

Håkan Pettersson

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

669
citations

567281

15
h-index

552781

26
g-index

31
all docs

31
docs citations

31
times ranked

975
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical investigation of carbon paper/ZnO nanocomposite electrodes for capacitive anion capturing. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
2	Gain and bandwidth of InP nanowire array photodetectors with embedded photogated InAsP quantum discs. <i>Nanoscale</i> , 2021, 13, 6227-6233.	5.6	6
3	Synthesis of Vertically Aligned ZnO Nanorods Using Sol-gel Seeding and Colloidal Lithography Patterning. <i>Nanoscale Research Letters</i> , 2021, 16, 46.	5.7	13
4	High sodium ionic conductivity in PEO/PVP solid polymer electrolytes with InAs nanowire fillers. <i>Scientific Reports</i> , 2021, 11, 20180.	3.3	33
5	Template-assisted vapourâ€“liquidâ€“solid growth of InP nanowires on (001) InP and Si substrates. <i>Nanoscale</i> , 2020, 12, 888-894.	5.6	7
6	Electrical transport properties of InAs nanowires synthesized by a solvothermal method. <i>Nanotechnology</i> , 2020, 31, 235709.	2.6	2
7	Embedded sacrificial AlAs segments in GaAs nanowires for substrate reuse. <i>Nanotechnology</i> , 2020, 31, 204002.	2.6	8
8	Evaluation of carrier density and mobility in Mn ion-implanted GaAs:Zn nanowires by Raman spectroscopy. <i>Nanotechnology</i> , 2020, 31, 205705.	2.6	2
9	Raman characterization of single-crystalline Ga _{0.96} Mn _{0.04} As:Zn nanowires realized by ion-implantation. <i>Nanotechnology</i> , 2019, 30, 335202.	2.6	3
10	High Responsivity of InP/InAsP Nanowire Array Broadband Photodetectors Enhanced by Optical Gating. <i>Nano Letters</i> , 2019, 19, 8424-8430.	9.1	13
11	Graphene-based plasmonic nanocomposites for highly enhanced solar-driven photocatalytic activities. <i>RSC Advances</i> , 2019, 9, 30585-30598.	3.6	17
12	Nanowire photodetectors with embedded quantum heterostructures for infrared detection. <i>Infrared Physics and Technology</i> , 2019, 96, 209-212.	2.9	6
13	Intersubband Quantum Disc-in-Nanowire Photodetectors with Normal-Incidence Response in the Long-Wavelength Infrared. <i>Nano Letters</i> , 2018, 18, 365-372.	9.1	34
14	Enhanced broadband absorption in nanowire arrays with integrated Bragg reflectors. <i>Nanophotonics</i> , 2018, 7, 819-825.	6.0	11
15	SWIR-LWIR Photoluminescence from Sb-based Epilayers Grown on GaAs Substrates by using MBE. <i>Journal of the Korean Physical Society</i> , 2018, 73, 1604-1611.	0.7	0
16	Bias-dependent spectral tuning in InP nanowire-based photodetectors. <i>Nanotechnology</i> , 2017, 28, 114006.	2.6	10
17	Room-temperature InP/InAsP Quantum Discs-in-Nanowire Infrared Photodetectors. <i>Nano Letters</i> , 2017, 17, 3356-3362.	9.1	36
18	Optimization of Current Injection in AlGaInP Coreâ€“Shell Nanowire Light-Emitting Diodes. <i>Nano Letters</i> , 2017, 17, 3599-3606.	9.1	15

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19	Considering Symmetry Properties of InP Nanowire/Light Incidence Systems to Gain Broadband Absorption. IEEE Photonics Journal, 2017, 9, 1-10.	2.0	4
20	InP/InAsP Nanowire-Based Spatially Separate Absorption and Multiplication Avalanche Photodetectors. ACS Photonics, 2017, 4, 2693-2698.	6.6	27
21	Enhanced optical absorption in nanowires over a desired range of wavelengths. , 2017, , .		0
22	A Comparative Study of Absorption in Vertically and Laterally Oriented InP Core-Shell Nanowire Photovoltaic Devices. Nano Letters, 2015, 15, 1809-1814.	9.1	57
23	III-V Nanowire Synthesis by Use of Electrodeposited Gold Particles. Nano Letters, 2015, 15, 134-138.	9.1	22
24	Strong Schottky barrier reduction at Au-catalyst/GaAs-nanowire interfaces by electric dipole formation and Fermi-level unpinning. Nature Communications, 2014, 5, 3221.	12.8	54
25	Study of photocurrent generation in InP nanowire-based p-i-n photodetectors. Nano Research, 2014, 7, 544-552.	10.4	37
26	Magnetic Polarons and Large Negative Magnetoresistance in GaAs Nanowires Implanted with Mn Ions. Nano Letters, 2013, 13, 5079-5084.	9.1	26
27	Hopping Conduction in Mn Ion-Implanted GaAs Nanowires. Nano Letters, 2012, 12, 4838-4842.	9.1	39
28	Electrical and optical properties of InP nanowire ensemble p-i-n photodetectors. Nanotechnology, 2012, 23, 135201.	2.6	31
29	A New Route toward Semiconductor Nanospintronics: Highly Mn-Doped GaAs Nanowires Realized by Ion-Implantation under Dynamic Annealing Conditions. Nano Letters, 2011, 11, 3935-3940.	9.1	47
30	Friction Measurements of InAs Nanowires on Silicon Nitride by AFM Manipulation. Small, 2009, 5, 203-207.	10.0	46
31	Shear Stress Measurements on InAs Nanowires by AFM Manipulation. Small, 2007, 3, 1398-1401.	10.0	58