Taewan Kim

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5416997/publications.pdf

Version: 2024-02-01

28 papers	384 citations	1040056 9 h-index	794594 19 g-index
28 all docs	28 docs citations	28 times ranked	671 citing authors

#	Article	IF	Citations
1	Thermoelectric transport properties of S-doped In0.9Si0.1Se. Journal of the Korean Ceramic Society, 2022, 59, 64-69.	2.3	4
2	Performance improvement of semi-transparent ultra-thin CIGSe solar cell by transferring exfoliated WTe2 multilayered-2D flakes to ITO substrate. Applied Surface Science, 2022, 578, 151988.	6.1	0
3	Top-gate field-effect transistor based on monolayer WS₂ with an ion-gel gate dielectric. Japanese Journal of Applied Physics, 2022, 61, 034001.	1.5	3
4	Quantification of Schottky barrier height and contact resistance of a Au electrode on multilayer WSe2. Journal of the Korean Physical Society, 2022, 80, 307-310.	0.7	2
5	Segregation of NiTe2 and NbTe2 in p-Type Thermoelectric Bi0.5Sb1.5Te3 Alloys for Carrier Energy Filtering Effect by Melt Spinning. Applied Sciences (Switzerland), 2021, 11, 910.	2.5	8
6	Purcell-enhanced photoluminescence of few-layer MoS₂ transferred on gold nanostructure arrays with plasmonic resonance at the conduction band edge. Nanoscale, 2021, 13, 5316-5323.	5.6	10
7	Fabrication of plasmonic arrays of nanodisks and nanotriangles by nanotip indentation lithography and their optical properties. Nanoscale, 2021, 13, 4475-4484.	5.6	9
8	Characteristics of electrical metal contact to monolayer WSe2. Thin Solid Films, 2021, 719, 138508.	1.8	7
9	Thermoelectric Properties of Te-doped In0.9Si0.1Se with Enhanced Effective Mass. Electronic Materials Letters, 2021, 17, 340-346.	2.2	4
10	Optical and electrical properties of monolayer ReS2 developed via chemical vapor deposition on SiO2/Si substrate. Journal of the Korean Physical Society, 2021, 78, 1109.	0.7	0
11	Accurate Analysis of Schottky Barrier Height in Au/2Hâ€“MoTe2 Atomically Thin Film Contact. Electronic Materials Letters, 2021, 17, 307-314.	2.2	3
12	Cycleâ€life prediction model of lithium iron phosphateâ€based lithiumâ€ion battery module. International Journal of Energy Research, 2021, 45, 16489-16496.	4.5	5
13	Van der Waals heterojunction interface passivation using ZnS nanolayer and enhanced photovoltaic behavior of semitransparent ultrathin 2D-MoS2/3D-chalcogenide solar cells. Applied Surface Science, 2021, 558, 149844.	6.1	10
14	Comparison of Ionic Liquid and Ion-Gel Top-Gate MoS₂ Field-Effect Transistors. Applied Science and Convergence Technology, 2021, 30, 156-158.	0.9	0
15	Investigation of Phase Segregation in p-Type Bi0.5Sb1.5Te3 Thermoelectric Alloys by In Situ Melt Spinning to Determine Possible Carrier Filtering Effect. Materials, 2021, 14, 7567.	2.9	1
16	Electrical and Optical Characteristics of Two-Dimensional MoS₂ Film Grown by Metal-Organic Chemical Vapor Deposition. Journal of Nanoscience and Nanotechnology, 2020, 20, 3563-3567.	0.9	8
17	Atomic Layer MoS2xTe2(1â€“x) Ternary Alloys: Two-Dimensional van der Waals Growth, Band gap Engineering, and Electrical Transport. ACS Applied Materials & Interfaces, 2020, 12, 40518-40524.	8.0	8
18	Enhancement of Birefringence in Reduced Graphene Oxide Doped Liquid Crystal. Nanomaterials, 2020, 10, 842.	4.1	12

#	Article	IF	Citations
19	Characteristics of a type-II n-MoS2/p-Ge van der Waals heterojunction. Current Applied Physics, 2020, 20, 802-806.	2.4	7
20	Two-dimensional phase-engineered 1Tâ€²â€“ and 2Hâ€“MoTe2-based near-infrared photodetectors with ultra-fast response. Journal of Alloys and Compounds, 2019, 789, 960-965.	5.5	24
21	van der Waals Epitaxy of High-Mobility Polymorphic Structure of Mo₆Te₆ Nanoplates/MoTe₂ Atomic Layers with Low Schottky Barrier Height. ACS Nano, 2019, 13, 642-648.	14.6	23
22	Electrical metal contacts to atomically thin 2H-phase MoTe 2 grown by metalâ€“organic chemical vapor deposition. Current Applied Physics, 2018, 18, 843-846.	2.4	11
23	Structural defects in a nanomesh of bulk MoS2 using an anodic aluminum oxide template for photoluminescence efficiency enhancement. Scientific Reports, 2018, 8, 6648.	3.3	19
24	Photoresponse and Field Effect Transport Studies in InAsPâ€“InP Coreâ€“Shell Nanowires. Electronic Materials Letters, 2018, 14, 357-362.	2.2	3
25	Heterojunction solar cell based on n-MoS2/p-InP. Optical Materials, 2018, 86, 576-581.	3.6	32
26	Waferâ€Scale Epitaxial 1Tâ€², 1Tâ€²â€“2H Mixed, and 2H Phases MoTe₂ Thin Films Grown by Metalâ€“Organic Chemical Vapor Deposition. Advanced Materials Interfaces, 2018, 5, 1800439.	3.7	42
27	Wafer-scale production of highly uniform two-dimensional MoS₂by metal-organic chemical vapor deposition. Nanotechnology, 2017, 28, 18LT01.	2.6	76
28	Effects of temperature and pressure on sulfurization of molybdenum nano-sheets for MoS 2 synthesis. Thin Solid Films, 2017, 641, 79-86.	1.8	53