

# Hoseok Heo

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

1,135  
citations

687363

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1058476

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times ranked

2734  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deterministic Two-Dimensional Polymorphism Growth of Hexagonal $n$ -Type $\text{SnS}_2$ and Orthorhombic $p$ -Type $\text{SnS}$ Crystals. Nano Letters, 2015, 15, 3703-3708.	9.1	289
2	Thermoelectric materials by using two-dimensional materials with negative correlation between electrical and thermal conductivity. Nature Communications, 2016, 7, 12011.	12.8	173
3	Interlayer orientation-dependent light absorption and emission in monolayer semiconductor stacks. Nature Communications, 2015, 6, 7372.	12.8	154
4	Rotation-Misfit-Free Heteroepitaxial Stacking and Stitching Growth of Hexagonal Transition-Metal Dichalcogenide Monolayers by Nucleation Kinetics Controls. Advanced Materials, 2015, 27, 3803-3810.	21.0	113
5	Broken mirror symmetry in excitonic response of reconstructed domains in twisted $\text{MoSe}_2/\text{MoSe}_2$ bilayers. Nature Nanotechnology, 2020, 15, 750-754.	31.5	106
6	Bilayer Wigner crystals in a transition metal dichalcogenide heterostructure. Nature, 2021, 595, 48-52.	27.8	98
7	Kinetics-driven high power Li-ion battery with a-Si/NiSix core-shell nanowire anodes. Chemical Science, 2011, 2, 1090.	7.4	60
8	Directly Assembled 3D Molybdenum Disulfide on Silicon Wafer for Efficient Photoelectrochemical Water Reduction. Advanced Sustainable Systems, 2018, 2, 1700142.	5.3	36
9	Frank-van der Merwe Growth versus Volmer-Weber Growth in Successive Stacking of a Few-Layer $\text{Bi}_2\text{Te}_3/\text{Sb}_2\text{Te}_3$ by van der Waals Heteroepitaxy: The Critical Roles of Finite Lattice Mismatch with Seed Substrates. Advanced Electronic Materials, 2017, 3, 1600375.	5.1	25
10	Vapor Transport Synthesis of Two-Dimensional $\text{SnS}_2$ Nanocrystals Using a $\text{SnS}_2$ Precursor Obtained from the Sulfurization of $\text{SnO}_2$ . Crystal Growth and Design, 2016, 16, 3884-3889.	3.0	23
11	Atomically thin three-dimensional membranes of van der Waals semiconductors by wafer-scale growth. Science Advances, 2019, 5, eaaw3180.	10.3	22
12	Tunable Catalytic Alloying Eliminates Stacking Faults in Compound Semiconductor Nanowires. Nano Letters, 2012, 12, 855-860.	9.1	18
13	Liquid Salt Transport Growth of Single Crystals of the Layered Dichalcogenides $\text{MoS}_2$ and $\text{WS}_2$ . Crystal Growth and Design, 2019, 19, 5762-5767.	3.0	16
14	2D Materials: Rotation-Misfit-Free Heteroepitaxial Stacking and Stitching Growth of Hexagonal Transition-Metal Dichalcogenide Monolayers by Nucleation Kinetics Controls (Adv. Mater. 25/2015). Advanced Materials, 2015, 27, 3839-3839.	21.0	2
15	Kinetics-driven high power Li-ion battery with a-Si/NiSi<math>\text{Si}</math> core-shell nanowire anodes. , 2011, , .		0