

Haiyan Nan

List of Publications by Year in descending order

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51
papers

4,945
citations

279798
23
h-index

189892
50
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52
all docs

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docs citations

52
times ranked

8296
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourfold Polarization-Sensitive Photodetector Based on GaTe/MoS ₂ van der Waals Heterojunction. <i>Advanced Electronic Materials</i> , 2022, 8, 2100673.	5.1	21
2	Status and prospects of Ohmic contacts on two-dimensional semiconductors. <i>Nanotechnology</i> , 2022, 33, 062005.	2.6	5
3	Lithography-free and high-efficiency preparation of black phosphorous devices by direct evaporation through shadow mask. <i>Nanotechnology</i> , 2022, 33, 225201.	2.6	1
4	A novel contact engineering method for transistors based on two-dimensional materials. <i>Journal of Materials Science and Technology</i> , 2021, 69, 15-19.	10.7	10
5	Effect of the surface oxide layer on the stability of black phosphorus. <i>Applied Surface Science</i> , 2021, 537, 147850.	6.1	21
6	Controllable synthesis of SnS ₂ flakes and MoS ₂ /SnS ₂ heterostructures by confined-space chemical vapor deposition. <i>CrystEngComm</i> , 2021, 23, 2563-2571.	2.6	8
7	Controllable Epitaxial Growth of Large-Area MoS ₂ /WS ₂ Vertical Heterostructures by Confined-Space Chemical Vapor Deposition. <i>Small</i> , 2021, 17, e2007312.	10.0	37
8	Highly crystalline Mo _{1-x} Re _x S ₂ monolayers by NaCl-assisted and space-confined chemical vapor deposition. <i>Thin Solid Films</i> , 2021, 722, 138576.	1.8	2
9	Large-scale MoS ₂ (1-x)Se _x monolayers synthesized by confined-space CVD. <i>Nanotechnology</i> , 2021, 32, 355601.	2.6	6
10	Controllable synthesis of WS ₂ (1-x)Se _x monolayers with fast photoresponse by a facile chemical vapor deposition strategy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 269, 115176.	3.5	12
11	Bidirectional doping of two-dimensional thin-layer transition metal dichalcogenides using soft ammonia plasma. <i>Nanoscale</i> , 2021, 13, 15278-15284.	5.6	5
12	High performance IGZO-based phototransistors by BN/BP interface engineering. <i>Nanotechnology</i> , 2021, 32, 025201.	2.6	2
13	Synergic Effects of the Nanopore Size and Surface Charge on the Ion Selectivity of Graphene Membranes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 507-514.	3.1	11
14	Controllable Synthesis of Crystalline ReS ₂ (1-x)Se _x Monolayers on Amorphous SiO ₂ /Si Substrates with Fast Photoresponse. <i>Advanced Optical Materials</i> , 2020, 8, 1901415.	7.3	23
15	2D atomic crystal molecular superlattices by soft plasma intercalation. <i>Nature Communications</i> , 2020, 11, 5960.	12.8	36
16	Enhanced photoresponsivity of InSe photodetector by molecular doping. <i>Applied Physics Express</i> , 2020, 13, 111005.	2.4	1
17	Recent advances in plasma modification of 2D transition metal dichalcogenides. <i>Nanoscale</i> , 2019, 11, 19202-19213.	5.6	73
18	Two-Dimensional Alloying Molybdenum Tin Disulfide Monolayers with Fast Photoresponse. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39077-39087.	8.0	28

#	ARTICLE	IF	CITATIONS
19	Effect of thermal conductivity of substrate on laser-induced phase transition of MoTe_2 . Journal of Raman Spectroscopy, 2019, 50, 755-761.	2.5	17
20	Transition metal dichalcogenides bilayer single crystals by reverse-flow chemical vapor epitaxy. Nature Communications, 2019, 10, 598.	12.8	124
21	Optical studies of the thermal stability of InSe nanosheets. Applied Surface Science, 2019, 467-468, 860-867.	6.1	6
22	Soft hydrogen plasma induced phase transition in monolayer and few-layer MoTe_2 . Nanotechnology, 2019, 30, 034004.	2.6	29
23	Organic charge-transfer interface enhanced graphene hybrid phototransistors. Organic Electronics, 2019, 64, 22-26.	2.6	25
24	Layer-controllable graphene by plasma thinning and post-annealing. Applied Surface Science, 2018, 441, 639-646.	6.1	21
25	The effect of Au nanoparticles on the strain-dependent electrical properties of CVD graphene. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	4
26	The effect of graphene on surface plasmon resonance of metal nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 25078-25084.	2.8	29
27	Robust Fabrication of Quantum Dots on Few-Layer MoS_2 by Soft Hydrogen Plasma and Post-Annealing. Particle and Particle Systems Characterization, 2018, 35, 1800060.	2.3	3
28	Producing air-stable InSe nanosheet through mild oxygen plasma treatment. Semiconductor Science and Technology, 2018, 33, 074002.	2.0	24
29	Large-size $\text{Mo}_{1-x}\text{W}_x\text{S}_2$ and $\text{W}_{1-x}\text{Mo}_x\text{S}_2$ ($x=0\sim 0.5$) monolayers by confined-space chemical vapor deposition. Applied Surface Science, 2018, 457, 591-597.	6.1	17
30	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. Nano Research, 2017, 10, 1336-1344.	10.4	30
31	Synergistic graphene/aluminum surface plasmon coupling for zinc oxide lasing improvement. Nano Research, 2017, 10, 1996-2004.	10.4	23
32	Investigation of multilayer domains in large-scale CVD monolayer graphene by optical imaging. Journal of Semiconductors, 2017, 38, 033003.	3.7	8
33	Improving the electrical performance of MoS_2 by mild oxygen plasma treatment. Journal Physics D: Applied Physics, 2017, 50, 154001.	2.8	50
34	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. Nano Letters, 2017, 17, 6391-6396.	9.1	87
35	Graphene Sheet-Induced Global Maturation of Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 25929-25940.	8.0	48
36	Shape-Uniform, High-Quality Monolayered MoS_2 Crystals for Gate-Tunable Photoluminescence. ACS Applied Materials & Interfaces, 2017, 9, 42121-42130.	8.0	51

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37	Probing the intrinsic optical quality of CVD grown MoS ₂ . Nano Research, 2017, 10, 1608-1617.	10.4	67
38	Enhanced stimulated Brillouin scattering effect by using multilayer molybdenum disulfide on fibre end. , 2017, , .		0
39	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. Advanced Functional Materials, 2016, 26, 3191-3198.	14.9	136
40	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. Nano Letters, 2016, 16, 3754-3759.	9.1	92
41	Manipulating fluorescence quenching efficiency of graphene by defect engineering. Applied Physics Express, 2016, 9, 055502.	2.4	14
42	Defects as a factor limiting carrier mobility in WSe ₂ : A spectroscopic investigation. Nano Research, 2016, 9, 3622-3631.	10.4	126
43	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. Advanced Materials, 2016, 28, 5200-5205.	21.0	134
44	High-Performance Monolayer WS ₂ Field-Effect Transistors on High- ϵ Dielectrics. Advanced Materials, 2015, 27, 5230-5234.	21.0	218
45	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. Nature Communications, 2014, 5, 5162.	12.8	315
46	Noise-like pulse generation by gold-coated graphene covered D-shape fibre as both saturable absorber and polarizer. , 2014, , .		0
47	Strong Photoluminescence Enhancement of MoS ₂ through Defect Engineering and Oxygen Bonding. ACS Nano, 2014, 8, 5738-5745.	14.6	995
48	Plasma-assisted fabrication of monolayer phosphorene and its Raman characterization. Nano Research, 2014, 7, 853-859.	10.4	606
49	Hopping transport through defect-induced localized states in molybdenum disulphide. Nature Communications, 2013, 4, 2642.	12.8	935
50	Layer-by-Layer Thinning of MoS ₂ by Plasma. ACS Nano, 2013, 7, 4202-4209.	14.6	387
51	Surface-enhanced Raman scattering from graphene covered gold nanocap arrays. Journal of Applied Physics, 2013, 114, .	2.5	19