

Jiwoong Park

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.

63

papers

5,944

citations

28

h-index

69

g-index

69

ext. papers

7,131

ext. citations

13.9

avg, IF

5.91

L-index

#	Paper	IF	Citations
63	Robotic four-dimensional pixel assembly of van der Waals solids.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	7
62	Resist-Free Lithography for Monolayer Transition Metal Dichalcogenides.. <i>Nano Letters</i> , 2022 ,	11.5	3
61	Local Electronic Properties of Coherent Single-Layer WS/WSe Lateral Heterostructures. <i>Nano Letters</i> , 2021 , 21, 2363-2369	11.5	4
60	SynCells: A 60 \times 60 μ m Electronic Platform with Remote Actuation for Sensing Applications in Constrained Environments. <i>ACS Nano</i> , 2021 , 15, 8803-8812	16.7	2
59	Atomically Thin, Optically Isotropic Films with 3D Nanotopography. <i>Nano Letters</i> , 2021 , 21, 7291-7297	11.5	
58	Extremely anisotropic van der Waals thermal conductors. <i>Nature</i> , 2021 , 597, 660-665	50.4	20
57	Tuning Electrical Conductance of MoS Monolayers through Substitutional Doping. <i>Nano Letters</i> , 2020 , 20, 4095-4101	11.5	59
56	Imaging Polarity in Two Dimensional Materials by Breaking Friedel's Law. <i>Ultramicroscopy</i> , 2020 , 215, 113019	3.1	8
55	Low-loss composite photonic platform based on 2D semiconductor monolayers. <i>Nature Photonics</i> , 2020 , 14, 256-262	33.9	71
54	Spatiotemporal Mapping of a Photocurrent Vortex in Monolayer MoS ₂ Using Diamond Quantum Sensors. <i>Physical Review X</i> , 2020 , 10,	9.1	7
53	Uncovering Atomic and Nano-scale Deformations in Two-dimensional Lateral Heterojunctions. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1630-1631	0.5	
52	High-Throughput Growth of Wafer-Scale Monolayer Transition Metal Dichalcogenide via Vertical Ostwald Ripening. <i>Advanced Materials</i> , 2020 , 32, e2003542	24	26
51	Twist, slip, and circular dichroism in bilayer graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	12
50	Stacking angle-tunable photoluminescence from interlayer exciton states in twisted bilayer graphene. <i>Nature Communications</i> , 2019 , 10, 1445	17.4	42
49	Capillary Origami with Atomically Thin Membranes. <i>Nano Letters</i> , 2019 , 19, 6221-6226	11.5	21
48	Diffraction Mapping with a Pixelated Detector to Quantify Crystal Orientation in 3D Structures Made from 2D Materials. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1956-1957	0.5	
47	Atomic-Scale Visualization of Electrochemical Lithiation Processes in Monolayer MoS ₂ by Cryogenic Electron Microscopy. <i>Advanced Energy Materials</i> , 2019 , 9, 1902773	21.8	18

46	Two-Dimensional Material Tunnel Barrier for Josephson Junctions and Superconducting Qubits. <i>Nano Letters</i> , 2019 , 19, 8287-8293	11.5	11
45	Reversible MoS Origami with Spatially Resolved and Reconfigurable Photosensitivity. <i>Nano Letters</i> , 2019 , 19, 7941-7949	11.5	33
44	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. <i>Science</i> , 2019 , 366, 1379-1384	33.3	111
43	The MoSeS dynamic omnigami paradigm for smart shape and composition programmable 2D materials. <i>Nature Communications</i> , 2019 , 10, 5210	17.4	10
42	Stacking, strain, and twist in 2D materials quantified by 3D electron diffraction. <i>Physical Review Materials</i> , 2019 , 3,	3.2	14
41	MoS pixel arrays for real-time photoluminescence imaging of redox molecules. <i>Science Advances</i> , 2019 , 5, eaat9476	14.3	13
40	Coherent, atomically thin transition-metal dichalcogenide superlattices with engineered strain. <i>Science</i> , 2018 , 359, 1131-1136	33.3	170
39	Electron ptychography of 2D materials to deep sub-ångström resolution. <i>Nature</i> , 2018 , 559, 343-349	50.4	269
38	Mapping the 3D Structure of Corrugated Cardboard MoS ₂ . <i>Microscopy and Microanalysis</i> , 2018 , 24, 1584-1585	0.5	
37	Real-space Demonstration of 0.4 Angstrom Resolution at 80 keV via Electron Ptychography with a High Dynamic Range Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2018 , 24, 194-195	0.5	
36	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1588-1589	0.5	
35	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. <i>Nano Letters</i> , 2018 , 18, 3746-3751	11.5	50
34	Absence of a Band Gap at the Interface of a Metal and Highly Doped Monolayer MoS. <i>Nano Letters</i> , 2017 , 17, 5962-5968	11.5	27
33	Layer-by-layer assembly of two-dimensional materials into wafer-scale heterostructures. <i>Nature</i> , 2017 , 550, 229-233	50.4	305
32	Tunable excitons in bilayer graphene. <i>Science</i> , 2017 , 358, 907-910	33.3	89
31	Picometer-Precision Strain Mapping of Two-Dimensional Heterostructures using an Electron Microscope Pixel Array Detector (EMPAD). <i>Microscopy and Microanalysis</i> , 2017 , 23, 1712-1713	0.5	
30	Breaking Friedel's Law in Polar Two Dimensional Materials. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1738-1739	0.5	1
29	Atomically Thin Graphene Windows That Enable High Contrast Electron Microscopy without a Specimen Vacuum Chamber. <i>Nano Letters</i> , 2016 , 16, 7427-7432	11.5	13

28	Electron Diffraction from a Single Atom and Optimal Signal Detection. <i>Microscopy and Microanalysis</i> , 2016 , 22, 846-847	0.5	3
27	Klein tunnelling and electron trapping in nanometre-scale graphene quantum dots. <i>Nature Physics</i> , 2016 , 12, 1069-1075	16.2	103
26	Atomistic Interrogation of B-N Co-dopant Structures and Their Electronic Effects in Graphene. <i>ACS Nano</i> , 2016 , 10, 6574-84	16.7	42
25	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. <i>ACS Nano</i> , 2016 , 10, 6392-9	16.7	144
24	Chiral atomically thin films. <i>Nature Nanotechnology</i> , 2016 , 11, 520-524	28.7	117
23	Strain Accommodation and Coherency in Laterally-Stitched WSe ₂ /WS ₂ Junctions. <i>Microscopy and Microanalysis</i> , 2016 , 22, 870-871	0.5	5
22	Imaging chiral symmetry breaking from Kekulé bond order in graphene. <i>Nature Physics</i> , 2016 , 12, 950-958	16.2	56
21	Atomic-Scale Spectroscopy of Gated Monolayer MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 3148-54	11.5	23
20	Tunable Optical Excitations in Twisted Bilayer Graphene Form Strongly Bound Excitons. <i>Nano Letters</i> , 2015 , 15, 5932-7	11.5	42
19	High-mobility three-atom-thick semiconducting films with wafer-scale homogeneity. <i>Nature</i> , 2015 , 520, 656-60	50.4	1224
18	Electron Microscopy in Air: Transparent Atomic Membranes and Imaging Modes. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1111-1112	0.5	5
17	Breaking of valley degeneracy by magnetic field in monolayer MoSe ₂ . <i>Physical Review Letters</i> , 2015 , 114, 037401	7.4	401
16	Polycrystalline graphene with single crystalline electronic structure. <i>Nano Letters</i> , 2014 , 14, 5706-11	11.5	112
15	Van Hove singularities and excitonic effects in the optical conductivity of twisted bilayer graphene. <i>Nano Letters</i> , 2014 , 14, 3353-7	11.5	99
14	Valleytronics. The valley Hall effect in MoS ₂ transistors. <i>Science</i> , 2014 , 344, 1489-92	33.3	1153
13	Atomic Imaging Across Strain Boundaries in Bilayer Graphene with ADF-STEM and DF-TEM. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1058-1059	0.5	
12	Strongly bound excitons in gapless two-dimensional structures. <i>Physical Review B</i> , 2014 , 90,	3.3	12
11	Transient absorption and photocurrent microscopy show that hot electron supercollisions describe the rate-limiting relaxation step in graphene. <i>Nano Letters</i> , 2013 , 13, 5497-502	11.5	45

10	Hyperspectral imaging of structure and composition in atomically thin heterostructures. <i>Nano Letters</i> , 2013 , 13, 3942-6	11.5	37
9	Schottky barrier inhomogeneities at the interface of few layer epitaxial graphene and silicon carbide. <i>Applied Physics Letters</i> , 2012 , 100, 183112	3.4	70
8	Graphene has ultra high piezoresistive gauge factor 2012 ,		7
7	Angle-resolved Raman imaging of interlayer rotations and interactions in twisted bilayer graphene. <i>Nano Letters</i> , 2012 , 12, 3162-7	11.5	260
6	High-throughput graphene imaging on arbitrary substrates with widefield Raman spectroscopy. <i>ACS Nano</i> , 2012 , 6, 373-80	16.7	42
5	Depolarization effect in optical absorption measurements of one- and two-dimensional nanostructures. <i>Applied Physics Letters</i> , 2012 , 101, 123102	3.4	10
4	Laser-based imaging of individual carbon nanostructures. <i>NPG Asia Materials</i> , 2011 , 3, 91-99	10.3	11
3	Photoelectrical imaging and characterization of point contacts in pentacene thin-film transistors. <i>Applied Physics Letters</i> , 2010 , 97, 023308	3.4	8
2	Ultrafast relaxation dynamics of hot optical phonons in graphene. <i>Applied Physics Letters</i> , 2010 , 96, 081901	11.7	202
1	Imaging of photocurrent generation and collection in single-layer graphene. <i>Nano Letters</i> , 2009 , 9, 1742-6	11.5	293