Xin Yan

List of Publications by Year
in descending order

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72	883	516710 16	580821 25
papers	citations	h-index	g-index

72	72	72	1003
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Reflection of GaAs Nanowire Laser Using Short-Period, Symmetric Double Metal Grating Reflectors. Nanomaterials, 2022, 12, 1482.	4.1	0
2	Analysis of Terahertz Wave on Increasing Radar Cross Section of 3D Conductive Model. Electronics (Switzerland), 2021, 10, 74.	3.1	7
3	A Blockchain-Based Trusted Edge Platform in Edge Computing Environment. Sensors, 2021, 21, 2126.	3.8	19
4	Switchable and Dual-Tunable Multilayered Terahertz Absorber Based on Patterned Graphene and Vanadium Dioxide. Micromachines, 2021, 12, 619.	2.9	8
5	Single-Photon Emission by the Plasmon-Induced Transparency Effect in Coupled Plasmonic Resonators. Photonics, 2021, 8, 188.	2.0	0
6	Plasmon-enhanced photoresponse of deep-subwavelength GaAs NW photodetector. Optoelectronics Letters, 2021, 17, 385-389.	0.8	0
7	An artificial optoelectronic synapse based on an InAs nanowire phototransistor with negative photoresponse. Optical and Quantum Electronics, 2021, 53, 1.	3.3	5
8	Dual-Frequency Polarized Reconfigurable Terahertz Antenna Based on Graphene Metasurface and TOPAS. Micromachines, 2021, 12, 1088.	2.9	16
9	A Hybrid Model for Central Bank Digital Currency Based on Blockchain. IEEE Access, 2021, 9, 53589-53601.	4.2	35
10	Enhancement of single-photon emission rate by plasmon induced transparency in metal-insulator-metal waveguides. , 2021, , .		0
11	High-Performance Laterally Oriented Nanowire Solar Cells with Ag Gratings. Nanomaterials, 2021, 11, 2807.	4.1	4
12	Study on Secure Communication of Internet of Vehicles Based on Identity-Based Cryptograph. , 2021, , .		1
13	A dual-tunable ultra-broadband terahertz absorber based on graphene and strontium titanate. Results in Physics, 2021, 31, 105039.	4.1	14
14	A Low-Threshold Miniaturized Plasmonic Nanowire Laser with High-Reflectivity Metal Mirrors. Nanomaterials, 2020, 10, 1928.	4.1	5
15	Dual-Tunable Broadband Terahertz Absorber Based on a Hybrid Graphene-Dirac Semimetal Structure. Micromachines, 2020, 11, 1096.	2.9	7
16	Design and Simulation of Low-Threshold Miniaturized Single-Mode Nanowire Lasers Combined with a Photonic Crystal Microcavity and Asymmetric Distributed-Bragg-Reflector Mirrors. Nanomaterials, 2020, 10, 2344.	4.1	3
17	Absorption-Enhanced Ultra-Thin Solar Cells Based on Horizontally Aligned pâ€“iâ€“n Nanowire Arrays. Nanomaterials, 2020, 10, 1111.	4.1	15
18	Study of nanometer-scale structures and electrostatic properties of InAs quantum dots decorating GaAs/AlAs core/shell nanowires. Nanotechnology, 2020, 31, 245701.	2.6	2

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19	Miniaturized GaAs Nanowire Laser with a Metal Grating Reflector. Nanomaterials, 2020, 10, 680.	4.1	5
20	Performance Enhancement of Ultra-Thin Nanowire Array Solar Cells by Bottom Reflectivity Engineering. Nanomaterials, 2020, 10, 184.	4.1	9
21	A grapheneâ€based tunable miniaturizedâ€element frequency selective surface in terahertz band and its application in highâ€isolation multipleâ€input multipleâ€output system. Microwave and Optical Technology Letters, 2019, 61, 2789-2794.	1.4	8
22	A grapheneâ€based tunable negative refractive index metamaterial and its application in dynamic beamâ€tilting terahertz antenna. Microwave and Optical Technology Letters, 2019, 61, 2766-2772.	1.4	18
23	Plasmon-Induced Transparency in an Asymmetric Bowtie Structure. Nanoscale Research Letters, 2019, 14, 246.	5.7	12
24	Study of Charge Distributions and Electrical Properties in GaAs/AlGaAs Single Quantum Well/Nanowire Heterostructures. Journal of Physical Chemistry C, 2019, 123, 26888-26894.	3.1	5
25	Enhanced performance of graphene/GaAs nanowire photoelectric conversion devices by improving the Schottky barrier height. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 051202.	1.2	6
26	Study of the Polarization Effect in InAs Quantum Dots/GaAs Nanowires. Journal of Physical Chemistry C, 2019, 123, 4228-4234.	3.1	6
27	Enhancement of Single-Photon Emission Rate from InGaAs/GaAs Quantum-Dot/Nanowire Heterostructure by Wire-Groove Nanocavity. Nanomaterials, 2019, 9, 671.	4.1	8
28	A Fast Point Cloud Segmentation Algorithm Based on Region Growth. , 2019, , .		12
29	A graphene/single GaAs nanowire Schottky junction photovoltaic device. Nanoscale, 2018, 10, 9212-9217.	5.6	63
30	Photovoltaic Performance of a Nanowire/Quantum Dot Hybrid Nanostructure Array Solar Cell. Nanoscale Research Letters, 2018, 13, 62.	5.7	9
31	A Multi-Diameter GaAs Nano wire Array Solar Cell with Axial p-i-n Junctions. , 2018, , .		0
32	Contrallable Synaptic Behavior in Photonic Neuromorphic Transistor. , 2018, , .		1
33	Enhanced efficiency of graphene/GaAs nanowire solar cell by chemical doping. , 2018, , .		0
34	A room-temperature near-infrared nanowire/quantum-well laser. , 2018, , .		0
35	A high-responsivity subwavelength GaAs nanowire photodetector with a dipole antenna. , 2018, , .		2
36	Photovoltaic Performance of Pin Junction Nanocone Array Solar Cells with Enhanced Effective Optical Absorption. Nanoscale Research Letters, 2018, 13, 306.	5.7	22

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37	Enhanced photovoltaic performance of nanowire array solar cells with multiple diameters. Optics Express, 2018, 26, A974.	3.4	9
38	Grapheneâ€based dualâ€band antenna in the millimeterâ€wave band. Microwave and Optical Technology Letters, 2018, 60, 3014-3019.	1.4	10
39	Modulating photoelectric performance of graphene/gallium arsenide nanowire photodetectors by applying gate voltage. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	1.2	5
40	Optimization of GaAs Nanowire Pin Junction Array Solar Cells by Using AlGaAs/GaAs Heterojunctions. Nanoscale Research Letters, 2018, 13, 126.	5.7	13
41	Channel Plasmon Nanowire Lasers with V-Groove Cavities. Nanoscale Research Letters, 2018, 13, 227.	5.7	2
42	A High-Efficiency Si Nanowire Array/Perovskite Hybrid Solar Cell. Nanoscale Research Letters, 2017, 12, 14.	5.7	12
43	Low-threshold room-temperature AlGaAs/GaAs nanowire/single-quantum-well heterostructure laser. Applied Physics Letters, 2017, 110, .	3.3	13
44	Self-catalyzed Growth of InAs Nanowires on InP Substrate. Nanoscale Research Letters, 2017, 12, 34.	5.7	12
45	Controllable photoresponse behavior in a single InAs nanowire phototransistor. Applied Physics Letters, 2017, 111, .	3.3	15
46	Analysis of dark current considering trap-assisted tunneling mechanism for InGaAs PIN photodetectors. Optical and Quantum Electronics, 2017, 49, 1.	3.3	5
47	Near-infrared hybrid plasmonic multiple quantum well nanowire lasers. Optics Express, 2017, 25, 9358.	3.4	12
48	Fabrication and optical properties of typeâ€II InP/InAs nanowire/quantumâ€dot heterostructures. Physica Status Solidi - Rapid Research Letters, 2016, 10, 168-171.	2.4	2
49	A single crystalline InP nanowire photodetector. Applied Physics Letters, 2016, 109, .	3.3	38
50	A monolayer graphene/GaAs nanowire array Schottky junction self-powered photodetector. Applied Physics Letters, 2016, 109, .	3.3	57
51	Ultrahigh Purcell factor in low-threshold nanolaser based on asymmetric hybrid plasmonic cavity. Scientific Reports, 2016, 6, 33063.	3.3	12
52	Self-catalyzed growth of pure zinc blende âŸ¨110âŸ© InP nanowires. Applied Physics Letters, 2015, 107, .	3.3	16
53	Anomalous photoconductive behavior of a single InAs nanowire photodetector. Applied Physics Letters, 2015, 107, .	3.3	22
54	Extremely Low-Threshold Current Density InGaAs/AlGaAs Quantum-Well Lasers on Silicon. Journal of Lightwave Technology, 2015, 33, 3163-3169.	4.6	25

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55	Enhanced photovoltaic performance of an inclined nanowire array solar cell. Optics Express, 2015, 23, A1603.	3.4	27
56	Plasmon-Enhanced Light Absorption in GaAs Nanowire Array Solar Cells. Nanoscale Research Letters, 2015, 10, 436.	5.7	43
57	Fabrication and optical properties of multishell InAs quantum dots on GaAs nanowires. Journal of Applied Physics, 2015, 117, 054301.	2.5	3
58	Axially connected nanowire core-shell p-n junctions: a composite structure for high-efficiency solar cells. Nanoscale Research Letters, 2015, 10, 22.	5.7	15
59	Analysis of Critical Dimensions for Nanowire Core-Multishell Heterostructures. Nanoscale Research Letters, 2015, 10, 389.	5.7	15
60	Observation of enhanced spontaneous and stimulated emission of GaAs/AlGaAs nanowire via the Purcell effect. AIP Advances, 2015, 5, 087148.	1.3	7
61	Fabrication and optical properties of GaAs/InGaAs/GaAs nanowire coreâ€“multishell quantum well heterostructures. Nanoscale, 2015, 7, 1110-1115.	5.6	23
62	Controllable growth and optical properties of InP and InP/InAs nanostructures on the sidewalls of GaAs nanowires. Journal of Applied Physics, 2014, 116, 214304.	2.5	3
63	Broadband second harmonic generation in GaAs nanowires by femtosecond laser sources. Applied Physics Letters, 2013, 103, 143110.	3.3	22
64	Realization of Stranskiâ€“Krastanow InAs quantum dots on nanowire-based InGaAs nanoshells. Journal of Materials Chemistry C, 2013, 1, 7914.	5.5	9
65	Growth and characterization of InAs quantum dots on InP nanowires with zinc blende structure. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	2
66	Morphological and temperature-dependent optical properties of InAs quantum dots on GaAs nanowires with different InAs coverage. Applied Physics Letters, 2013, 103, .	3.3	4
67	Growth and photoluminescence of InxGa1â^'xAs quantum dots on the surface of GaAs nanowires by metal organic chemical vapor deposition. Applied Physics Letters, 2012, 101, .	3.3	23
68	Formation Mechanism and Optical Properties of InAs Quantum Dots on the Surface of GaAs Nanowires. Nano Letters, 2012, 12, 1851-1856.	9.1	36
69	Analysis of critical dimensions for axial double heterostructure nanowires. Journal of Applied Physics, 2012, 112, .	2.5	5
70	Growth of InAs Quantum Dots on GaAs Nanowires by Metal Organic Chemical Vapor Deposition. Nano Letters, 2011, 11, 3941-3945.	9.1	33
71	Growth of Zinc Blende GaAs/AlGaAs Radial Heterostructure Nanowires by a Two-Temperature Process. Chinese Physics Letters, 2011, 28, 036101.	3.3	6
72	Realization of vertical GaAs/InAs nanowire heterostructures on Si substrate. , 2011, , .		0