

Kibum Kang

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.

46
papers

6,511
citations

24
h-index

51
g-index

51
ext. papers

7,255
ext. citations

14.8
avg, IF

5.57
L-index

#	Paper	IF	Citations
46	Non-invasive digital etching of van der Waals semiconductors.. <i>Nature Communications</i> , 2022 , 13, 1844	17.4	1
45	Gas-Phase Alkali Metal-Assisted MOCVD Growth of 2D Transition Metal Dichalcogenides for Large-Scale Precise Nucleation Control.. <i>Small</i> , 2022 , e2106368	11	5
44	Strategies for chemical vapor deposition of two-dimensional organic-inorganic halide perovskites.. <i>IScience</i> , 2021 , 24, 103486	6.1	0
43	Arrayed MoS ₂ -In Ga As van der Waals Heterostructure for High-Speed and Broadband Detection from Visible to Shortwave-Infrared Light. <i>Small</i> , 2021 , 17, e2007357	11	6
42	Broadband Photodetectors: Arrayed MoS ₂ /In _{0.53} Ga _{0.47} As van der Waals Heterostructure for High-Speed and Broadband Detection from Visible to Shortwave-Infrared Light (Small 17/2021). <i>Small</i> , 2021 , 17, 2170078	11	
41	Electric-Field-Induced Reversible Phase Transitions in a Spontaneously Ion-Intercalated 2D Metal Oxide. <i>Nano Letters</i> , 2021 , 21, 3997-4005	11.5	3
40	Low-Temperature and High-Quality Growth of BiOSe Layered Semiconductors Cracking Metal-Organic Chemical Vapor Deposition. <i>ACS Nano</i> , 2021 , 15, 8715-8723	16.7	7
39	Switchable, Tunable, and Directable Exciton Funneling in Periodically Wrinkled WS ₂ . <i>Nano Letters</i> , 2021 , 21, 43-50	11.5	17
38	A 2D material-based floating gate device with linear synaptic weight update. <i>Nanoscale</i> , 2020 , 12, 24503-24509	11.2	12
37	Growth and Interlayer Engineering of 2D Layered Semiconductors for Future Electronics. <i>ACS Nano</i> , 2020 ,	16.7	13
36	Tuning Electrical Conductance of MoS ₂ Monolayers through Substitutional Doping. <i>Nano Letters</i> , 2020 , 20, 4095-4101	11.5	59
35	Measurement of Quantum Yields of Monolayer TMDs Using Dye-Dispersed PMMA Thin Films. <i>Nanomaterials</i> , 2020 , 10,	5.4	17
34	Mechanoluminescent, Air-Dielectric MoS ₂ Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. <i>Nano Letters</i> , 2020 , 20, 66-74	11.5	41
33	Capillary Origami with Atomically Thin Membranes. <i>Nano Letters</i> , 2019 , 19, 6221-6226	11.5	21
32	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
31	Reversible MoS ₂ Origami with Spatially Resolved and Reconfigurable Photosensitivity. <i>Nano Letters</i> , 2019 , 19, 7941-7949	11.5	33
30	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. <i>Science</i> , 2019 , 366, 1379-1384	33.3	111

29	MoS pixel arrays for real-time photoluminescence imaging of redox molecules. <i>Science Advances</i> , 2019 , 5, eaat9476	14.3	13
28	Coherent, atomically thin transition-metal dichalcogenide superlattices with engineered strain. <i>Science</i> , 2018 , 359, 1131-1136	33.3	170
27	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
26	Layer-by-layer assembly of two-dimensional materials into wafer-scale heterostructures. <i>Nature</i> , 2017 , 550, 229-233	50.4	305
25	Atomically Thin Ohmic Edge Contacts Between Two-Dimensional Materials. <i>ACS Nano</i> , 2016 , 10, 6392-9	16.7	144
24	Atomic-Scale Spectroscopy of Gated Monolayer MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 3148-54	11.5	23
23	Long-Lived Hole Spin/Valley Polarization Probed by Kerr Rotation in Monolayer WSe ₂ . <i>Nano Letters</i> , 2016 , 16, 5010-4	11.5	64
22	High-mobility three-atom-thick semiconducting films with wafer-scale homogeneity. <i>Nature</i> , 2015 , 520, 656-60	50.4	1224
21	Growth of straight one-dimensional Ge/ZnSe heterojunctions with atomically sharp interfaces by catalytic residue controls. <i>Nanotechnology</i> , 2014 , 25, 014010	3.4	1
20	Atomic layer-by-layer thermoelectric conversion in topological insulator bismuth/antimony tellurides. <i>Nano Letters</i> , 2014 , 14, 4030-5	11.5	39
19	Hierarchical SiO _x nanoconifers for Li-ion battery anodes with structural stability and kinetic enhancement. <i>Journal of Power Sources</i> , 2013 , 229, 229-233	8.9	50
18	Galvanic replacement reactions in metal oxide nanocrystals. <i>Science</i> , 2013 , 340, 964-8	33.3	421
17	Tunable catalytic alloying eliminates stacking faults in compound semiconductor nanowires. <i>Nano Letters</i> , 2012 , 12, 855-60	11.5	16
16	Vectorial nanowire growth by local kinetic manipulation. <i>Journal of Crystal Growth</i> , 2012 , 345, 56-60	1.6	2
15	Large electroabsorption susceptibility mediated by internal photoconductive gain in Ge nanowires. <i>Nano Letters</i> , 2012 , 12, 5913-8	11.5	6
14	Kinetics-driven high power Li-ion battery with a-Si/NiSi ₃ core-shell nanowire anodes. <i>Chemical Science</i> , 2011 , 2, 1090	9.4	55
13	Diameter-dependent internal gain in ohmic Ge nanowire photodetectors. <i>Nano Letters</i> , 2010 , 10, 2043-8	11.5	137
12	Maximum Li storage in Si nanowires for the high capacity three-dimensional Li-ion battery. <i>Applied Physics Letters</i> , 2010 , 96, 053110	3.4	137

11	Unconventional roles of metal catalysts in chemical-vapor syntheses of single-crystalline nanowires. <i>Journal of Applied Physics</i> , 2009 , 105, 122407	2.5	15
10	Near-field electrical detection of optical plasmons and single-plasmon sources. <i>Nature Physics</i> , 2009 , 5, 475-479	16.2	256
9	Fabricating genetically engineered high-power lithium-ion batteries using multiple virus genes. <i>Science</i> , 2009 , 324, 1051-5	33.3	627
8	Self-Organized Growth of Ge Nanowires from NiCu Bulk Alloys. <i>Chemistry of Materials</i> , 2008 , 20, 6577-6579	11.5	26
7	The role of NiOx overlayers on spontaneous growth of NiSix nanowires from Ni seed layers. <i>Nano Letters</i> , 2008 , 8, 431-6	11.5	50
6	Low-Temperature Deterministic Growth of Ge Nanowires Using Cu Solid Catalysts. <i>Advanced Materials</i> , 2008 , 20, 4684-4690	24	68
5	Spontaneous Chemical Vapor Growth of NiSi Nanowires and Their Metallic Properties. <i>Advanced Materials</i> , 2007 , 19, 3637-3642	24	93
4	Solid-phase epitaxy of amorphous Si using single-crystalline Si nanowire seed templates. <i>Applied Physics Letters</i> , 2007 , 91, 223107	3.4	6
3	Electrodes with high power and high capacity for rechargeable lithium batteries. <i>Science</i> , 2006 , 311, 977-803	39.3	2120
2	Room temperature spectral hole burning and elimination of photodarkening in sol-gel derived CdS quantum dots. <i>Applied Physics Letters</i> , 1994 , 64, 1487-1489	3.4	43
1	Universal Patterning for 2D Van der Waals Materials via Direct Optical Lithography. <i>Advanced Functional Materials</i> , 2105302	15.6	4