

Yaping Dan

List of Publications by Year in Descending Order

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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.

62 papers	2,424 citations	18 h-index	49 g-index
73 ext. papers	2,730 ext. citations	6.8 avg, IF	4.94 L-index

#	Paper	IF	Citations
62	Rich device physics found in photoresponses of low-dimensional photodetectors by fitting with explicit photogain theory. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	
61	Fluorescence optimization and ratiometric thermometry of near-infrared emission in erbium/oxygen-doped crystalline silicon. <i>Journal of Luminescence</i> , 2022 , 119035	3.8	1
60	Analytical Transient Responses and Gain-Bandwidth Products of Low-Dimensional High-Gain Photodetectors. <i>ACS Nano</i> , 2021 ,	16.7	2
59	Stimulated emission at 154 nm from erbium/oxygen-doped silicon-based light-emitting diodes. <i>Photonics Research</i> , 2021 , 9, 714	6	5
58	Efficient Er/O Doped Silicon Photodiodes at Communication Wavelengths by Deep Cooling. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100137	6.8	2
57	Explicit Gain Equations for Hybrid Graphene-Quantum-Dot Photodetectors. <i>Small</i> , 2021 , 17, e2006307	11	5
56	Advances in ultrashallow doping of silicon. <i>Advances in Physics: X</i> , 2021 , 6, 1871407	5.1	1
55	Towards Fabrication of Atomic Dopant Wires via Monolayer Doping Patterned by Resist-Free Lithography. <i>Chinese Physics Letters</i> , 2021 , 38, 028101	1.8	0
54	Full Activation of Dopants by Carbon-free Self-Assembled Molecular Monolayer Doping. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3346-3351	4	2
53	Extended infrared responses in Er/O-hyperdoped Si at room temperature. <i>Optics Letters</i> , 2021 , 46, 5165-5168	5.168	1
52	Explicit Gain Equations for Single Crystalline Photoconductors. <i>ACS Nano</i> , 2020 , 14, 3405-3413	16.7	10
51	Silicon nanowire core-shell PN junction phototransistors by self-assembled monolayer doping. <i>Nanotechnology</i> , 2020 , 31, 195201	3.4	3
50	Thermal pyrolysis investigation of self-assembled molecular monolayer for defect-free doping in silicon. <i>Chemical Physics</i> , 2020 , 531, 110658	2.3	4
49	Toward Scalable Fabrication of Atomic Wires in Silicon by Nanopatterning Self-Assembled Molecular Monolayers. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 275-281	4	2
48	Full Activation of Boron in Silicon Doped by Self-Assembled Molecular Monolayers. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 268-274	4	12
47	Efficient Er/O-Doped Silicon Light-Emitting Diodes at Communication Wavelength by Deep Cooling. <i>Advanced Optical Materials</i> , 2020 , 8, 2000720	8.1	11
46	Planar metalenses in the mid-infrared. <i>AIP Advances</i> , 2019 , 9, 085327	1.5	9

45 Characterization Techniques **2019**, 95-126

44	Single silicon nanowires as inherent heaters and thermometers for thermal conductivity measurements. <i>AIP Advances</i> , 2019 , 9, 015107	1.5	4
43	Density of defect states retrieved from the hysteretic gate transfer characteristics of monolayer MoS ₂ field effect transistors. <i>AIP Advances</i> , 2019 , 9, 015230	1.5	5
42	Toward Defect-Free Doping by Self-Assembled Molecular Monolayers: The Evolution of Interstitial Carbon-Related Defects in Phosphorus-Doped Silicon. <i>ACS Omega</i> , 2019 , 4, 3539-3545	3.9	6
41	Review of nanostructure color filters. <i>Journal of Nanophotonics</i> , 2019 , 13, 1	1.1	11
40	Plasmonic micropipe spectral filters in mid-infrared. <i>Optics Letters</i> , 2019 , 44, 4479-4482	3	5
39	Dopant activation and photoresponses of boron-doped silicon by self-assembled molecular monolayers. <i>AIP Advances</i> , 2019 , 9, 125219	1.5	6
38	Probing the dopant profile in nanoscale devices by low temperature electrostatic force microscopy. <i>AIP Advances</i> , 2019 , 9, 125212	1.5	0
37	Deep level transient spectroscopic investigation of phosphorus-doped silicon by self-assembled molecular monolayers. <i>Nature Communications</i> , 2018 , 9, 118	17.4	23
36	Dynamics of Charge Carriers in Silicon Nanowire Photoconductors Revealed by Photo Hall Effect Measurements. <i>ACS Nano</i> , 2018 , 12, 3436-3441	16.7	12
35	Mid-infrared plasmonic multispectral filters. <i>Scientific Reports</i> , 2018 , 8, 11257	4.9	32
34	A Photoconductor Intrinsically Has No Gain. <i>ACS Photonics</i> , 2018 , 5, 4111-4116	6.3	37
33	Designing an Efficient Multimode Environmental Sensor Based on Graphene/Silicon Heterojunction. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600262	6.8	38
32	Controlled doping by self-assembled dendrimer-like macromolecules. <i>Scientific Reports</i> , 2017 , 7, 41299	4.9	17
31	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	144
30	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
29	A Broadband Fluorographene Photodetector. <i>Advanced Materials</i> , 2017 , 29, 1700463	24	72
28	A silicon nanowire heater and thermometer. <i>Applied Physics Letters</i> , 2017 , 111, 043504	3.4	6

27	Phosphorus ionization in silicon doped by self-assembled macromolecular monolayers. <i>AIP Advances</i> , 2017 , 7, 105310	1.5	6
26	Si nanowires for evolutionary nanotechnology 2017 , 515-536		
25	Si nanowires for evolutionary nanotechnology. <i>Series in Materials Science and Engineering</i> , 2017 , 515-536		
24	Cryogenically probing the surface trap states of single nanowires passivated with self-assembled molecular monolayers. <i>Nanoscale</i> , 2017 , 10, 82-86	7.7	7
23	High-performance silicon nanowire bipolar phototransistors. <i>Applied Physics Letters</i> , 2016 , 109, 033505	3.4	14
22	Si nanowire phototransistors at telecommunication wavelengths by plasmon-enhanced two-photon absorption. <i>Optics Express</i> , 2016 , 24, 4601-4609	3.3	3
21	Uncovering the density of nanowire surface trap states hidden in the transient photoconductance. <i>Nanoscale</i> , 2016 , 8, 15934-8	7.7	9
20	Optoelectronically probing the density of nanowire surface trap states to the single state limit. <i>Applied Physics Letters</i> , 2015 , 106, 053117	3.4	15
19	Self-aligned process for forming microlenses at the tips of vertical silicon nanowires by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 01A109	2.9	3
18	Nanoscale Nitrogen Doping in Silicon by Self-Assembled Monolayers. <i>Scientific Reports</i> , 2015 , 5, 12641	4.9	31
17	Filter-free image sensor pixels comprising silicon nanowires with selective color absorption. <i>Nano Letters</i> , 2014 , 14, 1804-9	11.5	161
16	Effect of thermal treatment on conductometric response of hydrogen gas sensors integrated with HCl-doped polyaniline nanofibers. <i>Materials Chemistry and Physics</i> , 2014 , 144, 155-161	4.4	19
15	High-sensitivity silicon nanowire phototransistors 2014 ,		2
14	Silicon photodetectors integrated with vertical silicon nitride waveguides as image sensor pixels: Fabrication and characterization. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 031201	1.3	3
13	Vertical Silicon Nanowire Photodetectors: Spectral Sensitivity via Nanowire Radius 2013 ,		2
12	Vertical waveguides integrated with silicon photodetectors: Towards high efficiency and low cross-talk image sensors. <i>Applied Physics Letters</i> , 2012 , 100, 043504	3.4	1
11	Dramatic reduction of surface recombination by in situ surface passivation of silicon nanowires. <i>Nano Letters</i> , 2011 , 11, 2527-32	11.5	211
10	Multicolored vertical silicon nanowires. <i>Nano Letters</i> , 2011 , 11, 1851-6	11.5	294

9	Size-selective nanoparticle growth on few-layer graphene films. <i>Nano Letters</i> , 2010 , 10, 777-81	11.5	129
8	Intrinsic response of graphene vapor sensors. <i>Nano Letters</i> , 2009 , 9, 1472-5	11.5	803
7	Gas sensing properties of single conducting polymer nanowires and the effect of temperature. <i>Nanotechnology</i> , 2009 , 20, 434014	3.4	39
6	Electrodeposition of Three-Dimensional Titania Photonic Crystals from Holographically Patterned Microporous Polymer Templates. <i>Chemistry of Materials</i> , 2008 , 20, 1816-1823	9.6	64
5	Triply Periodic Bicontinuous Structures as Templates for Photonic Crystals: A Pinch-off Problem. <i>Advanced Materials</i> , 2007 , 19, 1510-1514	24	33
4	Dielectrophoretically assembled polymer nanowires for gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 55-59	8.5	65
3	Effect of Thermal Treatments on the Transduction Behaviors of Conductometric Hydrogen Gas Sensors Integrated with HCl-Doped Polyaniline Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1042, 1		
2	Dielectrophoretic integration of nanodevices with CMOS VLSI circuitry. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 101-109	2.6	20
1	Microstructure of oxygen-rich silicon oxynitride 2001 , 4603, 192		