

Mengxing Sun

List of Publications by Year in descending order

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papers

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citations

516710

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docs citations

23
times ranked

1882
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfigurable optical memory based on MoS ₂ /QDs mixed-dimensional van der Waals heterostructure. 2D Materials, 2021, 8, 025021.	4.4	12
2	Optically stimulated synaptic transistor based on MoS ₂ /quantum dots mixed-dimensional heterostructure with gate-tunable plasticity. Optics Letters, 2021, 46, 1748.	3.3	12
3	Optogenetics-Inspired Neuromorphic Optoelectronic Synaptic Transistors with Optically Modulated Plasticity. Advanced Optical Materials, 2021, 9, 2002232.	7.3	28
4	Gate stimulated high-performance MoS ₂ -In(OH) x Se phototransistor. Nanotechnology, 2020, 31, 095203.	2.6	2
5	Enhanced room-temperature NO ₂ -sensing performance of AgNPs/rGO nanocomposites. Chemical Physics Letters, 2020, 738, 136873.	2.6	9
6	Self-Powered MoS ₂ -PDPP3T Heterotransistor-Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
7	Reduced Graphene Oxide/Mesoporous ZnO NSs Hybrid Fibers for Flexible, Stretchable, Twisted, and Wearable NO ₂ E-Textile Gas Sensor. ACS Sensors, 2019, 4, 2809-2818.	7.8	114
8	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. Advanced Functional Materials, 2019, 29, 1902538.	14.9	132
9	2D perovskite microsheets for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5353-5358.	5.5	54
10	UV light irradiation enhanced gas sensor selectivity of NO ₂ and SO ₂ using rGO functionalized with hollow SnO ₂ nanofibers. Sensors and Actuators B: Chemical, 2019, 290, 443-452.	7.8	112
11	Thickness Tunable Wedding-Cake-like MoS ₂ Flakes for High-Performance Optoelectronics. ACS Nano, 2019, 13, 3649-3658.	14.6	75
12	All-Inorganic Perovskite Nanowires-InGaZnO Heterojunction for High-Performance Ultraviolet-Visible Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 7231-7238.	8.0	53
13	Application of chemical vapor-deposited monolayer ReSe ₂ in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71
14	Locally hydrazine doped WSe ₂ p-n junction toward high-performance photodetectors. Nanotechnology, 2018, 29, 015203.	2.6	36
15	Heterostructured graphene quantum dot/WSe ₂ /Si photodetector with suppressed dark current and improved detectivity. Nano Research, 2018, 11, 3233-3243.	10.4	67
16	Reduced Graphene Oxide for Room Temperature Ammonia (NH ₃) Gas Sensor. Journal of Nanoscience and Nanotechnology, 2018, 18, 7927-7932.	0.9	17
17	Sprayed, Scalable, Wearable, and Portable NO ₂ Sensor Array Using Fully Flexible AgNPs-All-Carbon Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 34485-34493.	8.0	74
18	Poly (ethylene imine)-modulated transport behaviors of graphene field effect transistors with double Dirac points. Journal of Applied Physics, 2017, 121, .	2.5	10

#	ARTICLE	IF	CITATIONS
19	Novel Transfer Behaviors in 2D MoS ₂ /WSe ₂ Heterotransistor and Its Applications in Visible-Near Infrared Photodetection. <i>Advanced Electronic Materials</i> , 2017, 3, 1600502.	5.1	51
20	Lateral multilayer/monolayer MoS ₂ heterojunction for high performance photodetector applications. <i>Scientific Reports</i> , 2017, 7, 4505.	3.3	35
21	High-performance heterogeneous complementary inverters based on n-channel MoS ₂ and p-channel SWCNT transistors. <i>Nano Research</i> , 2017, 10, 276-283.	10.4	13
22	Tunable transfer behaviors of single-layer WSe ₂ field effect transistors by hydrazine. , 2016, , .		0
23	Structure, photoluminescence and thermal properties of Ce ³⁺ , Mn ²⁺ co-doped phosphosilicate Sr ₇ La ₃ [(PO ₄) _{2.5} (SiO ₄) ₃ (BO ₄) _{0.5}] emission-tunable phosphor. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5850-5856.		