

# Xiao-Wei Tong

## List of Publications by Year in descending order

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22  
papers

1,358  
citations

623188

14  
h-index

676716

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g-index

22  
all docs

22  
docs citations

22  
times ranked

2025  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Solar-Blind Deep-Ultraviolet Photodetectors Based on Inorganic Ultrawide Bandgap Semiconductors. <i>Advanced Functional Materials</i> , 2019, 29, 1806006.	7.8	334
2	Sensitive Deep Ultraviolet Photodetector and Image Sensor Composed of Inorganic Lead-Free Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskite with Wide Bandgap. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5343-5350.	2.1	171
3	Ultrafast, Self-Driven, and Air-Stable Photodetectors Based on Multilayer PtSe <sub>2</sub> /Perovskite Heterojunctions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1185-1194.	2.1	159
4	High-Performance Red-Light Photodetector Based on Lead-Free Bismuth Halide Perovskite Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18977-18985.	4.0	128
5	Recent advances in the fabrication of graphene-ZnO heterojunctions for optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3815-3833.	2.7	85
6	Catalyst-Free Vapor-Solid Deposition Growth of Ga <sub>2</sub> O <sub>3</sub> Nanowires for DUV Photodetector and Image Sensor Application. <i>Advanced Optical Materials</i> , 2019, 7, 1901257.	3.6	62
7	Silicon/Perovskite Core-Shell Heterojunctions with Light-Trapping Effect for Sensitive Self-Driven Near-Infrared Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27850-27857.	4.0	55
8	Inorganic CsBi <sub>3</sub> I <sub>10</sub> perovskite/silicon heterojunctions for sensitive, self-driven and air-stable NIR photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 863-870.	2.7	50
9	Direct Tellurization of Pt to Synthesize 2D PtTe <sub>2</sub> for High-Performance Broadband Photodetectors and NIR Image Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53921-53931.	4.0	48
10	Self-Template Synthesis of Ag-Pt Hollow Nanospheres as Electrocatalyst for Methanol Oxidation Reaction. <i>Langmuir</i> , 2017, 33, 5991-5997.	1.6	44
11	Platinum-silver alloyed octahedral nanocrystals as electrocatalyst for methanol oxidation reaction. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 251-257.	5.0	40
12	A Highly Sensitive Perovskite/Organic Semiconductor Heterojunction Phototransistor and Its Device Optimization Utilizing the Selective Electron Trapping Effect. <i>Advanced Optical Materials</i> , 2019, 7, 1900272.	3.6	35
13	A Sensitive Broadband (UV-vis-NIR) Perovskite Photodetector Using Topological Insulator as Electrodes. <i>Advanced Optical Materials</i> , 2019, 7, 1801392.	3.6	28
14	Leaky Mode Resonance-Induced Sensitive Ultraviolet Photodetector Composed of Graphene/Small Diameter Silicon Nanowire Array Heterojunctions. <i>ACS Nano</i> , 2021, 15, 16729-16737.	7.3	26
15	Sensitive Photodetector Arrays Based on Patterned CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Single Crystal Microplate for Image Sensing Application. <i>Advanced Optical Materials</i> , 2021, 9, 2100371.	3.6	14
16	Electrically adjusted deep-ultraviolet/near-infrared single-band/dual-band imaging photodetectors based on Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> /PdTe <sub>2</sub> /Ge multiheterostructures. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14897-14907.	2.7	14
17	Detection of wavelength in the range from ultraviolet to near infrared light using two parallel PtSe <sub>2</sub> /thin Si Schottky junctions. <i>Materials Horizons</i> , 2021, 8, 1976-1984.	6.4	13
18	Enhancing the device performance of SiNP array/PtTe <sub>2</sub> heterojunction photodetector by the light trapping effect. <i>Sensors and Actuators A: Physical</i> , 2021, 322, 112625.	2.0	12

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19	Synthesis of a hierarchical cobalt sulfide/cobalt basic salt nanocomposite via a vapor-phase hydrothermal method as an electrode material for supercapacitor. <i>New Journal of Chemistry</i> , 2017, 41, 12147-12152.	1.4	11
20	High-Performance Photocoupler Based on Perovskite Light Emitting Diode and Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39441-39447.	4.0	11
21	Mesoporous anodic $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> interferometer for organic vapor sensing application. <i>RSC Advances</i> , 2018, 8, 31121-31128.	1.7	10
22	Ultrawide-Bandgap Semiconductors: Recent Progress in Solar-Blind Deep-Ultraviolet Photodetectors Based on Inorganic Ultrawide Bandgap Semiconductors ( <i>Adv. Funct. Mater.</i> 9/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970057.	7.8	8