.4	2
18	Mid-infrared Photodetection Using Cyclotron Resonance in Graphene/h-BN van der Waals Heterostructures. <i>Sensors and Materials</i> , 2019 , 31, 2281	1.5	2
17	cAMP response element induces Per1 in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 531, 515-521	3.4	2
16	Detection of cyclotron resonance using photo-induced thermionic emission at graphene/MoS ₂ van der Waals interface. <i>Applied Physics Letters</i> , 2019 , 115, 143101	3.4	1
15	Electrical Control of Cyclotron Resonance in Dual-Gated Trilayer Graphene. <i>Nano Letters</i> , 2019 , 19, 8097-8102	3.1	1
14	Cross-Sectional Transmission Electron Microscopy Analysis of Nanogap Electrode Fabricated by Atomic Force Microscope Local Oxidation. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 055201	1.4	1
13	Subband-resolved momentum-conserved resonant tunneling in monolayer graphene/h-BN/ABA-trilayer graphene small-twist-angle tunneling device. <i>Applied Physics Letters</i> , 2022 , 120, 083102	3.4	1
12	Resonant Tunneling between Quantized Subbands in van der Waals Double Quantum Well Structure Based on Few-Layer WSe ₂ . <i>Nano Letters</i> ,	11.5	1
11	Switchable out-of-plane shift current in ferroelectric two-dimensional material CuInP ₂ S ₆ . <i>Applied Physics Letters</i> , 2022 , 120, 013103	3.4	0
10	17β-Estradiol and cathepsins control primordial follicle growth in mouse ovaries. <i>Reproduction</i> , 2021 , 162, 277-287	3.8	0
9	Suppression of trabecular meshwork phagocytosis by norepinephrine is associated with nocturnal increase in intraocular pressure in mice.. <i>Communications Biology</i> , 2022 , 5, 339	6.7	0
8	Graphene-based Mid-infrared Photodetectors and Spin Transport Devices. <i>Journal of the Vacuum Society of Japan</i> , 2014 , 57, 451-456		

- 7 Coherent Carrier Transport in Graphene npn Junctions. *Hyomen Kagaku*, **2015**, 36, 124-128
- 6 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
- 5 Fabrication of Nano-scale Electronic Devices Based on Single-layer Graphene. *Journal of the Vacuum Society of Japan*, **2010**, 53, 94-100
- 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 Defect-assisted tunneling spectroscopy of electronic band structure in twisted bilayer graphene/hexagonal boron nitride moiré superlattices. *Applied Physics Letters*, **2022**, 120, 203103 3.4