

Taewan Kim

List of Publications by Year in descending order

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28
papers

384
citations

1040056

9
h-index

794594

19
g-index

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all docs

28
docs citations

28
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-scale production of highly uniform two-dimensional MoS ₂ by metal-organic chemical vapor deposition. <i>Nanotechnology</i> , 2017, 28, 18LT01.	2.6	76
2	Effects of temperature and pressure on sulfurization of molybdenum nano-sheets for MoS ₂ synthesis. <i>Thin Solid Films</i> , 2017, 641, 79-86.	1.8	53
3	Wafer-scale Epitaxial 1T [±] , 1T [±] 2H Mixed, and 2H Phases MoTe ₂ Thin Films Grown by Metal-Organic Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800439.	3.7	42
4	Heterojunction solar cell based on n-MoS ₂ /p-InP. <i>Optical Materials</i> , 2018, 86, 576-581.	3.6	32
5	Two-dimensional phase-engineered 1T [±] and 2H MoTe ₂ -based near-infrared photodetectors with ultra-fast response. <i>Journal of Alloys and Compounds</i> , 2019, 789, 960-965.	5.5	24
6	van der Waals Epitaxy of High-Mobility Polymorphic Structure of Mo ₆ Te ₆ Nanoplates/MoTe ₂ Atomic Layers with Low Schottky Barrier Height. <i>ACS Nano</i> , 2019, 13, 642-648.	14.6	23
7	Structural defects in a nanomesh of bulk MoS ₂ using an anodic aluminum oxide template for photoluminescence efficiency enhancement. <i>Scientific Reports</i> , 2018, 8, 6648.	3.3	19
8	Enhancement of Birefringence in Reduced Graphene Oxide Doped Liquid Crystal. <i>Nanomaterials</i> , 2020, 10, 842.	4.1	12
9	Electrical metal contacts to atomically thin 2H-phase MoTe ₂ grown by metal-organic chemical vapor deposition. <i>Current Applied Physics</i> , 2018, 18, 843-846.	2.4	11
10	Purcell-enhanced photoluminescence of few-layer MoS ₂ transferred on gold nanostructure arrays with plasmonic resonance at the conduction band edge. <i>Nanoscale</i> , 2021, 13, 5316-5323.	5.6	10
11	Van der Waals heterojunction interface passivation using ZnS nanolayer and enhanced photovoltaic behavior of semitransparent ultrathin 2D-MoS ₂ /3D-chalcogenide solar cells. <i>Applied Surface Science</i> , 2021, 558, 149844.	6.1	10
12	Fabrication of plasmonic arrays of nanodisks and nanotriangles by nanotip indentation lithography and their optical properties. <i>Nanoscale</i> , 2021, 13, 4475-4484.	5.6	9
13	Electrical and Optical Characteristics of Two-Dimensional MoS ₂ Film Grown by Metal-Organic Chemical Vapor Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3563-3567.	0.9	8
14	Atomic Layer MoS ₂ xTe ₂ (1-x) Ternary Alloys: Two-Dimensional van der Waals Growth, Band gap Engineering, and Electrical Transport. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40518-40524.	8.0	8
15	Segregation of NiTe ₂ and NbTe ₂ in p-Type Thermoelectric Bi _{0.5} Sb _{1.5} Te ₃ Alloys for Carrier Energy Filtering Effect by Melt Spinning. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 910.	2.5	8
16	Characteristics of a type-II n-MoS ₂ /p-Ge van der Waals heterojunction. <i>Current Applied Physics</i> , 2020, 20, 802-806.	2.4	7
17	Characteristics of electrical metal contact to monolayer WSe ₂ . <i>Thin Solid Films</i> , 2021, 719, 138508.	1.8	7
18	Cycle-life prediction model of lithium iron phosphate-based lithium-ion battery module. <i>International Journal of Energy Research</i> , 2021, 45, 16489-16496.	4.5	5

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19	Thermoelectric Properties of Te-doped In _{0.9} Si _{0.1} Se with Enhanced Effective Mass. <i>Electronic Materials Letters</i> , 2021, 17, 340-346.	2.2	4
20	Thermoelectric transport properties of S-doped In _{0.9} Si _{0.1} Se. <i>Journal of the Korean Ceramic Society</i> , 2022, 59, 64-69.	2.3	4
21	Photoresponse and Field Effect Transport Studies in InAs/InP Core-Shell Nanowires. <i>Electronic Materials Letters</i> , 2018, 14, 357-362.	2.2	3
22	Accurate Analysis of Schottky Barrier Height in Au/2H-MoTe ₂ Atomically Thin Film Contact. <i>Electronic Materials Letters</i> , 2021, 17, 307-314.	2.2	3
23	Top-gate field-effect transistor based on monolayer WS ₂ with an ion-gel gate dielectric. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 034001.	1.5	3
24	Quantification of Schottky barrier height and contact resistance of a Au electrode on multilayer WSe ₂ . <i>Journal of the Korean Physical Society</i> , 2022, 80, 307-310.	0.7	2
25	Investigation of Phase Segregation in p-Type Bi _{0.5} Sb _{1.5} Te ₃ Thermoelectric Alloys by In Situ Melt Spinning to Determine Possible Carrier Filtering Effect. <i>Materials</i> , 2021, 14, 7567.	2.9	1
26	Optical and electrical properties of monolayer ReS ₂ developed via chemical vapor deposition on SiO ₂ /Si substrate. <i>Journal of the Korean Physical Society</i> , 2021, 78, 1109.	0.7	0
27	Comparison of Ionic Liquid and Ion-Gel Top-Gate MoS ₂ Field-Effect Transistors. <i>Applied Science and Convergence Technology</i> , 2021, 30, 156-158.	0.9	0
28	Performance improvement of semi-transparent ultra-thin CIGSe solar cell by transferring exfoliated WTe ₂ multilayered-2D flakes to ITO substrate. <i>Applied Surface Science</i> , 2022, 578, 151988.	6.1	0