Suyeon Cho

List of Publications by Year
in descending order

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41 papers	2,919 citations	471477 17 h-index	315719 38 g-index
41 all docs	41 docs citations	41 times ranked	4408 citing authors

#	Article	IF	Citations
1	Phase patterning for ohmic homojunction contact in MoTe ₂. Science, 2015, 349, 625-628.	12.6	918
2	Bandgap opening in few-layered monoclinic MoTe2. Nature Physics, 2015, 11, 482-486.	16.7	800
3	Room Temperature Semiconductorâ€“Metal Transition of MoTe₂ Thin Films Engineered by Strain. Nano Letters, 2016, 16, 188-193.	9.1	415
4	Atomic structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt><mml:mspace width="0.16em" /><mml:mo>Â—</mml:mo><mml:mspace width="0.16em" /><mml:msqrt><mml:mn>3</mml:mn></mml:msqrt></mml:mrow></mml:math>phase of silicene on Ag(111). Physical Review B, 2014, 90, .	3.2	107
5	Active hydrogen evolution through lattice distortion in metallic MoTe ₂. 2D Materials, 2017, 4, 025061.	4.4	103
6	Long-Range Lattice Engineering of MoTe₂ by a 2D Electride. Nano Letters, 2017, 17, 3363-3368.	9.1	72
7	Te vacancy-driven superconductivity in orthorhombic molybdenum ditelluride. 2D Materials, 2017, 4, 021030.	4.4	42
8	Vertical Heterophase for Electrical, Electrochemical, and Mechanical Manipulations of Layered MoTe₂. Advanced Functional Materials, 2019, 29, 1904504.	14.9	40
9	Effect of oxygen partial pressure on the Fermi level of ZnO1â^'x films fabricated by pulsed laser deposition. Applied Physics Letters, 2010, 96, 201907.	3.3	36
10	Origin of extremely large magnetoresistance in the candidate type-II Weyl semimetal MoTe2â^'x. Scientific Reports, 2018, 8, 13937.	3.3	36
11	Role of anionic vacancy for active hydrogen evolution in WTe2. Applied Surface Science, 2020, 515, 145972.	6.1	34
12	Post-patterning of an electronic homojunction in atomically thin monoclinic MoTe ₂. 2D Materials, 2017, 4, 024004.	4.4	32
13	Polymorphic Spin, Charge, and Lattice Waves in Vanadium Ditelluride. Advanced Materials, 2020, 32, e1906578.	21.0	29
14	Hybrid catalyst with monoclinic MoTe2 and platinum for efficient hydrogen evolution. APL Materials, 2019, 7, .	5.1	24
15	Heterophase Boundary for Active Hydrogen Evolution in MoTe₂. Advanced Functional Materials, 2022, 32, 2105675.	14.9	21
16	Basal-Plane Catalytic Activity of Layered Metallic Transition Metal Ditellurides for the Hydrogen Evolution Reaction. Applied Sciences (Switzerland), 2020, 10, 3087.	2.5	19
17	Active hydrogen evolution on the plasma-treated edges of WTe2. APL Materials, 2021, 9, .	5.1	19
18	Chain Vacancies in 2D Crystals. Small, 2017, 13, 1601930.	10.0	18

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19	In Operando Stacking of Reduced Graphene Oxide for Active Hydrogen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 43460-43465.	8.0	17
20	Symmetry Dictated Grain Boundary State in a Two-Dimensional Topological Insulator. Nano Letters, 2020, 20, 5837-5843.	9.1	16
21	Phase-controllable laser thinning in MoTe2. Applied Surface Science, 2021, 563, 150282.	6.1	16
22	Metal plasma immersion ion implantation and deposition (MePIIID) on screw-shaped titanium implant: The effects of ion source, ion dose and acceleration voltage on surface chemistry and morphology. Medical Engineering and Physics, 2011, 33, 730-738.	1.7	12
23	Charge and magnetic states of rutile TiO2doped with Cr ions. Journal of Physics Condensed Matter, 2014, 26, 146003.	1.8	10
24	Mitrofanovite, Layered Platinum Telluride, for Active Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 2437-2446.	8.0	10
25	Nanoporous Silver Telluride for Active Hydrogen Evolution. ACS Nano, 2021, 15, 6540-6550.	14.6	10
26	Proximity Engineering of the van der Waals Interaction in Multilayered Graphene. ACS Applied Materials & Interfaces, 2019, 11, 42528-42533.	8.0	9
27	Hydrogen bubble-assisted growth of Pt3Te4 for electrochemical catalysts. Current Applied Physics, 2021, , .	2.4	6
28	Quantum Sensing of Thermoelectric Power in Lowâ€Dimensional Materials. Advanced Materials, 2023, 35, e2106871.	21.0	6
29	Superconductivity in Te-deficient polymorphic MoTe _{2â^' x} and its derivatives: rich structural and electronic phase transitions. 2D Materials, 2018, 5, 031014.	4.4	5
30	Lifshitz Transition and Nonâ€Fermi Liquid Behavior in Highly Doped Semimetals. Advanced Materials, 2021, 33, 2005742.	21.0	5
31	Thermomechanical Manipulation of Electric Transport in MoTe 2. Advanced Electronic Materials, 2021, 7, 2000823.	5.1	5
32	Structural, Optical, and Magnetic Properties of Erbium-Substituted Yttrium Iron Garnets. ACS Omega, 2022, 7, 25078-25086.	3.5	5
33	Effect of Cr concentration on resistance switching in Cr-doped SrZrO3 films and surface accumulation of Cr ions. Journal of Applied Physics, 2010, 108, 103716.	2.5	4
34	Bandgap modulation in the two-dimensional core-shell-structured monolayers of WS2. IScience, 2022, 25, 103563.	4.1	4
35	Reshaped Weyl fermionic dispersions driven by Coulomb interactions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>m</mml:mi> Physical Review B, 2022, 105, .	3.2	4
36	Atomic and Electronic Manipulation of Robust Ferroelectric Polymorphs. Advanced Materials, 2022, 34, .	21.0	4

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37	Nondestructive investigation of interface states in highâ€k oxide films on Ge substrate using Xâ€ray absorption spectroscopy. Physica Status Solidi - Rapid Research Letters, 2012, 6, 181-183.	2.4	3
38	Local phase transition at crack edges of Mo1-xWxTe2 polymorphs. Applied Surface Science, 2022, , 153503.	6.1	3
39	Ferroelectric Transition in Sr- and W-Doped BaTiO3 Solid Solutions. Applied Sciences (Switzerland), 2021, 11, 6760.	2.5	0
40	Applications of metal-semiconductor phase transition in 2D layered transition metal dichalcogenides. Vacuum Magazine, 2016, 3, 4-8.	0.0	0
41	Efficient hydrogen evolution reaction at the phase transition boundary of polymorphic Mo_{1â”x}W_xTe₂. APL Materials, 2022, 10, 061107.	5.1	0