

# Rui Wang

## List of Publications by Year in descending order

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22  
papers

734  
citations

687363

13  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress on AlGaIn-based solar-blind ultraviolet photodetectors and focal plane arrays. <i>Light: Science and Applications</i> , 2021, 10, 94.	16.6	193
2	Tailoring activation sites of metastable distorted 1T $\epsilon$ -phase MoS <sub>2</sub> by Ni doping for enhanced hydrogen evolution. <i>Nano Research</i> , 2022, 15, 5946-5952.	10.4	80
3	Ultra-small 2D PbS Nanoplatelets: Liquid-Phase Exfoliation and Emerging Applications for Photoelectrochemical Photodetectors. <i>Small</i> , 2021, 17, e2005913.	10.0	50
4	Hydrogen gas sensor based on SnO <sub>2</sub> nanospheres modified with Sb <sub>2</sub> O <sub>3</sub> prepared by one-step solvothermal route. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129441.	7.8	48
5	Facile synthesis of mesoporous CdS/PbS/SnO <sub>2</sub> composites for high-selectivity H <sub>2</sub> gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129924.	7.8	48
6	A Reusable and High Sensitivity Nitrogen Dioxide Sensor Based on Monolayer SnSe. <i>IEEE Electron Device Letters</i> , 2018, 39, 599-602.	3.9	43
7	Performance of Monolayer Blue Phosphorene Double-Gate MOSFETs from the First Principles. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20956-20964.	8.0	39
8	Do all screw dislocations cause leakage in GaN-based devices?. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	38
9	PbSe Nanocrystals Produced by Facile Liquid Phase Exfoliation for Efficient UV-Vis Photodetectors. <i>Advanced Functional Materials</i> , 2021, 31, 2010401.	14.9	35
10	Nanoplasmonically Enhanced High-Performance Metastable Phase $\epsilon$ -Ga <sub>2</sub> O <sub>3</sub> Solar-Blind Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40283-40289.	8.0	31
11	An ultra-sensitive and selective nitrogen dioxide sensor based on a novel P <sub>2</sub> C <sub>2</sub> monolayer from a theoretical perspective. <i>Nanoscale</i> , 2018, 10, 21936-21943.	5.6	28
12	Achieving Record High External Quantum Efficiency >86.7% in Solar-Blind Photoelectrochemical Photodetection. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	23
13	$\epsilon$ -Ga <sub>2</sub> O <sub>3</sub> : A Promising Candidate for High-Electron-Mobility Transistors. <i>IEEE Electron Device Letters</i> , 2020, , 1-1.	3.9	15
14	Janus Ga <sub>2</sub> SeTe: A Promising Candidate for Highly Efficient Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900321.	5.8	13
15	Precise Extraction of Dynamic <i>R</i> <sub>son</sub> Under High Frequency and High Voltage by a Double-Diode-Isolation Method. <i>IEEE Journal of the Electron Devices Society</i> , 2019, 7, 690-695.	2.1	10
16	Performance Modulation for Back-Illuminated AlGaIn Ultraviolet Avalanche Photodiodes Based on Multiplication Scaling. <i>IEEE Photonics Journal</i> , 2019, 11, 1-7.	2.0	10
17	High-performance sub-10Ånm monolayer black arsenic phosphorus tunneling transistors. <i>Applied Surface Science</i> , 2022, 576, 151705.	6.1	9
18	High-performance normally off p-GaN gate high-electron-mobility transistor with In <sub>0.17</sub> Al <sub>0.83</sub> N barrier layer design. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	7

#	ARTICLE	IF	CITATIONS
19	Investigation on the Activation Energy of Device Degradation and Switching Time in AlGaIn/GaN HEMTs for High-Frequency Application. IEEE Journal of the Electron Devices Society, 2019, 7, 417-424.	2.1	5
20	Electronic properties of arsenene nanoribbons for FET application. Optical and Quantum Electronics, 2020, 52, 1.	3.3	3
21	Direct observation of reach-through behavior in back-illuminated algan avalanche photodiode with separate absorption and multiplication structure. Journal Physics D: Applied Physics, 2020, 53, 425101.	2.8	3
22	Charge induced reconstruction of glide partial dislocations and electronic properties in GaN. Scripta Materialia, 2022, 207, 114276.	5.2	3