

Juehan Yang

List of Publications by Year in descending order

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times ranked

2226
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-Field Tunable Band Offsets in Black Phosphorus and MoS ₂ van der Waals p-n Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2483-2488.	2.1	193
2	Tunable Polarity Behavior and Self-Driven Photoswitching in WSe ₂ /WS ₂ Heterojunctions. <i>Small</i> , 2015, 11, 5430-5438.	5.2	114
3	Flexible Smart Noncontact Control Systems with Ultrasensitive Humidity Sensors. <i>Small</i> , 2019, 15, e1902801.	5.2	110
4	Gas-dependent photoresponse of SnS nanoparticles-based photodetectors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1397-1402.	2.7	86
5	Synthesis and Transport Properties of Large-Scale Alloy Co _{0.16} Mo _{0.84} S ₂ Bilayer Nanosheets. <i>ACS Nano</i> , 2015, 9, 1257-1262.	7.3	79
6	Anisotropic photoresponse of layered 2D SnS-based near infrared photodetectors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11288-11293.	2.7	77
7	Novel Optical and Electrical Transport Properties in Atomically Thin WSe ₂ /MoS ₂ p-n Heterostructures. <i>Advanced Electronic Materials</i> , 2015, 1, 1400066.	2.6	67
8	Direct Polarimetric Image Sensor and Wide Spectral Response Based on Quasi-1D Sb ₂ S ₃ Nanowire. <i>Advanced Functional Materials</i> , 2021, 31, 2006601.	7.8	52
9	Growth of large area few-layer or monolayer MoS ₂ from controllable MoO ₃ nanowire nuclei. <i>RSC Advances</i> , 2014, 4, 26407.	1.7	49
10	Flexible Sensors Based on Organic-Inorganic Hybrid Materials. <i>Advanced Materials Technologies</i> , 2021, 6, 2000889.	3.0	43
11	In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. <i>ACS Nano</i> , 2021, 15, 1701-1709.	7.3	41
12	Cross-Substitution Promoted Ultrawide Bandgap up to 4.5 eV in a 2D Semiconductor: Gallium Thiophosphate. <i>Advanced Materials</i> , 2021, 33, e2008761.	11.1	41
13	Abnormal Photocurrent Response and Enhanced Photocatalytic Activity Induced by Charge Transfer between WS ₂ Nanosheets and WO ₃ Nanoparticles. <i>ChemPhysChem</i> , 2013, 14, 4069-4073.	1.0	37
14	SWCNT-MoS ₂ Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1604469.	11.1	32
15	Short-Wave Near-Infrared Polarization Sensitive Photodetector Based on GaSb Nanowire. <i>IEEE Electron Device Letters</i> , 2021, 42, 549-552.	2.2	31
16	Wavelength-selectivity polarization dependence of optical absorption and photoresponse in SnS nanosheets. <i>Nano Research</i> , 2021, 14, 2224.	5.8	29
17	Polarimetric Image Sensor and Fermi Level Shifting Induced Multichannel Transition Based on 2D PdPS. <i>Advanced Materials</i> , 2022, 34, e2107206.	11.1	29
18	Gate-Tunable Ultrahigh Photoresponsivity of 2D Heterostructures Based on Few Layer MoS ₂ and Solution-Processed rGO. <i>Advanced Electronic Materials</i> , 2015, 1, 1500267.	2.6	28

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19	Low temperature electrical transport and photoresponsive properties of H-doped MoO ₃ nanosheets. Journal of Materials Chemistry C, 2014, 2, 1034-1040.	2.7	26
20	Low temperature electrical and photo-responsive properties of MoSe ₂ . Applied Physics Letters, 2014, 104, .	1.5	21
21	Novel micro-rings of molybdenum disulfide (MoS ₂). Nanoscale, 2014, 6, 14652-14656.	2.8	21
22	Intercalation of Two-dimensional Layered Materials. Chemical Research in Chinese Universities, 2020, 36, 584-596.	1.3	21
23	Direct Synthesis and Enhanced Rectification of Alloyed Alloy 2D Type-II MoS ₂ (1-x)Se ₂ x/SnS ₂ (1-x)S ₂ y Heterostructures. Advanced Materials, 2021, 33, e2006908.		
24	Visible Phototransistors Based on Vertical Nanolayered Heterostructures of SnS/SnS ₂ and SnSe ₂ /SnS ₂ Nanoflakes. ACS Applied Nano Materials, 2020, 3, 6847-6854.	2.4	19
25	Effect of Electrical Contact on the Performance of Bi ₂ S ₃ Single Nanowire Photodetectors. ChemPhysChem, 2014, 15, 2510-2516.	1.0	18
26	Oxygen-induced abnormal photoelectric behavior of a MoO ₃ /graphene heterocomposite. RSC Advances, 2014, 4, 49873-49878.	1.7	18
27	Improving the Field-Effect Performance of Bi ₂ S ₃ Single Nanowires by an Asymmetric Device Fabrication. ChemPhysChem, 2015, 16, 99-103.	1.0	18
28	2D Ultrawide Bandgap Semiconductors: Odyssey and Challenges. Small Methods, 2022, 6, e2101348.	4.6	18
29	Birefringence and Dichroism in Quasi-1D Transition Metal Trichalcogenides: Direct Experimental Investigation. Small, 2021, 17, e2100457.	5.2	17
30	In-plane ferroelectricity in few-layered GeS and its van der Waals ferroelectric diodes. Nanoscale, 2021, 13, 16122-16130.	2.8	15
31	Tunable Alloying Improved Wide Spectrum UV-Vis-NIR and Polarization-Sensitive Photodetector Based on Sb ₂ Se Nanowires. IEEE Transactions on Electron Devices, 2021, 68, 3887-3893.	1.6	15
32	Gate-controlled ambipolar transport in b-AsP crystals and their VIS-NIR photodetection. Nanoscale, 2021, 13, 10579-10586.	2.8	15
33	Synthesis of the nanostructured Cd ₄ GeS ₆ photocatalysts and their visible-light-driven photocatalytic degradation property. Journal of Alloys and Compounds, 2014, 597, 91-94.	2.8	14
34	Nondegenerate p-type In-doped SnS ₂ Monolayer Transistor. Advanced Electronic Materials, 2021, 7, 2001168.	2.6	13
35	Synthesis of Bi ₂ S ₃ -Bi ₂ O ₃ composites and their enhanced photosensitive properties. RSC Advances, 2014, 4, 5666.	1.7	11
36	Longitudinal twinning In ₂ Se ₃ nanowires for UV-visible-NIR photodetectors with high sensitivity. Frontiers of Optoelectronics, 2018, 11, 245-255.	1.9	10

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37	Cation Alloying Induced Blue-Shifted and Wide-Spectrum Polarization-Sensitive Photodetection in Quasi-1D SbBiS ₃ . Small Structures, 2022, 3, .	6.9	10
38	Magnetic and transport properties of a ferromagnetic layered semiconductor MnIn ₂ Se ₄ . Applied Physics Letters, 2019, 115, .	1.5	8
39	Quantum Confinement Effects on Excitonic Properties in the 2D vdW quantum system: The ZnO/WSe ₂ Case. Advanced Photonics Research, 2021, 2, 2000114.	1.7	5
40	Transition Metal Trichalcogenides: Birefringence and Dichroism in Quasi-1D Transition Metal Trichalcogenides: Direct Experimental Investigation (Small 21/2021). Small, 2021, 17, 2170098.	5.2	0
41	Photodetectors: Cross-Substitution Promoted Ultrawide Bandgap up to 4.5 eV in a 2D Semiconductor: Gallium Thiophosphate (Adv. Mater. 22/2021). Advanced Materials, 2021, 33, 2170169.	11.1	0