

# Juehan Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5926681/publications.pdf>

Version: 2024-02-01

41  
papers

1,472  
citations

331538

21  
h-index

315616

38  
g-index

41  
all docs

41  
docs citations

41  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarimetric Image Sensor and Fermi Level Shifting Induced Multichannel Transition Based on 2D PdPS. <i>Advanced Materials</i> , 2022, 34, e2107206.	11.1	29
2	2D Ultrawide Bandgap Semiconductors: Odyssey and Challenges. <i>Small Methods</i> , 2022, 6, e2101348.	4.6	18
3	Cation-Alloying-Induced Blue-Shifted and Wide-Spectrum Polarization-Sensitive Photodetection in Quasi-1D SbBiS <sub>3</sub> . <i>Small Structures</i> , 2022, 3, .	6.9	10
4	In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. <i>ACS Nano</i> , 2021, 15, 1701-1709.	7.3	41
5	Direct Polarimetric Image Sensor and Wide Spectral Response Based on Quasi-1D Sb <sub>2</sub> S <sub>3</sub> Nanowire. <i>Advanced Functional Materials</i> , 2021, 31, 2006601.	7.8	52
6	Direct Synthesis and Enhanced Rectification of Alloyed Alloy 2D Type-II MoS <sub>2</sub> (1-x)Se <sub>2</sub> (1+x)SnS <sub>2</sub> (1-x)S <sub>2</sub> Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2006908.	4.5	25
7	In-plane ferroelectricity in few-layered GeS and its van der Waals ferroelectric diodes. <i>Nanoscale</i> , 2021, 13, 16122-16130.	2.8	15
8	Wavelength-selectivity polarization dependence of optical absorption and photoresponse in SnS nanosheets. <i>Nano Research</i> , 2021, 14, 2224.	5.8	29
9	Flexible Sensors Based on Organic-Inorganic Hybrid Materials. <i>Advanced Materials Technologies</i> , 2021, 6, 2000889.	3.0	43
10	Quantum Confinement Effects on Excitonic Properties in the 2D vdW quantum system: The ZnO/WSe <sub>2</sub> Case. <i>Advanced Photonics Research</i> , 2021, 2, 2000114.	1.7	5
11	Nondegenerate p-Type In-Doped SnS <sub>2</sub> Monolayer Transistor. <i>Advanced Electronic Materials</i> , 2021, 7, 2001168.	2.6	13
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	Birefringence and Dichroism in Quasi-1D Transition Metal Trichalcogenides: Direct Experimental Investigation. <i>Small</i> , 2021, 17, e2100457.	5.2	17
14	Short-Wave Near-Infrared Polarization Sensitive Photodetector Based on GaSb Nanowire. <i>IEEE Electron Device Letters</i> , 2021, 42, 549-552.	2.2	31
15	Transition Metal Trichalcogenides: Birefringence and Dichroism in Quasi-1D Transition Metal Trichalcogenides: Direct Experimental Investigation (Small 21/2021). <i>Small</i> , 2021, 17, 2170098.	5.2	0
16	Photodetectors: Cross-Substitution Promoted Ultrawide Bandgap up to 4.5 eV in a 2D Semiconductor: Gallium Thiophosphate (Adv. Mater. 22/2021). <i>Advanced Materials</i> , 2021, 33, 2170169.	11.1	0
17	Tunable Alloying Improved Wide Spectrum UV-Vis-NIR and Polarization-Sensitive Photodetector Based on Sb-Se Nanowires. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 3887-3893.	1.6	15
18	Gate-controlled ambipolar transport in b-AsP crystals and their VIS-NIF photodetection. <i>Nanoscale</i> , 2021, 13, 10579-10586.	2.8	15

#	ARTICLE	IF	CITATIONS
19	Intercalation of Two-dimensional Layered Materials. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 584-596.	1.3	21
20	Visible Phototransistors Based on Vertical Nanolayered Heterostructures of SnS/SnS <sub>2</sub> p-n and SnSe <sub>2</sub> /SnS <sub>2</sub> n-n Nanoflakes. <i>ACS Applied Nano Materials</i> , 2020, 3, 6847-6854.	2.4	19
21	Flexible Smart Noncontact Control Systems with Ultrasensitive Humidity Sensors. <i>Small</i> , 2019, 15, e1902801.	5.2	110
22	Magnetic and transport properties of a ferromagnetic layered semiconductor MnIn <sub>2</sub> Se <sub>4</sub> . <i>Applied Physics Letters</i> , 2019, 115, .	1.5	8
23	Longitudinal twinning In <sub>2</sub> Se <sub>3</sub> nanowires for UV-visible-NIR photodetectors with high sensitivity. <i>Frontiers of Optoelectronics</i> , 2018, 11, 245-255.	1.9	10
24	SWCNT/MoS <sub>2</sub> /SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1604469.	11.1	32
25	Anisotropic photoresponse of layered 2D SnS-based near infrared photodetectors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11288-11293.	2.7	77
26	Tunable Polarity Behavior and Self-Driven Photoswitching in WSe <sub>2</sub> /n-WSe <sub>2</sub> Heterojunctions. <i>Small</i> , 2015, 11, 5430-5438.	5.2	114
27	Gate-Tunable Ultrahigh Photoresponsivity of 2D Heterostructures Based on Few Layer MoS <sub>2</sub> and Solution-Processed rGO. <i>Advanced Electronic Materials</i> , 2015, 1, 1500267.	2.6	28
28	Improving the Field-Effect Performance of Bi <sub>2</sub> S <sub>3</sub> Single Nanowires by an Asymmetric Device Fabrication. <i>ChemPhysChem</i> , 2015, 16, 99-103.	1.0	18
29	Gas-dependent photoresponse of SnS nanoparticles-based photodetectors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1397-1402.	2.7	86
30	Synthesis and Transport Properties of Large-Scale Alloy Co <sub>0.16</sub> Mo <sub>0.84</sub> S <sub>2</sub> Bilayer Nanosheets. <i>ACS Nano</i> , 2015, 9, 1257-1262.	7.3	79
31	Electric-Field Tunable Band Offsets in Black Phosphorus and MoS <sub>2</sub> van der Waals p-n Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2483-2488.	2.1	193
32	Novel Optical and Electrical Transport Properties in Atomically Thin WSe <sub>2</sub> /MoS <sub>2</sub> p-n Heterostructures. <i>Advanced Electronic Materials</i> , 2015, 1, 1400066.	2.6	67
33	Effect of Electrical Contact on the Performance of Bi <sub>2</sub> S <sub>3</sub> Single Nanowire Photodetectors. <i>ChemPhysChem</i> , 2014, 15, 2510-2516.	1.0	18
34	Low temperature electrical and photo-responsive properties of MoSe <sub>2</sub> . <i>Applied Physics Letters</i> , 2014, 104, .	1.5	21
35	Synthesis of the nanostructured Cd <sub>4</sub> GeS <sub>6</sub> photocatalysts and their visible-light-driven photocatalytic degradation property. <i>Journal of Alloys and Compounds</i> , 2014, 597, 91-94.	2.8	14
36	Low temperature electrical transport and photoresponsive properties of H-doped MoO <sub>3</sub> nanosheets. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1034-1040.	2.7	26

#	ARTICLE	IF	CITATIONS
37	Novel micro-rings of molybdenum disulfide (MoS <sub>2</sub> ). <i>Nanoscale</i> , 2014, 6, 14652-14656.	2.8	21
38	Synthesis of Bi <sub>2</sub> S <sub>3</sub> @Bi <sub>2</sub> O <sub>3</sub> composites and their enhanced photosensitive properties. <i>RSC Advances</i> , 2014, 4, 5666.	1.7	11
39	Oxygen-induced abnormal photoelectric behavior of a MoO <sub>3</sub> /graphene heterocomposite. <i>RSC Advances</i> , 2014, 4, 49873-49878.	1.7	18
40	Growth of large area few-layer or monolayer MoS <sub>2</sub> from controllable MoO <sub>3</sub> nanowire nuclei. <i>RSC Advances</i> , 2014, 4, 26407.	1.7	49
41	Abnormal Photocurrent Response and Enhanced Photocatalytic Activity Induced by Charge Transfer between WS <sub>2</sub> Nanosheets and WO <sub>3</sub> Nanoparticles. <i>ChemPhysChem</i> , 2013, 14, 4069-4073.	1.0	37