Sichao Du

List of Publications by Year
in descending order

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21 papers	1,069 citations	840776 11 h-index	839539 18 g-index
21 all docs	21 docs citations	21 times ranked	2250 citing authors

#	Article	IF	Citations
1	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and pâ€“n Heterojunctions. ACS Nano, 2016, 10, 4895-4919.	14.6	308
2	Plasmonic Silicon Quantum Dots Enabled High-Sensitivity Ultrabroadband Photodetection of Graphene-Based Hybrid Phototransistors. ACS Nano, 2017, 11, 9854-9862.	14.6	285
3	Broadband optoelectronic synaptic devices based on silicon nanocrystals for neuromorphic computing. Nano Energy, 2018, 52, 422-430.	16.0	150
4	A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463.	21.0	110
5	Bidirectional mid-infrared communications between two identical macroscopic graphene fibres. Nature Communications, 2020, 11, 6368.	12.8	32
6	Quantitative dopant distributions in GaAs nanowires using atom probe tomography. Ultramicroscopy, 2013, 132, 186-192.	1.9	29
7	Atomic-scale observation of parallel development of super elasticity and reversible plasticity in GaAs nanowires. Applied Physics Letters, 2014, 104, .	3.3	26
8	Macroscopic assembled graphene nanofilms based room temperature ultrafast midâ€infrared photodetectors. InformaÃ¬nÃ-MateriÃ¡ly, 2022, 4, .	17.3	24
9	Full tip imaging in atom probe tomography. Ultramicroscopy, 2013, 124, 96-101.	1.9	23
10	3D Atomic-Scale Insights into Anisotropic Core-Shell-Structured InGaAs Nanowires Grown by Metal-Organic Chemical Vapor Deposition. Advanced Materials, 2017, 29, 1701888.	21.0	15
11	Magnetic properties of fluffy Fe@Î±-Fe 2 O 3 core-shell nanowires. Nanoscale Research Letters, 2013, 8, 423.	5.7	13
12	Graphene/silicon-quantum-dots/Si Schottky-PN cascade heterojunction for short-wavelength infrared photodetection. , 2017, , .		11
13	Investigations of impurity-free vacancy disordering in (Al)InGaAs(P)/InGaAs quantum wells. Semiconductor Science and Technology, 2010, 25, 055014.	2.0	10
14	Multiple Wavelength InGaAs Quantum Dot Lasers Using Ion Implantation Induced Intermixing. Nanoscale Research Letters, 2007, 2, 550-553.	5.7	9
15	Investigation of ion implantation induced intermixing in InP based quaternary quantum wells. Journal Physics D: Applied Physics, 2011, 44, 475105.	2.8	6
16	Single Crystal Kinked ZnO [001] and [110] Nanowires: Synthesis, Characterization, and Growth/Kinking Mechanism. Crystal Growth and Design, 2012, 12, 3153-3157.	3.0	6
17	Methodology exploration of specimen preparation for atom probe tomography from nanowires. Ultramicroscopy, 2015, 159, 427-431.	1.9	6
18	Spatial decomposition of molecular ions within 3D atom probe reconstructions. Ultramicroscopy, 2013, 132, 92-99.	1.9	5

#	Article	IF	Citations
19	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, .	21.0	1
20	Comparison of proton and arsenic implantation-induced intermixing in InGaAsP/InGaAs/InP and InAlGaAs/InGaAs/InP quantum wells. , 2008, , .		0
21	Quantification of the zinc dopant concentration in GaAs nanowires. , 2012, , .		0