

Tomoki Machida

List of Publications by Year in Descending Order

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

54
papers

1,162
citations

20
h-index

33
g-index

61
ext. papers

1,431
ext. citations

5.6
avg, IF

4.64
L-index

#	Paper	IF	Citations
54	Switchable out-of-plane shift current in ferroelectric two-dimensional material CuInP2S6. <i>Applied Physics Letters</i> , 2022 , 120, 013103	3.4	0
53	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
52	Defect-assisted tunneling spectroscopy of electronic band structure in twisted bilayer graphene/hexagonal boron nitride moiré superlattices. <i>Applied Physics Letters</i> , 2022 , 120, 203103	3.4	
51	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
50	Dark-state impact on the exciton recombination of WS2 monolayers as revealed by multi-timescale pump-probe spectroscopy. <i>Physical Review B</i> , 2020 , 102,	3.3	2
49	Cyclotron Resonance Study of Monolayer Graphene under Double Moiré Potentials. <i>Nano Letters</i> , 2020 , 20, 4566-4572	11.5	4
48	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
47	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
46	3D Manipulation of 2D Materials Using Microdome Polymer. <i>Nano Letters</i> , 2020 , 20, 2486-2492	11.5	19
45	Superconducting proximity effect in a NbSe2/graphene van der Waals junction. <i>Physical Review B</i> , 2020 , 101,	3.3	11
44	Selective etching of hexagonal boron nitride by high-pressure CF4 plasma for individual one-dimensional ohmic contacts to graphene layers. <i>Applied Physics Letters</i> , 2020 , 117, 243101	3.4	4
43	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
42	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
41	Low-temperature p-type ohmic contact to WSe2 using p+-MoS2/WSe2 van der Waals interface. <i>Applied Physics Letters</i> , 2020 , 117, 153101	3.4	5
40	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
39	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
38	Detection of cyclotron resonance using photo-induced thermionic emission at graphene/MoS2 van der Waals interface. <i>Applied Physics Letters</i> , 2019 , 115, 143101	3.4	1

37	Rhenium dinitride: Carrier transport in a novel transition metal dinitride layered crystal. <i>APL Materials</i> , 2019 , 7, 101103	5.7	5
36	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
35	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
34	Photo-Nernst detection of cyclotron resonance in partially irradiated graphene. <i>Applied Physics Letters</i> , 2019 , 115, 153102	3.4	3
33	Electrical Control of Cyclotron Resonance in Dual-Gated Trilayer Graphene. <i>Nano Letters</i> , 2019 , 19, 8097-8102	1.5	1
32	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
31	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
30	Heat transfer at the van der Waals interface between graphene and NbSe ₂ . <i>Physical Review B</i> , 2018 , 98,	3.3	2
29	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
28	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
27	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
26	Optical coupling between atomically thin black phosphorus and a two dimensional photonic crystal nanocavity. <i>Applied Physics Letters</i> , 2017 , 110, 223105	3.4	11
25	Dirac fermion reflector by ballistic graphene sawtooth-shaped npn junctions. <i>Semiconductor Science and Technology</i> , 2017 , 32, 045010	1.8	13
24	Intersubband Landau Level Couplings Induced by In-Plane Magnetic Fields in Trilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 186802	7.4	9
23	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
22	Suppression of exciton-exciton annihilation in tungsten disulfide monolayers encapsulated by hexagonal boron nitrides. <i>Physical Review B</i> , 2017 , 95,	3.3	58
21	Supercurrent in van der Waals Josephson junction. <i>Nature Communications</i> , 2016 , 7, 10616	17.4	44
20	Comparison of magnetoresistances of triangular and rectangular ballistic graphene npn junctions. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 100305	1.4	

19	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
18	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
17	Edge-channel interferometer at the graphene quantum Hall pn junction. <i>Applied Physics Letters</i> , 2015 , 106, 183101	3.4	22
16	Construction of van der Waals magnetic tunnel junction using ferromagnetic layered dichalcogenide. <i>Applied Physics Letters</i> , 2015 , 107, 103107	3.4	34
15	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
14	Imaging ballistic carrier trajectories in graphene using scanning gate microscopy. <i>Applied Physics Letters</i> , 2015 , 107, 243102	3.4	23
13	Coherent Carrier Transport in Graphene npn Junctions. <i>Hyomen Kagaku</i> , 2015 , 36, 124-128		
12	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
11	Large current modulation in exfoliated-graphene/MoS ₂ /metal vertical heterostructures. <i>Applied Physics Letters</i> , 2014 , 105, 083119	3.4	91
10	Tunneling transport in a few monolayer-thick WS ₂ /graphene heterojunction. <i>Applied Physics Letters</i> , 2014 , 105, 223109	3.4	27
9	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
8	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
7	Electrical Spin Injection into Graphene through Monolayer Hexagonal Boron Nitride. <i>Applied Physics Express</i> , 2013 , 6, 073001	2.4	80
6	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
5	Boundary scattering in ballistic graphene. <i>Physical Review Letters</i> , 2012 , 109, 036601	7.4	41
4	Atomic force microscopy based tunable local anodic oxidation of graphene. <i>Nano Letters</i> , 2011 , 11, 4542-4545	6.5	64
3	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
2	Dynamic Nuclear Polarization in a Quantum Hall Corbino Disk. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 023710	1.5	6

- 1 Resonant Tunneling between Quantized Subbands in van der Waals Double Quantum Well Structure Based on Few-Layer WSe₂. *Nano Letters*, 11.5 1