

Sang Hoon Chae

List of Publications by Year in descending order

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31
papers

4,086
citations

331670

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552781

26
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33
all docs

33
docs citations

33
times ranked

7934
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. Nature Communications, 2015, 6, 8662.	12.8	403
2	Disorder in van der Waals heterostructures of 2D materials. Nature Materials, 2019, 18, 541-549.	27.5	390
3	Probing graphene grain boundaries with optical microscopy. Nature, 2012, 490, 235-239.	27.8	352
4	Seamless Stitching of Graphene Domains on Polished Copper (111) Foil. Advanced Materials, 2015, 27, 1376-1382.	21.0	314
5	Transferred wrinkled Al ₂ O ₃ for highly stretchable and transparent graphene carbon nanotube transistors. Nature Materials, 2013, 12, 403-409.	27.5	295
6	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	12.6	262
7	Low-Temperature Ohmic Contact to Monolayer MoS ₂ by van der Waals Bonded Co/h-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	9.1	233
8	Phase-Engineered Synthesis of Centimeter-Scale 1T ⁻ and 2H-Molybdenum Ditelluride Thin Films. ACS Nano, 2015, 9, 6548-6554.	14.6	225
9	High-performance n-type black phosphorus transistors with type control via thickness and contact-metal engineering. Nature Communications, 2015, 6, 7809.	12.8	223
10	Misorientation-angle-dependent electrical transport across molybdenum disulfide grain boundaries. Nature Communications, 2016, 7, 10426.	12.8	172
11	Synthesis of Centimeter-Scale Monolayer Tungsten Disulfide Film on Gold Foils. ACS Nano, 2015, 9, 5510-5519.	14.6	166
12	Small Hysteresis Nanocarbon-Based Integrated Circuits on Flexible and Transparent Plastic Substrate. Nano Letters, 2011, 11, 1344-1350.	9.1	142
13	Toward Tunable Band Gap and Tunable Dirac Point in Bilayer Graphene with Molecular Doping. Nano Letters, 2011, 11, 4759-4763.	9.1	142
14	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	31.4	140
15	Ultra-transparent, Flexible Single-walled Carbon Nanotube Non-volatile Memory Device with an Oxygen-decorated Graphene Electrode. Advanced Materials, 2011, 23, 1889-1893.	21.0	118
16	Observing Grain Boundaries in CVD-Grown Monolayer Transition Metal Dichalcogenides. ACS Nano, 2014, 8, 11401-11408.	14.6	113
17	Carbon nanotubes and graphene towards soft electronics. Nano Convergence, 2014, 1, 15.	12.1	112
18	Oxidation Effect in Octahedral Hafnium Disulfide Thin Film. ACS Nano, 2016, 10, 1309-1316.	14.6	97

#	ARTICLE	IF	CITATIONS
19	Programmable hyperbolic polaritons in van der Waals semiconductors. <i>Science</i> , 2021, 371, 617-620.	12.6	58
20	Nondestructive Characterization of Graphene Defects. <i>Advanced Functional Materials</i> , 2013, 23, 5183-5189.	14.9	44
21	Synthesis of Edge-Closed Graphene Ribbons with Enhanced Conductivity. <i>ACS Nano</i> , 2010, 4, 5480-5486.	14.6	41
22	Nonlinear nanoelectrodynamics of a Weyl metal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
23	Tailoring oxidation of Al particles morphologically controlled by carbon nanotubes. <i>Energy</i> , 2013, 55, 1143-1151.	8.8	13
24	Sorting centimetre-long single-walled carbon nanotubes. <i>Scientific Reports</i> , 2016, 6, 30836.	3.3	3
25	Giant electro-refractive modulation of monolayer WS ₂ embedded in photonic structures. , 2018, , .		3
26	Composite photonic platform based on 2D semiconductor monolayers. , 2019, , .		2
27	Phonon-Polariton-Enhanced Nonlinearity in Hexagonal Boron Nitride. , 2020, , .		1
28	Near ultraviolet light emission in hexagonal boron nitride based van der Waals heterostructures. , 2019, , .		1
29	Platform for ultra-strong modulation in hybrid silicon nitride/2D material photonic structures. , 2020, , .		1
30	Tuning the ellipticity of harmonics generated in graphene. , 2020, , .		0
31	Engineering Atomic Defects in Hexagonal Boron Nitride via Resonant Optical Excitation of Phonons. , 2020, , .		0