Joon-Seok Kim

List of Publications by Year
in descending order

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Version: 2024-02-01

19 papers	2,396 citations	623734 14 h-index	940533 16 g-index
19 all docs	19 docs citations	19 times ranked	4956 citing authors

#	Article	IF	Citations
1	A review on mechanics and mechanical properties of 2D materialsâ€”Graphene and beyond. Extreme Mechanics Letters, 2017, 13, 42-77.	4.1	920
2	Flexible Black Phosphorus Ambipolar Transistors, Circuits and AM Demodulator. Nano Letters, 2015, 15, 1883-1890.	9.1	394
3	Toward air-stable multilayer phosphorene thin-films and transistors. Scientific Reports, 2015, 5, 8989.	3.3	344
4	Long-Term Stability and Reliability of Black Phosphorus Field-Effect Transistors. ACS Nano, 2016, 10, 9543-9549.	14.6	158
5	Origin of superconductivity in the Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under pressure. Physical Review B, 2016, 94, .	3.2	91
6	Large-Area Dry Transfer of Single-Crystalline Epitaxial Bismuth Thin Films. Nano Letters, 2016, 16, 6931-6938.	9.1	87
7	Thermal Oxidation of WSe₂ Nanosheets Adhered on SiO₂/Si Substrates. Nano Letters, 2015, 15, 4979-4984.	9.1	84
8	Characterization and sonochemical synthesis of black phosphorus from red phosphorus. 2D Materials, 2016, 3, 014007.	4.4	57
9	Highly-stable black phosphorus field-effect transistors with low density of oxide traps. Npj 2D Materials and Applications, 2017, 1, .	7.9	57
10	Experimental evidence of exciton capture by mid-gap defects in CVD grown monolayer MoSe2. Npj 2D Materials and Applications, 2017, 1, .	7.9	56
11	Pressureâ€Induced Charge Transfer Doping of Monolayer Graphene/MoS₂ Heterostructure. Small, 2016, 12, 4063-4069.	10.0	45
12	Towards band structure and band offset engineering of monolayer Mo _(1â^' x) W _(x) S ₂ via Strain. 2D Materials, 2018, 5, 015008.	4.4	28
13	Laser-assisted oxidation of multi-layer tungsten diselenide nanosheets. Applied Physics Letters, 2016, 108, .	3.3	25
14	High pressure Raman study of layered Mo _{0.5} W _{0.5} S ₂ ternary compound. 2D Materials, 2016, 3, 025003.	4.4	20
15	Large area chemical vapor deposition growth of monolayer MoSe₂ and its controlled sulfurization to MoS₂. Journal of Materials Research, 2016, 31, 917-922.	2.6	14
16	Structural, vibrational, and electronic topological transitions of Bi1.5Sb0.5Te1.8Se1.2 under pressure. Journal of Applied Physics, 2018, 123, .	2.5	14
17	(Invited) silicene and phosphorene: Progress on the intriguing case of buckled atomic sheets. , 2015, , .		1
18	Reliability of black phosphorus field-effect transistors with respect to bias-temperature and hot-carrier stress. , 2017, , .		1

#	Article	IF	Citations
19	Accurate mapping of oxide traps in highly-stable black phosphorus FETs. , 2017, , .		0