

Joonki Suh

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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	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged, and free excitons. <i>Scientific Reports</i> , 2013 , 3, 2657	4.9	726
54	Tuning interlayer coupling in large-area heterostructures with CVD-grown MoS ₂ and WS ₂ monolayers. <i>Nano Letters</i> , 2014 , 14, 3185-90	11.5	562
53	Doping against the native propensity of MoS ₂ : degenerate hole doping by cation substitution. <i>Nano Letters</i> , 2014 , 14, 6976-82	11.5	468
52	Elastic properties of chemical-vapor-deposited monolayer MoS ₂ , WS ₂ , and their bilayer heterostructures. <i>Nano Letters</i> , 2014 , 14, 5097-103	11.5	384
51	Anisotropic in-plane thermal conductivity of black phosphorus nanoribbons at temperatures higher than 100 K. <i>Nature Communications</i> , 2015 , 6, 8573	17.4	249
50	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. <i>Science</i> , 2017 , 355, 371-374	34.3	208
49	Visualizing nanoscale excitonic relaxation properties of disordered edges and grain boundaries in monolayer molybdenum disulfide. <i>Nature Communications</i> , 2015 , 6, 7993	17.4	172
48	Interlayer electron-phonon coupling in WSe ₂ /hBN heterostructures. <i>Nature Physics</i> , 2017 , 13, 127-131	16.2	129
47	Two-dimensional semiconductor alloys: Monolayer Mo _{1-x} W _x Se ₂ . <i>Applied Physics Letters</i> , 2014 , 104, 012101	10.1	122
46	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. <i>Nano Letters</i> , 2016 , 16, 3221-9	11.5	119
45	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , 2014 , 89,	3.3	118
44	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. <i>Science</i> , 2019 , 366, 1379-1384	33.3	111
43	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1800754	24	109
42	Ferroelectrically Gated Atomically Thin Transition-Metal Dichalcogenides as Nonvolatile Memory. <i>Advanced Materials</i> , 2016 , 28, 2923-30	24	103
41	Ultra-long, free-standing, single-crystalline vanadium dioxide micro/nanowires grown by simple thermal evaporation. <i>Applied Physics Letters</i> , 2012 , 100, 103111	3.4	93
40	Work function engineering of single layer graphene by irradiation-induced defects. <i>Applied Physics Letters</i> , 2013 , 103, 171604	3.4	92
39	Reconfiguring crystal and electronic structures of MoS by substitutional doping. <i>Nature Communications</i> , 2018 , 9, 199	17.4	85

38	Axially engineered metal-insulator phase transition by graded doping VO ₂ nanowires. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4850-5	16.4	84
37	Simultaneous Enhancement of Electrical Conductivity and Thermopower of Bi ₂ Te ₃ by Multifunctionality of Native Defects. <i>Advanced Materials</i> , 2015 , 27, 3681-6	24	79
36	Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction. <i>Advanced Materials</i> , 2016 , 28, 341-6	24	75
35	Powerful, multifunctional torsional micromuscles activated by phase transition. <i>Advanced Materials</i> , 2014 , 26, 1746-50	24	65
34	Tuning Electrical Conductance of MoS Monolayers through Substitutional Doping. <i>Nano Letters</i> , 2020 , 20, 4095-4101	11.5	59
33	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , 2013 , 5, 4669-72	7.7	54
32	Dense electron system from gate-controlled surface metal-insulator transition. <i>Nano Letters</i> , 2012 , 12, 6272-7	11.5	48
31	Fermi-level stabilization in the topological insulators Bi ₂ Se ₃ and Bi ₂ Te ₃ : Origin of the surface electron gas. <i>Physical Review B</i> , 2014 , 89,	3.3	39
30	Effects of point defects on thermal and thermoelectric properties of InN. <i>Applied Physics Letters</i> , 2011 , 98, 012108	3.4	36
29	Unusually long free carrier lifetime and metal-insulator band offset in vanadium dioxide. <i>Physical Review B</i> , 2012 , 85,	3.3	36
28	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. <i>Nano Letters</i> , 2017 , 17, 4982-4988	11.5	34
27	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe ₂ . <i>Advanced Functional Materials</i> , 2017 , 27, 1601741	15.6	31
26	The influence of sputtering power and O ₂ /Ar flow ratio on the performance and stability of HfIn ₂ Zn thin film transistors under illumination. <i>Applied Physics Letters</i> , 2010 , 97, 102103	3.4	30
25	Variable range hopping electric and thermoelectric transport in anisotropic black phosphorus. <i>Applied Physics Letters</i> , 2017 , 111, 102101	3.4	28
24	Direct observation of nanoscale Peltier and Joule effects at metal-insulator domain walls in vanadium dioxide nanobeams. <i>Nano Letters</i> , 2014 , 14, 2394-400	11.5	27
23	Anomalous Above-Gap Photoexcitations and Optical Signatures of Localized Charge Puddles in Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , 2017 , 11, 2115-2123	16.7	25
22	Pressurizing Field-Effect Transistors of Few-Layer MoS in a Diamond Anvil Cell. <i>Nano Letters</i> , 2017 , 17, 194-199	11.5	25
21	Dynamic Control of Optical Response in Layered Metal Chalcogenide Nanoplates. <i>Nano Letters</i> , 2016 , 16, 488-96	11.5	21

20	Self-Passivation of Defects: Effects of High-Energy Particle Irradiation on the Elastic Modulus of Multilayer Graphene. <i>Advanced Materials</i> , 2015 , 27, 6841-7	24	21
19	Extremely anisotropic van der Waals thermal conductors. <i>Nature</i> , 2021 , 597, 660-665	50.4	20
18	Nanoscale Friction on Confined Water Layers Intercalated between MoS ₂ Flakes and Silica. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8827-8835	3.8	19
17	Hopping conduction in p-type MoS ₂ near the critical regime of the metal-insulator transition. <i>Applied Physics Letters</i> , 2015 , 107, 223107	3.4	17
16	Enhancing Modulation of Thermal Conduction in Vanadium Dioxide Thin Film by Nanostructured Nanogaps. <i>Scientific Reports</i> , 2017 , 7, 7131	4.9	11
15	Pressure-induced structural transition of Cd _x Zn _{1-x} O alloys. <i>Applied Physics Letters</i> , 2016 , 108, 152105	3.4	9
14	A scalable molecule-based magnetic thin film for spin-thermoelectric energy conversion. <i>Nature Communications</i> , 2021 , 12, 1057	17.4	7
13	Bimodal Control of Heat Transport at Graphene-Metal Interfaces Using Disorder in Graphene. <i>Scientific Reports</i> , 2016 , 6, 34428	4.9	5
12	Laser-induced digital oxidation for copper-based flexible photodetectors. <i>Applied Surface Science</i> , 2021 , 540, 148333	6.7	5
11	Compensated thermal conductivity of metallically conductive Ta-doped TiO ₂ . <i>Applied Physics Letters</i> , 2018 , 113, 022103	3.4	4
10	Observation of persistent photoconductivity in Ni-doped MoS ₂ . <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 04CP09	1.4	3
9	Anomalously high electronic thermal conductivity and Lorenz ratio in Bi ₂ Te ₃ nanoribbons far from the bipolar condition. <i>Applied Physics Letters</i> , 2019 , 114, 152101	3.4	3
8	Magnetoresistance oscillations in topological insulator Bi ₂ Te ₃ nanoscale antidot arrays. <i>Nanotechnology</i> , 2015 , 26, 265301	3.4	2
7	Heterogeneously structured phase-change materials and memory. <i>Journal of Applied Physics</i> , 2021 , 129, 050903	2.5	2
6	Interface Engineering of Magnetic Anisotropy in van der Waals Ferromagnet-based Heterostructures. <i>ACS Nano</i> , 2021 , 15, 16395-16403	16.7	1
5	Laser-Assisted Doping: Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction (Adv. Mater. 2/2016). <i>Advanced Materials</i> , 2016 , 28, 392-392	24	1
4	Stability Studies of MAPbI ₃ : Identification of Degradation Pathways and Strategies for Observing the Native Structure of Lead Halide Perovskites. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1510-1511	0.5	0
3	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	

- 2 Mapping the 3D Structure of Corrugated Cardboard-MOS₂. *Microscopy and Microanalysis*, **2018**, 24, 1584-1585 0.5
- 1 Atomically Thin, Optically Isotropic Films with 3D Nanotopography. *Nano Letters*, **2021**, 21, 7291-7297 11.5