Mengxing Sun

List of Publications by Year
in descending order

23 papers	1,057 citations	516710 16 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	1882 citing authors

#	Article	IF	Citations
1	Photoelectric Synaptic Plasticity Realized by 2D Perovskite. Advanced Functional Materials, 2019, 29, 1902538.	14.9	132
2	Reduced Graphene Oxide/Mesoporous ZnO NSs Hybrid Fibers for Flexible, Stretchable, Twisted, and Wearable NO₂ E-Textile Gas Sensor. ACS Sensors, 2019, 4, 2809-2818.	7.8	114
3	UV light irradiation enhanced gas sensor selectivity of NO2 and SO2 using rGO functionalized with hollow SnO2 nanofibers. Sensors and Actuators B: Chemical, 2019, 290, 443-452.	7.8	112
4	Thickness Tunable Wedding-Cake-like MoS₂ Flakes for High-Performance Optoelectronics. ACS Nano, 2019, 13, 3649-3658.	14.6	75
5	Sprayed, Scalable, Wearable, and Portable NO₂ Sensor Array Using Fully Flexible AgNPs-All-Carbon Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 34485-34493.	8.0	74
6	Application of chemical vaporâ€“deposited monolayer ReSe2 in the electrocatalytic hydrogen evolution reaction. Nano Research, 2018, 11, 1787-1797.	10.4	71
7	Heterostructured graphene quantum dot/WSe2/Si photodetector with suppressed dark current and improved detectivity. Nano Research, 2018, 11, 3233-3243.	10.4	67
8	2D perovskite microsheets for high-performance photodetectors. Journal of Materials Chemistry C, 2019, 7, 5353-5358.	5.5	54
9	All-Inorganic Perovskite Nanowiresâ€“InGaZnO Heterojunction for High-Performance Ultravioletâ€“Visible Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 7231-7238.	8.0	53
10	Novel Transfer Behaviors in 2D MoS₂/WSe₂ Heterotransistor and Its Applications in Visibleâ€Near Infrared Photodetection. Advanced Electronic Materials, 2017, 3, 1600502.	5.1	51
11	Structure, photoluminescence and thermal properties of Ce³⁺, Mn²⁺ co-doped phosphosilicate Sr₇La₃[(PO₄)_{2.5}(SiO₄)₃(BO₄)_{0.5} emission-tunable phosphor. Journal of Materials Chemistry C, 2014, 2, 5850-5856.	5.5	45
12	Locally hydrazine doped WSe₂ p-n junction toward high-performance photodetectors. Nanotechnology, 2018, 29, 015203.	2.6	36
13	Lateral multilayer/monolayer MoS2 heterojunction for high performance photodetector applications. Scientific Reports, 2017, 7, 4505.	3.3	35
14	Selfâ€Powered MoS₂â€“PDPP3T Heterotransistorâ€Based Broadband Photodetectors. Advanced Electronic Materials, 2019, 5, 1800580.	5.1	35
15	Optogeneticsâ€Inspired Neuromorphic Optoelectronic Synaptic Transistors with Optically Modulated Plasticity. Advanced Optical Materials, 2021, 9, 2002232.	7.3	28
16	Reduced Graphene Oxide for Room Temperature Ammonia (NH₃) Gas Sensor. Journal of Nanoscience and Nanotechnology, 2018, 18, 7927-7932.	0.9	17
17	High-performance heterogeneous complementary inverters based on n-channel MoS2 and p-channel SWCNT transistors. Nano Research, 2017, 10, 276-283.	10.4	13
18	Reconfigurable optical memory based on MoS₂/QDs mixed-dimensional van der Waals heterostructure. 2D Materials, 2021, 8, 025021.	4.4	12

#	Article	IF	Citations
19	Optically stimulated synaptic transistor based on MoS₂/quantum dots mixed-dimensional heterostructure with gate-tunable plasticity. Optics Letters, 2021, 46, 1748.	3.3	12
20	Poly (ethylene imine)-modulated transport behaviors of graphene field effect transistors with double Dirac points. Journal of Applied Physics, 2017, 121, .	2.5	10
21	Enhanced room-temperature NO2-sensing performance of AgNPs/rGO nanocomposites. Chemical Physics Letters, 2020, 738, 136873.	2.6	9
22	Gate stimulated high-performance MoS2-In(OH) x Se phototransistor. Nanotechnology, 2020, 31, 095203.	2.6	2
23	Tunable transfer behaviors of single-layer WSe2 field effect transistors by hydrazine. , 2016, , .		0