

Joonki Suh

List of Publications by Year in descending order

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58
papers

6,246
citations

126708

33
h-index

155451

55
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58
all docs

58
docs citations

58
times ranked

10932
citing authors

#	ARTICLE	IF	CITATIONS
1	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged and free excitons. <i>Scientific Reports</i> , 2013, 3, 2657.	1.6	876
2	Tuning Interlayer Coupling in Large-Area Heterostructures with CVD-Grown MoS ₂ and WS ₂ Monolayers. <i>Nano Letters</i> , 2014, 14, 3185-3190.	4.5	683
3	Doping against the Native Propensity of MoS ₂ : Degenerate Hole Doping by Cation Substitution. <i>Nano Letters</i> , 2014, 14, 6976-6982.	4.5	574
4	Elastic Properties of Chemical-Vapor-Deposited Monolayer MoS ₂ , WS ₂ , and Their Bilayer Heterostructures. <i>Nano Letters</i> , 2014, 14, 5097-5103.	4.5	512
5	Anisotropic in-plane thermal conductivity of black phosphorus nanoribbons at temperatures higher than 100 K. <i>Nature Communications</i> , 2015, 6, 8573.	5.8	311
6	Anomalously low electronic thermal conductivity in metallic vanadium dioxide. <i>Science</i> , 2017, 355, 371-374.	6.0	307
7	Visualizing nanoscale excitonic relaxation properties of disordered edges and grain boundaries in monolayer molybdenum disulfide. <i>Nature Communications</i> , 2015, 6, 7993.	5.8	204
8	Wafer-scale synthesis of monolayer two-dimensional porphyrin polymers for hybrid superlattices. <i>Science</i> , 2019, 366, 1379-1384.	6.0	178
9	Interlayer electron-phonon coupling in WSe ₂ /hBN heterostructures. <i>Nature Physics</i> , 2017, 13, 127-131.	6.5	173
10	Black Arsenic: A Layered Semiconductor with Extreme In-plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1800754.	11.1	161
11	Nanotexturing To Enhance Photoluminescent Response of Atomically Thin Indium Selenide with Highly Tunable Band Gap. <i>Nano Letters</i> , 2016, 16, 3221-3229.	4.5	155
12	Two-dimensional semiconductor alloys: Monolayer Mo _{1-x} W _x Se ₂ . <i>Applied Physics Letters</i> , 2014, 104, .	1.5	154
13	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , 2014, 89, .	1.1	151
14	Ferroelectrically Gated Atomically Thin Transition-Metal Dichalcogenides as Nonvolatile Memory. <i>Advanced Materials</i> , 2016, 28, 2923-2930.	11.1	134
15	Reconfiguring crystal and electronic structures of MoS ₂ by substitutional doping. <i>Nature Communications</i> , 2018, 9, 199.	5.8	128
16	Extremely anisotropic van der Waals thermal conductors. <i>Nature</i> , 2021, 597, 660-665.	13.7	127
17	Work function engineering of single layer graphene by irradiation-induced defects. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	113
18	Ultra-long, free-standing, single-crystalline vanadium dioxide micro/nanowires grown by simple thermal evaporation. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	103

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19	Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction. <i>Advanced Materials</i> , 2016, 28, 341-346.	11.1	101
20	Tuning Electrical Conductance of MoS ₂ Monolayers through Substitutional Doping. <i>Nano Letters</i> , 2020, 20, 4095-4101.	4.5	100
21	Simultaneous Enhancement of Electrical Conductivity and Thermopower of Bi ₂ Te ₃ by Multifunctionality of Native Defects. <i>Advanced Materials</i> , 2015, 27, 3681-3686.	11.1	97
22	Axially Engineered Metal-Insulator Phase Transition by Graded Doping VO ₂ Nanowires. <i>Journal of the American Chemical Society</i> , 2013, 135, 4850-4855.	6.6	96
23	Powerful, Multifunctional Torsional Micromuscles Activated by Phase Transition. <i>Advanced Materials</i> , 2014, 26, 1746-1750.	11.1	76
24	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , 2013, 5, 4669.	2.8	63
25	Dense Electron System from Gate-Controlled Surface Metal-Insulator Transition. <i>Nano Letters</i> , 2012, 12, 6272-6277.	4.5	57
26	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. <i>Nano Letters</i> , 2017, 17, 4982-4988.	4.5	53
27	Fermi-level stabilization in the topological insulators Bi ₂ Se ₃ . <i>Physical Review B</i> , 2014, 89, .	4.5	51
28	On Optical Dipole Moment and Radiative Recombination Lifetime of Excitons in WSe ₂ . <i>Advanced Functional Materials</i> , 2017, 27, 1601741.	7.8	44
29	Effects of point defects on thermal and thermoelectric properties of InN. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	42
30	Variable range hopping electric and thermoelectric transport in anisotropic black phosphorus. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	41
31	Unusually long free carrier lifetime and metal-insulator band offset in vanadium dioxide. <i>Physical Review B</i> , 2012, 85, .	1.1	38
32	Direct Observation of Nanoscale Peltier and Joule Effects at Metal-Insulator Domain Walls in Vanadium Dioxide Nanobeams. <i>Nano Letters</i> , 2014, 14, 2394-2400.	4.5	37
33	Nanoscale Friction on Confined Water Layers Intercalated between MoS ₂ Flakes and Silica. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8827-8835.	1.5	36
34	Pressurizing Field-Effect Transistors of Few-Layer MoS ₂ in a Diamond Anvil Cell. <i>Nano Letters</i> , 2017, 17, 194-199.	4.5	31
35	The influence of sputtering power and O ₂ /Ar flow ratio on the performance and stability of HfInZnO thin film transistors under illumination. <i>Applied Physics Letters</i> , 2010, 97, 102103.	1.5	30
36	Anomalous Above-Gap Photoexcitations and Optical Signatures of Localized Charge Puddles in Monolayer Molybdenum Disulfide. <i>ACS Nano</i> , 2017, 11, 2115-2123.	7.3	29

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37	Dynamic Control of Optical Response in Layered Metal Chalcogenide Nanoplates. <i>Nano Letters</i> , 2016, 16, 488-496.	4.5	26
38	Self-Passivation of Defects: Effects of High-Energy Particle Irradiation on the Elastic Modulus of Multilayer Graphene. <i>Advanced Materials</i> , 2015, 27, 6841-6847.	11.1	24
39	High-Density, Localized Quantum Emitters in Strained 2D Semiconductors. <i>ACS Nano</i> , 2022, 16, 9651-9659.	7.3	21
40	Hopping conduction in <i>p</i> -type MoS ₂ near the critical regime of the metal-insulator transition. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	20
41	A scalable molecule-based magnetic thin film for spin-thermoelectric energy conversion. <i>Nature Communications</i> , 2021, 12, 1057.	5.8	16
42	Enhancing Modulation of Thermal Conduction in Vanadium Dioxide Thin Film by Nanostructured Nanogaps. <i>Scientific Reports</i> , 2017, 7, 7131.	1.6	11
43	Pressure-induced structural transition of Cd _x Zn _{1-x} O alloys. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	10
44	Laser-induced digital oxidation for copper-based flexible photodetectors. <i>Applied Surface Science</i> , 2021, 540, 148333.	3.1	10
45	Heterogeneously structured phase-change materials and memory. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	10
46	Compensated thermal conductivity of metallically conductive Ta-doped TiO ₂ . <i>Applied Physics Letters</i> , 2018, 113, .	1.5	8
47	Bimodal Control of Heat Transport at Graphene-Metal Interfaces Using Disorder in Graphene. <i>Scientific Reports</i> , 2016, 6, 34428.	1.6	7
48	Interface Engineering of Magnetic Anisotropy in van der Waals Ferromagnet-based Heterostructures. <i>ACS Nano</i> , 2021, 15, 16395-16403.	7.3	7
49	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, .	1.5	5
50	Observation of persistent photoconductivity in Ni-doped MoS ₂ . <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CP09.	0.8	4
51	Magnetoresistance oscillations in topological insulator Bi ₂ Te ₃ nanoscale antidot arrays. <i>Nanotechnology</i> , 2015, 26, 265301.	1.3	3
52	Laser-Assisted Doping: Site Selective Doping of Ultrathin Metal Dichalcogenides by Laser-Assisted Reaction (<i>Adv. Mater.</i> 2/2016). <i>Advanced Materials</i> , 2016, 28, 392-392.	11.1	1
53	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.	0.2	1
54	Atomically Thin, Optically Isotropic Films with 3D Nanotopography. <i>Nano Letters</i> , 2021, 21, 7291-7297.	4.5	1

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55	Channel Scaling Dependent Photoresponse of Copper-Based Flexible Photodetectors Fabricated Using Laser-Induced Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 6977-6984.	4.0	1
56	Novel device functionalities enabled by substitutional doping against native propensity in 2D semiconductors. , 2015, , .		0
57	Mapping the 3D Structure of Corrugated "Cardboard" MoS ₂ . Microscopy and Microanalysis, 2018, 24, 1584-1585.	0.2	0
58	Diffraction Mapping with a Pixelated Detector to Quantify Crystal Orientation in 3D Structures Made from 2D Materials. Microscopy and Microanalysis, 2019, 25, 1956-1957.	0.2	0