

# Joonki Suh

## 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.

55  
papers

4,778  
citations

30  
h-index

58  
g-index

58  
ext. papers

5,527  
ext. citations

11.5  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
55	Interface Engineering of Magnetic Anisotropy in van der Waals Ferromagnet-based Heterostructures. <i>ACS Nano</i> , <b>2021</b> , 15, 16395-16403	16.7	1
54	Laser-induced digital oxidation for copper-based flexible photodetectors. <i>Applied Surface Science</i> , <b>2021</b> , 540, 148333	6.7	5
53	A scalable molecule-based magnetic thin film for spin-thermoelectric energy conversion. <i>Nature Communications</i> , <b>2021</b> , 12, 1057	17.4	7
52	Heterogeneously structured phase-change materials and memory. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 050903	2.5	2
51	Atomically Thin, Optically Isotropic Films with 3D Nanotopography. <i>Nano Letters</i> , <b>2021</b> , 21, 7291-7297	11.5	
50	Extremely anisotropic van der Waals thermal conductors. <i>Nature</i> , <b>2021</b> , 597, 660-665	50.4	20
49	Tuning Electrical Conductance of MoS Monolayers through Substitutional Doping. <i>Nano Letters</i> , <b>2020</b> , 20, 4095-4101	11.5	59
48	Anomalously high electronic thermal conductivity and Lorenz ratio in Bi <sub>2</sub> Te <sub>3</sub> nanoribbons far from the bipolar condition. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 152101	3.4	3
47	Nanoscale Friction on Confined Water Layers Intercalated between MoS <sub>2</sub> Flakes and Silica. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8827-8835	3.8	19
46	Diffraction Mapping with a Pixelated Detector to Quantify Crystal Orientation in 3D Structures Made from 2D Materials. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1956-1957	0.5	
45	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. <i>Science</i> , <b>2019</b> , 366, 1379-1384	33.3	111
44	Reconfiguring crystal and electronic structures of MoS by substitutional doping. <i>Nature Communications</i> , <b>2018</b> , 9, 199	17.4	85
43	Compensated thermal conductivity of metallically conductive Ta-doped TiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 113, 022103	3.4	4
42	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800754	24	109
41	Mapping the 3D Structure of Corrugated Cardboard MoS <sub>2</sub> . <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1584-1585	0.5	
40	Anomalous Above-Gap Photoexcitations and Optical Signatures of Localized Charge Puddles in Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , <b>2017</b> , 11, 2115-2123	16.7	25
39	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. <i>Science</i> , <b>2017</b> , 355, 371-374	33.3	208

38	Observation of persistent photoconductivity in Ni-doped MoS <sub>2</sub> . <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 04CP09	1.4	3
37	Pressurizing Field-Effect Transistors of Few-Layer MoS in a Diamond Anvil Cell. <i>Nano Letters</i> , <b>2017</b> , 17, 194-199	11.5	25
36	Variable range hopping electric and thermoelectric transport in anisotropic black phosphorus. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 102101	3.4	28
35	Enhancing Modulation of Thermal Conduction in Vanadium Dioxide Thin Film by Nanostructured Nanogaps. <i>Scientific Reports</i> , <b>2017</b> , 7, 7131	4.9	11
34	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. <i>Nano Letters</i> , <b>2017</b> , 17, 4982-4988	11.5	34
33	Interlayer electron-phonon coupling in WSe <sub>2</sub> /hBN heterostructures. <i>Nature Physics</i> , <b>2017</b> , 13, 127-131	16.2	129
32	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1601741	15.6	31
31	Bimodal Control of Heat Transport at Graphene-Metal Interfaces Using Disorder in Graphene. <i>Scientific Reports</i> , <b>2016</b> , 6, 34428	4.9	5
30	Ferroelectrically Gated Atomically Thin Transition-Metal Dichalcogenides as Nonvolatile Memory. <i>Advanced Materials</i> , <b>2016</b> , 28, 2923-30	24	103
29	Dynamic Control of Optical Response in Layered Metal Chalcogenide Nanoplates. <i>Nano Letters</i> , <b>2016</b> , 16, 488-96	11.5	21
28	Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction. <i>Advanced Materials</i> , <b>2016</b> , 28, 341-6	24	75
27	Pressure-induced structural transition of Cd <sub>x</sub> Zn <sub>1-x</sub> O alloys. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152105	3.4	9
26	Laser-Assisted Doping: Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction (Adv. Mater. 2/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 392-392	24	1
25	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. <i>Nano Letters</i> , <b>2016</b> , 16, 3221-9	11.5	119
24	Stability Studies of MAPbI <sub>3</sub> : Identification of Degradation Pathways and Strategies for Observing the Native Structure of Lead Halide Perovskites. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 1510-1511	0.5	0
23	Magnetoresistance oscillations in topological insulator Bi <sub>2</sub> Te <sub>3</sub> nanoscale antidot arrays. <i>Nanotechnology</i> , <b>2015</b> , 26, 265301	3.4	2
22	Visualizing nanoscale excitonic relaxation properties of disordered edges and grain boundaries in monolayer molybdenum disulfide. <i>Nature Communications</i> , <b>2015</b> , 6, 7993	17.4	172
21	Anisotropic in-plane thermal conductivity of black phosphorus nanoribbons at temperatures higher than 100 K. <i>Nature Communications</i> , <b>2015</b> , 6, 8573	17.4	249

20	Hopping conduction in p-type MoS <sub>2</sub> near the critical regime of the metal-insulator transition. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 223107	3-4	17
19	Self-Passivation of Defects: Effects of High-Energy Particle Irradiation on the Elastic Modulus of Multilayer Graphene. <i>Advanced Materials</i> , <b>2015</b> , 27, 6841-7	24	21
18	Simultaneous Enhancement of Electrical Conductivity and Thermopower of Bi <sub>2</sub> Te <sub>3</sub> by Multifunctionality of Native Defects. <i>Advanced Materials</i> , <b>2015</b> , 27, 3681-6	24	79
17	Fermi-level stabilization in the topological insulators Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> : Origin of the surface electron gas. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	39
16	Tuning interlayer coupling in large-area heterostructures with CVD-grown MoS <sub>2</sub> and WS <sub>2</sub> monolayers. <i>Nano Letters</i> , <b>2014</b> , 14, 3185-90	11.5	562
15	Two-dimensional semiconductor alloys: Monolayer Mo <sub>1-x</sub> W <sub>x</sub> Se <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2014</b> , 104, 012101	10-1	122
14	Direct observation of nanoscale Peltier and Joule effects at metal-insulator domain walls in vanadium dioxide nanobeams. <i>Nano Letters</i> , <b>2014</b> , 14, 2394-400	11.5	27
13	Elastic properties of chemical-vapor-deposited monolayer MoS <sub>2</sub> , WS <sub>2</sub> , and their bilayer heterostructures. <i>Nano Letters</i> , <b>2014</b> , 14, 5097-103	11.5	384
12	Powerful, multifunctional torsional micromuscles activated by phase transition. <i>Advanced Materials</i> , <b>2014</b> , 26, 1746-50	24	65
11	Doping against the native propensity of MoS <sub>2</sub> : degenerate hole doping by cation substitution. <i>Nano Letters</i> , <b>2014</b> , 14, 6976-82	11.5	468
10	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , <b>2014</b> , 89,	3-3	118
9	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged, and free excitons. <i>Scientific Reports</i> , <b>2013</b> , 3, 2657	4-9	726
8	Work function engineering of single layer graphene by irradiation-induced defects. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 171604	3-4	92
7	Axially engineered metal-insulator phase transition by graded doping VO <sub>2</sub> nanowires. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4850-5	16.4	84
6	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , <b>2013</b> , 5, 4669-72	7-7	54
5	Dense electron system from gate-controlled surface metal-insulator transition. <i>Nano Letters</i> , <b>2012</b> , 12, 6272-7	11.5	48
4	Ultra-long, free-standing, single-crystalline vanadium dioxide micro/nanowires grown by simple thermal evaporation. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 103111	3-4	93
3	Unusually long free carrier lifetime and metal-insulator band offset in vanadium dioxide. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	36

- 2 Effects of point defects on thermal and thermoelectric properties of InN. *Applied Physics Letters*, **2011**, 98, 012108 34 36
- 1 The influence of sputtering power and O<sub>2</sub>/Ar flow ratio on the performance and stability of HfInO thin film transistors under illumination. *Applied Physics Letters*, **2010**, 97, 102103 34 30