

Hui Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,738
citations

516710

16
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

3530
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Atomically thin resonant tunnel diodes built from synthetic van der Waals heterostructures. Nature Communications, 2015, 6, 7311. | 12.8 | 382 |
| 2 | Impurities and Electronic Property Variations of Natural MoS ₂ Crystal Surfaces. ACS Nano, 2015, 9, 9124-9133. | 14.6 | 240 |
| 3 | HfSe ₂ Thin Films: 2D Transition Metal Dichalcogenides Grown by Molecular Beam Epitaxy. ACS Nano, 2015, 9, 474-480. | 14.6 | 195 |
| 4 | Remote Plasma Oxidation and Atomic Layer Etching of MoS ₂ . ACS Applied Materials & Interfaces, 2016, 8, 19119-19126. | 8.0 | 145 |
| 5 | Atomically Thin Heterostructures Based on Single-Layer Tungsten Diselenide and Graphene. Nano Letters, 2014, 14, 6936-6941. | 9.1 | 132 |
| 6 | Defects and Surface Structural Stability of MoTe ₂ Under Vacuum Annealing. ACS Nano, 2017, 11, 11005-11014. | 14.6 | 117 |
| 7 | Nucleation and growth of WSe ₂ : enabling large grain transition metal dichalcogenides. 2D Materials, 2017, 4, 045019. | 4.4 | 96 |
| 8 | Al ₂ O ₃ on Black Phosphorus by Atomic Layer Deposition: An <i>in Situ</i> Interface Study. ACS Applied Materials & Interfaces, 2015, 7, 13038-13043. | 8.0 | 81 |
| 9 | New Mo ₆ Te ₆ Sub-Nanometer Diameter Nanowire Phase from 2H-MoTe ₂ . Advanced Materials, 2017, 29, 1606264. | 21.0 | 64 |
| 10 | WTe ₂ thin films grown by beam-interrupted molecular beam epitaxy. 2D Materials, 2017, 4, 025044. | 4.4 | 48 |
| 11 | Chiral expression from molecular to macroscopic level via pH modulation in terbium coordination polymers. Nature Communications, 2017, 8, 2131. | 12.8 | 35 |
| 12 | High-resolution imaging of catalytic activity of a single graphene sheet using electrochemiluminescence microscopy. Chemical Science, 2021, 12, 4794-4799. | 7.4 | 35 |
| 13 | Supramolecular Isomerism of One-Dimensional Copper(II) Phosphonate and Its Influence on the Magnetic Properties. ChemPlusChem, 2012, 77, 1087-1095. | 2.8 | 31 |
| 14 | Sub-10 nm Tunable Hybrid Dielectric Engineering on MoS ₂ for Two-Dimensional Material-Based Devices. ACS Nano, 2017, 11, 10243-10252. | 14.6 | 28 |
| 15 | A comparative study of atomic layer deposition of Al ₂ O ₃ and HfO ₂ on AlGaIn/GaN. Journal of Materials Science: Materials in Electronics, 2015, 26, 4638-4643. | 2.2 | 25 |
| 16 | Atomic Layer Deposition of Layered Boron Nitride for Large-Area 2D Electronics. ACS Applied Materials & Interfaces, 2020, 12, 36688-36694. | 8.0 | 22 |
| 17 | Surface and interfacial study of half cycle atomic layer deposited Al ₂ O ₃ on black phosphorus. Microelectronic Engineering, 2015, 147, 1-4. | 2.4 | 15 |
| 18 | Perturbation Electrochemiluminescence Imaging to Observe the Fluctuation of Charge-Transfer Resistance in Individual Graphene Microsheets with Redox-Induced Defects. ACS Applied Materials & Interfaces, 2019, 11, 46666-46670. | 8.0 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Understanding the Synergistic Oxidation in Dichalcogenides through Electrochemiluminescence Blinking at Millisecond Resolution. <i>Advanced Materials</i> , 2021, 33, e2105039. | 21.0 | 12 |
| 20 | Racemic metal phosphonates based on 2-phenyl-2-(phosphonomethylamino)acetate. <i>Dalton Transactions</i> , 2013, 42, 14075. | 3.3 | 11 |
| 21 | Racemic metal phosphonates based on 1-phosphonomethyl-2-benzimidazol-piperidine. <i>CrystEngComm</i> , 2013, 15, 10316. | 2.6 | 10 |
| 22 | In Situ Heating Study of 2H-MoTe ₂ to Mo ₆ Te ₆ Nanowire Phase Transition. <i>Microscopy and Microanalysis</i> , 2017, 23, 1764-1765. | 0.4 | 2 |