

Satoru Masubuchi

List of Publications by Year in descending order

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257101

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docs citations

87
times ranked

3149
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Autonomous robotic searching and assembly of two-dimensional crystals to build van der Waals superlattices. Nature Communications, 2018, 9, 1413. | 5.8 | 212 |
| 2 | Cubic Rashba Spin-Orbit Interaction of a Two-Dimensional Hole Gas in a Strained- Ge/SiGe Quantum Well. Physical Review Letters, 2014, 113, 086601. | 2.9 | 110 |
| 3 | Large current modulation in exfoliated-graphene/MoS ₂ /metal vertical heterostructures. Applied Physics Letters, 2014, 105, . | 1.5 | 106 |
| 4 | Electrical Spin Injection into Graphene through Monolayer Hexagonal Boron Nitride. Applied Physics Express, 2013, 6, 073001. | 1.1 | 92 |
| 5 | Suppression of exciton-exciton annihilation in tungsten disulfide monolayers encapsulated by hexagonal boron nitrides. Physical Review B, 2017, 95, . | 1.1 | 92 |
| 6 | Deep-learning-based image segmentation integrated with optical microscopy for automatically searching for two-dimensional materials. Npj 2D Materials and Applications, 2020, 4, . | 3.9 | 86 |
| 7 | Electric field modulation of Schottky barrier height in graphene/MoSe ₂ van der Waals heterointerface. Applied Physics Letters, 2015, 107, . | 1.5 | 78 |
| 8 | Atomic Force Microscopy Based Tunable Local Anodic Oxidation of Graphene. Nano Letters, 2011, 11, 4542-4546. | 4.5 | 68 |
| 9 | Supercurrent in van der Waals Josephson junction. Nature Communications, 2016, 7, 10616. | 5.8 | 65 |
| 10 | Classifying optical microscope images of exfoliated graphene flakes by data-driven machine learning. Npj 2D Materials and Applications, 2019, 3, . | 3.9 | 64 |
| 11 | Dry release transfer of graphene and few-layer h-BN by utilizing thermoplasticity of polypropylene carbonate. Npj 2D Materials and Applications, 2019, 3, . | 3.9 | 60 |
| 12 | Boundary Scattering in Ballistic Graphene. Physical Review Letters, 2012, 109, 036601. | 2.9 | 47 |
| 13 | Construction of van der Waals magnetic tunnel junction using ferromagnetic layered dichalcogenide. Applied Physics Letters, 2015, 107, . | 1.5 | 47 |
| 14 | Exfoliation and van der Waals heterostructure assembly of intercalated ferromagnet Cr _{1/3} TaS ₂ . 2D Materials, 2017, 4, 041007. | 2.0 | 41 |
| 15 | Assembly of van der Waals heterostructures: exfoliation, searching, and stacking of 2D materials. Japanese Journal of Applied Physics, 2020, 59, 010101. | 0.8 | 41 |
| 16 | 3D Manipulation of 2D Materials Using Microdome Polymer. Nano Letters, 2020, 20, 2486-2492. | 4.5 | 38 |
| 17 | Tunneling transport in a few monolayer-thick WS ₂ /graphene heterojunction. Applied Physics Letters, 2014, 105, . | 1.5 | 36 |
| 18 | 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. | 1.2 | 33 |

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|----|--|-----|-----------|
| 19 | 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. | 1.0 | 31 |
| 20 | 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. | 0.8 | 31 |
| 21 | Imaging ballistic carrier trajectories in graphene using scanning gate microscopy. <i>Applied Physics Letters</i> , 2015, 107, 243102. | 1.5 | 30 |
| 22 | Edge-channel interferometer at the graphene quantum Hall pn junction. <i>Applied Physics Letters</i> , 2015, 106, . | 1.5 | 29 |
| 23 | 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. | 0.8 | 27 |
| 24 | 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, . | 1.5 | 26 |
| 25 | The concentration-dependent effect of progesterone on follicle growth in the mouse ovary. <i>Journal of Reproduction and Development</i> , 2017, 63, 271-277. | 0.5 | 22 |
| 26 | Fabrication and Characterization of High-Mobility Graphene n-p Junctions Encapsulated by Hexagonal Boron Nitride. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 110105. | 0.8 | 20 |
| 27 | Observation of the dynamics of follicular development in the ovary. <i>Reproductive Medicine and Biology</i> , 2017, 16, 21-27. | 1.0 | 20 |
| 28 | 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, 1723-1732. | 1.2 | 16 |
| 29 | 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. | 4.5 | 16 |
| 30 | Resonant Tunneling Due to van der Waals Quantum-Well States of Few-Layer WSe ₂ in WSe ₂ /h-BN/p ⁺ -MoS ₂ Junction. <i>Nano Letters</i> , 2021, 21, 3929-3934. | 4.5 | 16 |
| 31 | Spin injection into multilayer graphene from highly spin-polarized Co ₂ FeSi Heusler alloy. <i>Applied Physics Express</i> , 2016, 9, 063006. | 1.1 | 15 |
| 32 | Dirac fermion reflector by ballistic graphene sawtooth-shaped npn junctions. <i>Semiconductor Science and Technology</i> , 2017, 32, 045010. | 1.0 | 15 |
| 33 | 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. | 4.5 | 15 |
| 34 | Emergence of orbital angular moment at van Hove singularity in graphene/h-BN moiré superlattice. <i>Nature Communications</i> , 2020, 11, 5380. | 5.8 | 15 |
| 35 | Photovoltaic infrared photoresponse of the high-mobility graphene quantum Hall system due to cyclotron resonance. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 14 |
| 36 | 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. | 0.5 | 14 |

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|----|--|-----|-----------|
| 37 | 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. | 1.5 | 13 |
| 38 | 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. | 0.8 | 13 |
| 39 | Intersubband Landau Level Couplings Induced by In-Plane Magnetic Fields in Trilayer Graphene. Physical Review Letters, 2017, 119, 186802. | 2.9 | 11 |
| 40 | Imaging Bulk and Edge Transport near the Dirac Point in Graphene Moiré Superlattices. Nano Letters, 2018, 18, 2530-2537. | 4.5 | 11 |
| 41 | Photo-thermoelectric detection of cyclotron resonance in asymmetrically carrier-doped graphene two-terminal device. Applied Physics Letters, 2018, 113, . | 1.5 | 10 |
| 42 | Carbon annealed HPHT-hexagonal boron nitride: Exploring defect levels using 2D materials combined through van der Waals interface. Carbon, 2020, 167, 785-791. | 5.4 | 10 |
| 43 | Observation of Half-Integer Quantum Hall Effect in Single-Layer Graphene Using Pulse Magnet. Journal of the Physical Society of Japan, 2008, 77, 113707. | 0.7 | 9 |
| 44 | Cyclotron Resonance Study of Monolayer Graphene under Double Moiré Potentials. Nano Letters, 2020, 20, 4566-4572. | 4.5 | 9 |
| 45 | Low-temperature p-type ohmic contact to WSe ₂ using p+-MoS ₂ /WSe ₂ van der Waals interface. Applied Physics Letters, 2020, 117, . | 1.5 | 8 |
| 46 | 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. | 1.1 | 7 |
| 47 | Ovarian Tissue Culture to Visualize Phenomena in Mouse Ovary. Journal of Visualized Experiments, 2018, , . | 0.2 | 7 |
| 48 | Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. APL Materials, 2019, 7, 101103. | 2.2 | 7 |
| 49 | cAMP response element induces Per1 in vivo. Biochemical and Biophysical Research Communications, 2020, 531, 515-521. | 1.0 | 7 |
| 50 | Dark-state impact on the exciton recombination of WS_2 monolayers as revealed by multi-timescale pump-probe spectroscopy. Physical Review B, 2020, 102, . | 1.0 | 7 |
| 51 | Resonant Tunneling between Quantized Subbands in van der Waals Double Quantum Well Structure Based on Few-Layer WSe ₂ . Nano Letters, 2022, 22, 4640-4645. | 4.5 | 7 |
| 52 | Dynamic Nuclear Polarization in a Quantum Hall Corbino Disk. Journal of the Physical Society of Japan, 2008, 77, 023710. | 0.7 | 6 |
| 53 | Switchable out-of-plane shift current in ferroelectric two-dimensional material CuInP ₂ S ₆ . Applied Physics Letters, 2022, 120, 013103. | 1.5 | 6 |
| 54 | 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. | 0.8 | 5 |

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|----|--|-----|-----------|
| 55 | Photo-Nernst detection of cyclotron resonance in partially irradiated graphene. Applied Physics Letters, 2019, 115, 153102. | 1.5 | 5 |
| 56 | 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. | 1.5 | 5 |
| 57 | Odd-even layer-number effect of valence-band spin splitting in WTe_2 . Physical Review Research, 2022, 4, . | | |
| 58 | 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. | 1.3 | 4 |
| 59 | Spin Relaxation in Weak Localization Regime in Multilayer Graphene Spin Valves. Japanese Journal of Applied Physics, 2013, 52, 040205. | 0.8 | 4 |
| 60 | Edge-Channel Transport of Dirac Fermions in Graphene Quantum Hall Junctions. Journal of the Physical Society of Japan, 2015, 84, 121007. | 0.7 | 4 |
| 61 | Electrical Control of Cyclotron Resonance in Dual-Gated Trilayer Graphene. Nano Letters, 2019, 19, 8097-8102. | 4.5 | 4 |
| 62 | Effect of expression alteration in flanking genes on phenotypes of <i>St8sia2</i> -deficient mice. Scientific Reports, 2019, 9, 13634. | 1.6 | 4 |
| 63 | Selective etching of hexagonal boron nitride by high-pressure CF ₄ plasma for individual one-dimensional ohmic contacts to graphene layers. Applied Physics Letters, 2020, 117, . | 1.5 | 4 |
| 64 | Effect of a pick-and-drop process on optical properties of a CVD-grown monolayer tungsten disulfide. Physical Review Materials, 2018, 2, . | 0.9 | 4 |
| 65 | Dry pick-and-flip assembly of van der Waals heterostructures for microfocus angle-resolved photoemission spectroscopy. Scientific Reports, 2022, 12, . | 1.6 | 4 |
| 66 | Heat transfer at the van der Waals interface between graphene and NbSe ₂ . Physical Review B, 2018, 98, . | 1.1 | 3 |
| 67 | Mid-infrared Photodetection Using Cyclotron Resonance in Graphene/h-BN van der Waals Heterostructures. Sensors and Materials, 2019, 31, 2281. | 0.3 | 3 |
| 68 | Tamoxifen Activates Dormant Primordial Follicles in Mouse Ovaries. Reproductive Sciences, 2022, 29, 3404-3412. | 1.1 | 3 |
| 69 | Suppression of trabecular meshwork phagocytosis by norepinephrine is associated with nocturnal increase in intraocular pressure in mice. Communications Biology, 2022, 5, 339. | 2.0 | 3 |
| 70 | Mid-infrared photoresponse of graphene nanoribbon bolometer. Japanese Journal of Applied Physics, 2014, 53, 035101. | 0.8 | 2 |
| 71 | 17β -Estradiol and cathepsins control primordial follicle growth in mouse ovaries. Reproduction, 2021, 162, 277-287. | 1.1 | 2 |
| 72 | Cross-Sectional Transmission Electron Microscopy Analysis of Nanogap Electrode Fabricated by Atomic Force Microscope Local Oxidation. Japanese Journal of Applied Physics, 2013, 52, 055201. | 0.8 | 1 |

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|----|---|-----|-----------|
| 73 | Detection of cyclotron resonance using photo-induced thermionic emission at graphene/MoS2 van der Waals interface. Applied Physics Letters, 2019, 115, 143101. | 1.5 | 1 |
| 74 | Defect-assisted tunneling spectroscopy of electronic band structure in twisted bilayer graphene/hexagonal boron nitride moiré superlattices. Applied Physics Letters, 2022, 120, 203103. | 1.5 | 1 |
| 75 | 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. | 0.8 | 0 |
| 76 | 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. | 0.8 | 0 |
| 77 | 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. | 0.8 | 0 |
| 78 | Fabrication of Nano-scale Electronic Devices Based on Single-layer Graphene. Journal of the Vacuum Society of Japan, 2010, 53, 94-100. | 0.3 | 0 |
| 79 | 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. | 0.8 | 0 |
| 80 | Graphene-based Mid-infrared Photodetectors and Spin Transport Devices. Journal of the Vacuum Society of Japan, 2014, 57, 451-456. | 0.3 | 0 |
| 81 | Coherent Carrier Transport in Graphene npn Junctions. Hyomen Kagaku, 2015, 36, 124-128. | 0.0 | 0 |
| 82 | van der Waals junctions of layered 2D materials for functional devices. , 2015, , . | | 0 |
| 83 | Graphene/transition metal dichalcogenide/metal vertical heterostructure transistor with large current ON/OFF ratio. , 2015, , . | | 0 |
| 84 | Vertical transport in graphene/transition metal dichalcogenide van der Waals heterostructure. , 2016, , . | | 0 |
| 85 | Probing many-body interactions in the cyclotron resonance of $-BN/bilayer$ graphene/ $-BN$. Physical Review B, 2021, 104, . | 1.1 | 0 |
| 86 | Evaluation of polyvinyl chloride adhesion to 2D crystal flakes. Npj 2D Materials and Applications, 2022, 6, . | 3.9 | 0 |