

Ruomeng Yu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

3,818
citations

32
h-index

35
g-index

35
ext. papers

4,295
ext. citations

18.5
avg, IF

5.45
L-index

#	Paper	IF	Citations
35	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. <i>Nature Communications</i> , 2018 , 9, 244	17.4	710
34	High-resolution electroluminescent imaging of pressure distribution using a piezoelectric nanowire LED array. <i>Nature Photonics</i> , 2013 , 7, 752-758	33.9	534
33	Light-induced pyroelectric effect as an effective approach for ultrafast ultraviolet nanosensing. <i>Nature Communications</i> , 2015 , 6, 8401	17.4	180
32	Flexible, Stretchable and Wearable Multifunctional Sensor Array as Artificial Electronic Skin for Static and Dynamic Strain Mapping. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500142	6.4	177
31	Flexible and Controllable Piezo-Phototronic Pressure Mapping Sensor Matrix by ZnO NW/p-Polymer LED Array. <i>Advanced Functional Materials</i> , 2015 , 25, 2884-2891	15.6	171
30	Enhanced Performance of a ZnO Nanowire-Based Self-Powered Glucose Sensor by Piezotronic Effect. <i>Advanced Functional Materials</i> , 2013 , 23, 5868-5874	15.6	150
29	Piezophototronic Effect in Single-Atomic-Layer MoS for Strain-Gated Flexible Optoelectronics. <i>Advanced Materials</i> , 2016 , 28, 8463-8468	24	149
28	Ultrafast Response p-Si/n-ZnO Heterojunction Ultraviolet Detector Based on Pyro-Phototronic Effect. <i>Advanced Materials</i> , 2016 , 28, 6880-6	24	121
27	Enhanced Performance of a Self-Powered Organic/Inorganic Photodetector by Pyro-Phototronic and Piezo-Phototronic Effects. <i>Advanced Materials</i> , 2017 , 29, 1606698	24	107
26	Piezotronic effect on the transport properties of GaN nanobelts for active flexible electronics. <i>Advanced Materials</i> , 2012 , 24, 3532-7	24	103
25	High performance of ZnO nanowire protein sensors enhanced by the piezotronic effect. <i>Energy and Environmental Science</i> , 2013 , 6, 494	35.4	99
24	Progress in Piezo-Phototronic-Effect-Enhanced Light-Emitting Diodes and Pressure Imaging. <i>Advanced Materials</i> , 2016 , 28, 1535-52	24	93
23	Piezo-Phototronic Enhanced UV Sensing Based on a Nanowire Photodetector Array. <i>Advanced Materials</i> , 2015 , 27, 7963-9	24	90
22	Piezotronic effect on the sensitivity and signal level of Schottky contacted proactive micro/nanowire nanosensors. <i>ACS Nano</i> , 2013 , 7, 1803-10	16.7	89
21	Self-Powered Triboelectric Nanosensor for Microfluidics and Cavity-Confined Solution Chemistry. <i>ACS Nano</i> , 2015 , 9, 11056-63	16.7	86
20	Piezotronic Effect Modulated Heterojunction Electron Gas in AlGa _n /AlN/GaN Heterostructure Microwire. <i>Advanced Materials</i> , 2016 , 28, 7234-42	24	83
19	A Streaming Potential/Current-Based Microfluidic Direct Current Generator for Self-Powered Nanosystems. <i>Advanced Materials</i> , 2015 , 27, 6482-7	24	71

18	Piezotronic effect enhanced Schottky-contact ZnO micro/nanowire humidity sensors. <i>Nano Research</i> , 2014 , 7, 1083-1091	10	70
17	GaN nanobelt-based strain-gated piezotronic logic devices and computation. <i>ACS Nano</i> , 2013 , 7, 6403-9	16.7	68
16	Enhancing Light Emission of ZnO-Nanofilm/Si-Micropillar Heterostructure Arrays by Piezo-Phototronic Effect. <i>Advanced Materials</i> , 2015 , 27, 4447-4453	24	65
15	Piezo-Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Vis-NIR Broadband Photodiode. <i>Advanced Materials</i> , 2017 , 29, 1701412	24	62
14	Temperature dependence of pyro-phototronic effect on self-powered ZnO/perovskite heterostructured photodetectors. <i>Nano Research</i> , 2016 , 9, 3695-3704	10	60
13	Piezotronic effect enhanced performance of Schottky-contacted optical, gas, chemical and biological nanosensors. <i>Nano Energy</i> , 2015 , 14, 312-339	17.1	58
12	Temperature Dependence of the Piezotronic and Piezophototronic Effects in a-axis GaN Nanobelts. <i>Advanced Materials</i> , 2015 , 27, 8067-74	24	51
11	Largely Improved Near-Infrared Silicon-Photosensing by the Piezo-Phototronic Effect. <i>ACS Nano</i> , 2017 , 11, 7118-7125	16.7	46
10	Simultaneously Enhancing Light Emission and Suppressing Efficiency Droop in GaN Microwire-Based Ultraviolet Light-Emitting Diode by the Piezo-Phototronic Effect. <i>Nano Letters</i> , 2017 , 17, 3718-3724	11.5	44
9	Piezo-phototronic Boolean logic and computation using photon and strain dual-gated nanowire transistors. <i>Advanced Materials</i> , 2015 , 27, 940-7	24	44
8	CoS NWs/Au Hybridized Networks as Efficient Counter Electrodes for Flexible Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015 , 5, 1500141	21.8	42
7	Highly flexible, conductive and catalytic Pt networks as transparent counter electrodes for wearable dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23028-23034	13	39
6	Enhanced performance of GaN nanobelt-based photodetectors by means of piezotronic effects. <i>Nano Research</i> , 2013 , 6, 758-766	10	39
5	Temperature Dependence of the Piezophototronic Effect in CdS Nanowires. <i>Advanced Functional Materials</i> , 2015 , 25, 5277-5284	15.6	37
4	Piezotronic Effect in Strain-Gated Transistor of a-Axis GaN Nanobelt. <i>ACS Nano</i> , 2015 , 9, 9822-9	16.7	36
3	Theoretical Study of Triboelectric-Potential Gated/Driven Metal-Oxide-Semiconductor Field-Effect Transistor. <i>ACS Nano</i> , 2016 , 10, 4395-402	16.7	29
2	A Bamboo-Like GaN Microwire-Based Piezotronic Memristor. <i>Advanced Functional Materials</i> , 2016 , 26, 5307-5314	15.6	15
1	Functional Devices for Clean Energy and Advanced Sensor Applications. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-2	3.2	

