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## List of Publications by Year in descending order

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29  
papers

1,125  
citations

430874

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477307

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docs citations

29  
times ranked

1345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer MoS <sub>2</sub> /GaAs heterostructure self-driven photodetector with extremely high detectivity. Nano Energy, 2016, 23, 89-96.	16.0	138
2	A High Current Density Direct-Current Generator Based on a Moving van der Waals Schottky Diode. Advanced Materials, 2019, 31, e1804398.	21.0	109
3	High performance graphene/semiconductor van der Waals heterostructure optoelectronic devices. Nano Energy, 2017, 40, 122-148.	16.0	96
4	Enhanced performance of a graphene/GaAs self-driven near-infrared photodetector with upconversion nanoparticles. Nanoscale, 2018, 10, 8023-8030.	5.6	84
5	Broadband surface plasmon resonance enhanced self-powered graphene/GaAs photodetector with ultrahigh detectivity. Nano Energy, 2018, 47, 140-149.	16.0	82
6	Co-harvesting Light and Mechanical Energy Based on Dynamic Metal/Perovskite Schottky Junction. Matter, 2019, 1, 639-649.	10.0	77
7	The Interaction between Quantum Dots and Graphene: The Applications in Graphene-Based Solar Cells and Photodetectors. Advanced Functional Materials, 2018, 28, 1804712.	14.9	69
8	Direct-Current Generator Based on Dynamic PN Junctions with the Designed Voltage Output. IScience, 2019, 22, 58-69.	4.1	68
9	Surface States Enhanced Dynamic Schottky Diode Generator with Extremely High Power Density Over 1000 W m <sup>-2</sup> . Advanced Science, 2019, 6, 1901925.	11.2	50
10	ZnO quantum dot-doped graphene/h-BN/GaN-heterostructure ultraviolet photodetector with extremely high responsivity. Nanotechnology, 2016, 27, 48LT03.	2.6	43
11	Tunable Dynamic Black Phosphorus/Insulator/Si Heterojunction Direct-Current Generator Based on the Hot Electron Transport. Research, 2019, 2019, 5832382.	5.7	35
12	Quasi-industrially produced large-area microscale graphene flakes assembled film with extremely high thermoelectric power factor. Nano Energy, 2019, 58, 63-68.	16.0	30
13	Surface plasmon enhanced graphene/p-GaN heterostructure light-emitting-diode by Ag nano-particles. Nano Energy, 2016, 30, 362-367.	16.0	28
14	Enhanced monolayer MoS <sub>2</sub> /InP heterostructure solar cells by graphene quantum dots. Applied Physics Letters, 2016, 108, 163901.	3.3	26
15	Polarized Water Driven Dynamic PN Junction-Based Direct-Current Generator. Research, 2021, 2021, 7505638.	5.7	26
16	Interfacial Built-In Electric Field-Driven Direct Current Generator Based on Dynamic Silicon Homojunction. Research, 2020, 2020, 5714754.	5.7	24
17	Graphene/p-AlGaIn/p-GaN electron tunnelling light emitting diodes with high external quantum efficiency. Nano Energy, 2019, 60, 836-840.	16.0	20
18	Direct Current Electricity Generation from Dynamic Polarized Water-Semiconductor Interface. Journal of Physical Chemistry C, 2021, 125, 14180-14187.	3.1	20

#	ARTICLE	IF	CITATIONS
19	Dynamic Schottky Diode Direct-Current Generator under Extremely Low Temperature. <i>Advanced Functional Materials</i> , 2021, 31, 2105325.	14.9	19
20	Dynamics and physical process of hot carriers in optoelectronic devices. <i>Nano Energy</i> , 2022, 95, 106977.	16.0	16
21	Wind driven semiconductor electricity generator with high direct current output based on a dynamic Schottky junction. <i>RSC Advances</i> , 2021, 11, 19106-19112.	3.6	12
22	Multi-type quantum dots photo-induced doping enhanced graphene/semiconductor solar cell. <i>RSC Advances</i> , 2017, 7, 33413-33418.	3.6	11
23	Graphene/Semiconductor Heterostructure Wireless Energy Harvester through Hot Electron Excitation. <i>Research</i> , 2020, 2020, 3850389.	5.7	11
24	Gate tunable surface plasmon resonance enhanced graphene/Ag nanoparticles-polymethyl methacrylate/graphene/p-GaN heterostructure light-emitting diodes. <i>Optics Express</i> , 2018, 26, 25257.	3.4	9
25	Hot carriers assisted mixed-dimensional graphene/MoS <sub>2</sub> /p-GaN light emitting diode. <i>Carbon</i> , 2022, 197, 192-199.	10.3	9
26	Hot Carrier Transport and Carrier Multiplication Induced High Performance Vertical Graphene/Silicon Dynamic Diode Generator. <i>Advanced Science</i> , 2022, 9, .	11.2	8
27	Van der Waals contacted MoO <sub>x</sub> staked ZnO/GaN vertical heterostructured ultraviolet light emitting diodes. <i>Optics Express</i> , 2020, 28, 31603.	3.4	3
28	High-Performance Graphene/GaN Solar Cell Prepared by Interfacial Chemical Modification with Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate). <i>Energy Technology</i> , 2021, 9, 2100122.	3.8	1
29	Van der Waals Integrated Silicon/Graphene/AlGaN Based Vertical Heterostructured Hot Electron Light Emitting Diodes. <i>Nanomaterials</i> , 2020, 10, 2568.	4.1	1