Linfeng Sun

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/407617/publications.pdf

Version: 2024-02-01

53	3,706	136740	161609
papers	citations	32 h-index	54 g-index

54	54	54	6200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Orbital Gating Driven by Giant Stark Effect in Tunneling Phototransistors. Advanced Materials, 2022, 34, e2106625.	11.1	9
2	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	2.6	94
3	Constructing van der Waals heterostructures by dry-transfer assembly for novel optoelectronic device. Nanotechnology, 2022, 33, 465601.	1.3	7
4	Ultralowâ€Power Machine Vision with Selfâ€Powered Sensor Reservoir. Advanced Science, 2022, 9, e2106092.	5.6	68
5	Classical and quantum phases in hexagonal boron nitrideâ€combined van der Waals heterostructures. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 252-270.	8.5	5
6	ABO₃multiferroic perovskite materials for memristive memory and neuromorphic computing. Nanoscale Horizons, 2021, 6, 939-970.	4.1	79
7	Negative Photoconductance Effect: An Extension Function of the TiO_xâ€Based Memristor. Advanced Science, 2021, 8, 2003765.	5.6	94
8	In-sensor reservoir computing for language learning via two-dimensional memristors. Science Advances, 2021, 7, .	4.7	175
9	Memristive Crossbar Arrays for Storage and Computing Applications. Advanced Intelligent Systems, 2021, 3, 2100017.	3.3	80
10	Memristive Crossbar Arrays for Storage and Computing Applications. Advanced Intelligent Systems, 2021, 3, 2170065.	3.3	6
11	Ultralow switching voltage slope based on two-dimensional materials for integrated memory and neuromorphic applications. Nano Energy, 2020, 69, 104472.	8.2	50
12	Ultrashort Verticalâ€Channel van der Waals Semiconductor Transistors. Advanced Science, 2020, 7, 1902964.	5.6	24
13	The composite electrode of Bi@carbon-texture derived from metal-organic frameworks for aqueous chloride ion battery. Ionics, 2020, 26, 2395-2403.	1.2	23
14	Schottky-barrier quantum well in two-dimensional semiconductor nanotransistors. Materials Today Physics, 2020, 15, 100275.	2.9	4
15	Tuning the inhomogeneous charge transport in ZnO interfaces for ultrahigh on/off ratio top-gated field-effect-transistor arrays. Nano Research, 2020, 13, 3033-3040.	5.8	1
16	Sb nanoparticle decorated rGO as a new anode material in aqueous chloride ion batteries. Nanoscale, 2020, 12, 12268-12274.	2.8	20
17	Cucumber-Shaped Construction Combining Bismuth Nanoparticles with Carbon Nanofiber Networks as a Binder-Free and Freestanding Anode for Li-Ion Batteries. Energy & Fuels, 2020, 34, 8987-8992.	2.5	17
18	An aqueous rechargeable dual-ion hybrid battery based on Zn//LiTi₂(PO₄)₃ electrodes. Sustainable Energy and Fuels, 2020, 4, 2448-2452.	2.5	5

#	Article	IF	Citations
19	Recent Progress in Synaptic Devices Based on 2D Materials. Advanced Intelligent Systems, 2020, 2, 1900167.	3.3	55
20	Resonant Tunneling Spectroscopy to Probe the Giant Stark Effect in Atomically Thin Materials. Advanced Materials, 2020, 32, e1906942.	11.1	18
21	Electrical Tuning of the SERS Enhancement by Precise Defect Density Control. ACS Applied Materials & Interfaces, 2019, 11, 34091-34099.	4.0	52
22	Self-selective van der Waals heterostructures for large scale memory array. Nature Communications, 2019, 10, 3161.	5.8	139
23	Surface modification of Na₂Ti₃O₇ nanofibre arrays using N-doped graphene quantum dots as advanced anodes for sodium-ion batteries with ultra-stable and high-rate capability. Journal of Materials Chemistry A, 2019, 7, 12751-12762.	5.2	83
24	Electrochemical Performance of Sb₄O₅Cl₂ as a New Anode Material in Aqueous Chloride-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 9144-9148.	4.0	44
25	Effect of Electron Irradiation on the Transport and Field Emission Properties of Few-Layer MoS₂ Field-Effect Transistors. Journal of Physical Chemistry C, 2019, 123, 1454-1461.	1.5	51
26	Coherent Thermoelectric Power from Graphene Quantum Dots. Nano Letters, 2019, 19, 61-68.	4.5	25
27	Selective growth of monolayer semiconductors for diverse synaptic junctions. 2D Materials, 2019, 6, 015029.	2.0	25
28	Synaptic Computation Enabled by Joule Heating of Single-Layered Semiconductors for Sound Localization. Nano Letters, 2018, 18, 3229-3234.	4.5	134
29	Ar plasma modification of 2D MXene Ti 3 C 2 T x nanosheets for efficient capacitive desalination. FlatChem, 2018, 8, 17-24.	2.8	106
30	Asymmetric Schottky Contacts in Bilayer MoS₂ Field Effect Transistors. Advanced Functional Materials, 2018, 28, 1800657.	7.8	162
31	Morphology Engineering in Monolayer MoS₂â€WS₂ Lateral Heterostructures. Advanced Functional Materials, 2018, 28, 1801568.	7.8	67
32	Concurrent Synthesis of Highâ€Performance Monolayer Transition Metal Disulfides. Advanced Functional Materials, 2017, 27, 1605896.	7.8	35
33	Vacuum level dependent photoluminescence in chemical vapor deposition-grown monolayer MoS 2. Scientific Reports, 2017, 7, 16714.	1.6	27
34	Dual-ions electrochemical deionization: a desalination generator. Energy and Environmental Science, 2017, 10, 2081-2089.	15.6	259
35	Metalâ€“Semiconductor Phaseâ€Transition in WSe_{2(1â€}_x₎Te₂_x Monolayer. Advanced Materials, 2017, 29, 1603991.	11.1	123
36	Fast Photoresponse from 1T Tin Diselenide Atomic Layers. Advanced Functional Materials, 2016, 26, 137-145.	7.8	150

#	Article	IF	Citations
37	Subatomic deformation driven by vertical piezoelectricity from CdS ultrathin films. Science Advances, 2016, 2, e1600209.	4.7	67
38	Strong interfacial coupling of MoS2/g-C3N4 van de Waals solids for highly active water reduction. Nano Energy, 2016, 27, 44-50.	8.2	96
39	Coupling and Interlayer Exciton in Twistâ€Stacked WS₂ Bilayers. Advanced Optical Materials, 2015, 3, 1600-1605.	3.6	63
40	ZnO Nanorods with Low Intrinsic Defects and High Optical Performance Grown by Facile Microwave-Assisted Solution Method. ACS Applied Materials & Interfaces, 2015, 7, 4737-4743.	4.0	33
41	Significantly different mechanical properties and interfacial structures of Cu2ZnSn(S,Se)4 films prepared from metallic and sulfur-contained precursors. Solar Energy Materials and Solar Cells, 2015, 134, 389-394.	3.0	6
42	Raman analysis of gold on WSe₂ single crystal film. Materials Research Express, 2015, 2, 065009.	0.8	20
43	Monolayers of WxMo1â^'xS2 alloy heterostructure with in-plane composition variations. Applied Physics Letters, 2015, 106, .	1.5	99
44	Controlled Synthesis of High-Quality Monolayered Î±-In₂Se₃ via Physical Vapor Deposition. Nano Letters, 2015, 15, 6400-6405.	4.5	239
45	Towards Perfectly Ordered Novel ZnO/Si Nanoâ€Heterojunction Arrays. Small, 2014, 10, 344-348.	5.2	14
46	Study on Phase Formation Mechanism of Non- and Near-Stoichiometric Cu₂ZnSn(S,Se)₄ Film Prepared by Selenization of Cuâ€“Snâ€“Znâ€“S Precursors. Chemistry of Materials, 2014, 26, 2005-2014.	3.2	83
47	Plasma Modified MoS₂ Nanoflakes for Surface Enhanced Raman Scattering. Small, 2014, 10, 1090-1095.	5.2	129
48	Ultrafast Carrier Thermalization and Cooling Dynamics in Few-Layer MoS₂. ACS Nano, 2014, 8, 10931-10940.	7.3	236
49	Controlled synthesis of Î±-FeOOH nanorods and their transformation to mesoporous Î±-Fe2O3, Fe3O4@C nanorods as anodes for lithium ion batteries. RSC Advances, 2013, 3, 15316.	1.7	66
50	Spin-Orbit Splitting in Single-Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Revealed by Triply Resonant Raman Scattering. Physical Review Letters, 2013, 111, 126801.	2.9	137
51	Relaxed and Strained Patterned Germanium-Tin Structures: A Raman Scattering Study. ECS Journal of Solid State Science and Technology, 2013, 2, P138-P145.	0.9	62
52	Crystallographically tilted and partially strain relaxed GaN grown on inclined {111} facets etched on Si(100) substrate. Journal of Applied Physics, 2013, 114, 243512.	1.1	10
53	A new texturing technique of monocrystalline silicon surface with sodium hypochlorite. Applied Surface Science, 2009, 255, 9301-9304.	3.1	28