

Linfeng Sun

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,706
citations

136740

32
h-index

161609

54
g-index

54
all docs

54
docs citations

54
times ranked

6200
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-ions electrochemical deionization: a desalination generator. <i>Energy and Environmental Science</i> , 2017, 10, 2081-2089.	15.6	259
2	Controlled Synthesis of High-Quality Monolayered In_2Se_3 via Physical Vapor Deposition. <i>Nano Letters</i> , 2015, 15, 6400-6405.	4.5	239
3	Ultrafast Carrier Thermalization and Cooling Dynamics in Few-Layer MoS_2 . <i>ACS Nano</i> , 2014, 8, 10931-10940.	7.3	236
4	In-sensor reservoir computing for language learning via two-dimensional memristors. <i>Science Advances</i> , 2021, 7, .	4.7	175
5	Asymmetric Schottky Contacts in Bilayer MoS_2 Field Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1800657.	7.8	162
6	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. <i>Advanced Functional Materials</i> , 2016, 26, 137-145.	7.8	150
7	Self-selective van der Waals heterostructures for large scale memory array. <i>Nature Communications</i> , 2019, 10, 3161.	5.8	139
8	Spin-Orbit Splitting in Single-Layer MoS_2 Revealed by Triply Resonant Raman Scattering. <i>Physical Review Letters</i> , 2013, 111, 126801.	6.9	137
9	Synaptic Computation Enabled by Joule Heating of Single-Layered Semiconductors for Sound Localization. <i>Nano Letters</i> , 2018, 18, 3229-3234.	4.5	134
10	Plasma Modified MoS_2 Nanoflakes for Surface Enhanced Raman Scattering. <i>Small</i> , 2014, 10, 1090-1095.	5.2	129
11	Metal-Semiconductor Phase Transition in $\text{WSe}_2(1-x)\text{Te}_2x$ Monolayer. <i>Advanced Materials</i> , 2017, 29, 1603991.	11.1	123
12	Ar plasma modification of 2D MXene $\text{Ti}_3\text{C}_2\text{T}_x$ nanosheets for efficient capacitive desalination. <i>FlatChem</i> , 2018, 8, 17-24.	2.8	106
13	Monolayers of $\text{W}_x\text{Mo}_{1-x}\text{S}_2$ alloy heterostructure with in-plane composition variations. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	99
14	Strong interfacial coupling of $\text{MoS}_2/\text{g-C}_3\text{N}_4$ van der Waals solids for highly active water reduction. <i>Nano Energy</i> , 2016, 27, 44-50.	8.2	96
15	Negative Photoconductance Effect: An Extension Function of the TiO_x -Based Memristor. <i>Advanced Science</i> , 2021, 8, 2003765.	5.6	94
16	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	94
17	Study on Phase Formation Mechanism of Non- and Near-Stoichiometric $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ Film Prepared by Selenization of Cu-Sn-Zn-S Precursors. <i>Chemistry of Materials</i> , 2014, 26, 2005-2014.	3.2	83
18	Surface modification of $\text{Na}_2\text{Ti}_3\text{O}_7$ nanofibre arrays using N-doped graphene quantum dots as advanced anodes for sodium-ion batteries with ultra-stable and high-rate capability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12751-12762.	5.2	83

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19	Memristive Crossbar Arrays for Storage and Computing Applications. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100017.	3.3	80
20	ABO ₃ multiferroic perovskite materials for memristive memory and neuromorphic computing. <i>Nanoscale Horizons</i> , 2021, 6, 939-970.	4.1	79
21	Ultralow-Power Machine Vision with Self-Powered Sensor Reservoir. <i>Advanced Science</i> , 2022, 9, e2106092.	5.6	68
22	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. <i>Science Advances</i> , 2016, 2, e1600209.	4.7	67
23	Morphology Engineering in Monolayer MoS ₂ WS ₂ Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1801568.	7.8	67
24	Controlled synthesis of γ -FeOOH nanorods and their transformation to mesoporous γ -Fe ₂ O ₃ , Fe ₃ O ₄ @C nanorods as anodes for lithium ion batteries. <i>RSC Advances</i> , 2013, 3, 15316.	1.7	66
25	Coupling and Interlayer Exciton in Twist-Stacked WS ₂ Bilayers. <i>Advanced Optical Materials</i> , 2015, 3, 1600-1605.	3.6	63
26	Relaxed and Strained Patterned Germanium-Tin Structures: A Raman Scattering Study. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, P138-P145.	0.9	62
27	Recent Progress in Synaptic Devices Based on 2D Materials. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900167.	3.3	55
28	Electrical Tuning of the SERS Enhancement by Precise Defect Density Control. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34091-34099.	4.0	52
29	Effect of Electron Irradiation on the Transport and Field Emission Properties of Few-Layer MoS ₂ Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1454-1461.	1.5	51
30	Ultralow switching voltage slope based on two-dimensional materials for integrated memory and neuromorphic applications. <i>Nano Energy</i> , 2020, 69, 104472.	8.2	50
31	Electrochemical Performance of Sb ₄ O ₅ Cl ₂ as a New Anode Material in Aqueous Chloride-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9144-9148.	4.0	44
32	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. <i>Advanced Functional Materials</i> , 2017, 27, 1605896.	7.8	35
33	ZnO Nanorods with Low Intrinsic Defects and High Optical Performance Grown by Facile Microwave-Assisted Solution Method. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4737-4743.	4.0	33
34	A new texturing technique of monocrystalline silicon surface with sodium hypochlorite. <i>Applied Surface Science</i> , 2009, 255, 9301-9304.	3.1	28
35	Vacuum level dependent photoluminescence in chemical vapor deposition-grown monolayer MoS ₂ . <i>Scientific Reports</i> , 2017, 7, 16714.	1.6	27
36	Coherent Thermoelectric Power from Graphene Quantum Dots. <i>Nano Letters</i> , 2019, 19, 61-68.	4.5	25

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37	Selective growth of monolayer semiconductors for diverse synaptic junctions. <i>2D Materials</i> , 2019, 6, 015029.	2.0	25
38	Ultrashort Verticalâ€Channel van der Waals Semiconductor Transistors. <i>Advanced Science</i> , 2020, 7, 1902964.	5.6	24
39	The composite electrode of Bi@carbon-texture derived from metal-organic frameworks for aqueous chloride ion battery. <i>Ionics</i> , 2020, 26, 2395-2403.	1.2	23
40	Raman analysis of gold on WSe ₂ single crystal film. <i>Materials Research Express</i> , 2015, 2, 065009.	0.8	20
41	Sb nanoparticle decorated rGO as a new anode material in aqueous chloride ion batteries. <i>Nanoscale</i> , 2020, 12, 12268-12274.	2.8	20
42	Resonant Tunneling Spectroscopy to Probe the Giant Stark Effect in Atomically Thin Materials. <i>Advanced Materials</i> , 2020, 32, e1906942.	11.1	18
43	Cucumber-Shaped Construction Combining Bismuth Nanoparticles with Carbon Nanofiber Networks as a Binder-Free and Freestanding Anode for Li-Ion Batteries. <i>Energy & Fuels</i> , 2020, 34, 8987-8992.	2.5	17
44	Towards Perfectly Ordered Novel ZnO/Si Nanoâ€Heterojunction Arrays. <i>Small</i> , 2014, 10, 344-348.	5.2	14
45	Crystallographically tilted and partially strain relaxed GaN grown on inclined {111} facets etched on Si(100) substrate. <i>Journal of Applied Physics</i> , 2013, 114, 243512.	1.1	10
46	Orbital Gating Driven by Giant Stark Effect in Tunneling Phototransistors. <i>Advanced Materials</i> , 2022, 34, e2106625.	11.1	9
47	Constructing van der Waals heterostructures by dry-transfer assembly for novel optoelectronic device. <i>Nanotechnology</i> , 2022, 33, 465601.	1.3	7
48	Significantly different mechanical properties and interfacial structures of Cu ₂ ZnSn(S,Se) ₄ films prepared from metallic and sulfur-contained precursors. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 389-394.	3.0	6
49	Memristive Crossbar Arrays for Storage and Computing Applications. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170065.	3.3	6
50	An aqueous rechargeable dual-ion hybrid battery based on Zn//LiTi ₂ (PO ₄) ₃ electrodes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2448-2452.	2.5	5
51	Classical and quantum phases in hexagonal boron nitrideâ€combined van der Waals heterostructures. <i>InformaÃ–MateriÃ–ly</i> , 2021, 3, 252-270.	8.5	5
52	Schottky-barrier quantum well in two-dimensional semiconductor nanotransistors. <i>Materials Today Physics</i> , 2020, 15, 100275.	2.9	4
53	Tuning the inhomogeneous charge transport in ZnO interfaces for ultrahigh on/off ratio top-gated field-effect-transistor arrays. <i>Nano Research</i> , 2020, 13, 3033-3040.	5.8	1