Sang Hoon Chae

List of Publications by Year
in descending order

31	4,086	331670 21	552781 26
papers	citations	h-index	g-index

33	33	33	7934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	12.6	58
2	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
3	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	12.6	262
4	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	31.4	140
5	Phonon-Polariton-Enhanced Nonlinearity in Hexagonal Boron Nitride. , 2020, , .		1
6	Tuning the ellipticity of harmonics generated in graphene. , 2020, , .		0
7	Platform for ultra-strong modulation in hybrid silicon nitride/2D material photonic structures. , 2020, , .		1
8	Engineering Atomic Defects in Hexagonal Boron Nitride via Resonant Optical Excitation of Phonons. , 2020, , .		0
9	Disorder in van der Waals heterostructures of 2D materials. Nature Materials, 2019, 18, 541-549.	27.5	390
10	Composite photonic platform based on 2D semiconductor monolayers. , 2019, , .		2
11	Near ultraviolet light emission in hexagonal boron nitride based van der Waals heterostructures. , 2019, , .		1
12	Giant electro-refractive modulation of monolayer WS2 embedded in photonic structures. , 2018, , .		3
13	Low-Temperature Ohmic Contact to Monolayer MoS₂ by van der Waals Bonded Co/h-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	9.1	233
14	Sorting centimetre-long single-walled carbon nanotubes. Scientific Reports, 2016, 6, 30836.	3.3	3
15	Misorientation-angle-dependent electrical transport across molybdenum disulfide grain boundaries. Nature Communications, 2016, 7, 10426.	12.8	172
16	Oxidation Effect in Octahedral Hafnium Disulfide Thin Film. ACS Nano, 2016, 10, 1309-1316.	14.6	97
17	Phase-Engineered Synthesis of Centimeter-Scale 1Tâ€²- and 2H-Molybdenum Ditelluride Thin Films. ACS Nano, 2015, 9, 6548-6554.	14.6	225
18	High-performance n-type black phosphorus transistors with type control via thickness and contact-metal engineering. Nature Communications, 2015, 6, 7809.	12.8	223

#	Article	IF	Citations
19	Synthesis of Centimeter-Scale Monolayer Tungsten Disulfide Film on Gold Foils. ACS Nano, 2015, 9, 5510-5519.	14.6	166
20	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. Nature Communications, 2015, 6, 8662.	12.8	403
21	Seamless Stitching of Graphene Domains on Polished Copper (111) Foil. Advanced Materials, 2015, 27, 1376-1382.	21.0	314
22	Observing Grain Boundaries in CVD-Grown Monolayer Transition Metal Dichalcogenides. ACS Nano, 2014, 8, 11401-11408.	14.6	113
23	Carbon nanotubes and graphene towards soft electronics. Nano Convergence, 2014, 1, 15.	12.1	112
24	Transferred wrinkled Al2O3 for highly stretchableÂand transparent grapheneâ€“carbon nanotube transistors. Nature Materials, 2013, 12, 403-409.	27.5	295
25	Nondestructive Characterization of Graphene Defects. Advanced Functional Materials, 2013, 23, 5183-5189.	14.9	44
26	Tailoring oxidation of Al particles morphologically controlled byÂcarbon nanotubes. Energy, 2013, 55, 1143-1151.	8.8	13
27	Probing graphene grain boundaries with optical microscopy. Nature, 2012, 490, 235-239.	27.8	352
28	Small Hysteresis Nanocarbon-Based Integrated Circuits on Flexible and Transparent Plastic Substrate. Nano Letters, 2011, 11, 1344-1350.	9.1	142
29	Toward Tunable Band Gap and Tunable Dirac Point in Bilayer Graphene with Molecular Doping. Nano Letters, 2011, 11, 4759-4763.	9.1	142
30	Ultraâ€Transparent, Flexible Singleâ€walled Carbon Nanotube Nonâ€volatile Memory Device with an Oxygenâ€decorated Graphene Electrode. Advanced Materials, 2011, 23, 1889-1893.	21.0	118
31	Synthesis of Edge-Closed Graphene Ribbons with Enhanced Conductivity. ACS Nano, 2010, 4, 5480-5486.	14.6	41