

Kai Sun

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

828
citations

567247

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610883

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30
all docs

30
docs citations

30
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	VO ₂ Thermo-chromic Metamaterial-Based Smart Optical Solar Reflector. ACS Photonics, 2018, 5, 2280-2286.	6.6	161
2	Metasurface Optical Solar Reflectors Using AZO Transparent Conducting Oxides for Radiative Cooling of Spacecraft. ACS Photonics, 2018, 5, 495-501.	6.6	114
3	Field-effect sensors from pH sensing to biosensing: sensitivity enhancement using streptavidin-biotin as a model system. Analyst, The, 2017, 142, 4173-4200.	3.5	109
4	Thin Film Polycrystalline Silicon Nanowire Biosensors. Nano Letters, 2012, 12, 1868-1872.	9.1	105
5	Ultra-fast electronic detection of antimicrobial resistance genes using isothermal amplification and Thin Film Transistor sensors. Biosensors and Bioelectronics, 2017, 96, 281-287.	10.1	51
6	VO ₂ metasurface smart thermal emitter with high visual transparency for passive radiative cooling regulation in space and terrestrial applications. Nanophotonics, 2022, 11, 4101-4114.	6.0	37
7	Low-Cost Nanoribbon Sensors for Protein Analysis in Human Serum Using a Miniature Bead-Based Enzyme-Linked Immunosorbent Assay. Analytical Chemistry, 2016, 88, 4872-4878.	6.5	29
8	Remote plasma enhanced atomic layer deposition of ZnO for thin film electronic applications. Microelectronic Engineering, 2012, 97, 162-165.	2.4	27
9	Forming-free resistive switching of tunable ZnO films grown by atomic layer deposition. Microelectronic Engineering, 2016, 161, 7-12.	2.4	26
10	Reconfigurable phase-change photomask for grayscale photolithography. Applied Physics Letters, 2017, 110, .	3.3	22
11	Low-cost top-down zinc oxide nanowire sensors through a highly transferable ion beam etching for healthcare applications. Microelectronic Engineering, 2016, 153, 96-100.	2.4	18
12	Embedded Metal Oxide Plasmonics Using Local Plasma Oxidation of AZO for Planar Metasurfaces. Advanced Materials, 2020, 32, e2001534.	21.0	18
13	Three-Mask Polysilicon Thin-Film Transistor Biosensor. IEEE Transactions on Electron Devices, 2014, 61, 2170-2176.	3.0	17
14	Effect of subthreshold slope on the sensitivity of nanoribbon sensors. Nanotechnology, 2016, 27, 285501.	2.6	16
15	Fermi Level Tuning of ZnO Films Through Supercycled Atomic Layer Deposition. Nanoscale Research Letters, 2017, 12, 541.	5.7	15
16	Inverse design of structural color: finding multiple solutions via conditional generative adversarial networks. Nanophotonics, 2022, 11, 3057-3069.	6.0	14
17	Dual-gate polysilicon nanoribbon biosensors enable high sensitivity detection of proteins. Nanotechnology, 2016, 27, 165502.	2.6	11
18	Nanoscale modeling of electro-plasmonic tunable devices for modulators and metasurfaces. Optics Express, 2017, 25, 10031.	3.4	9

#	ARTICLE	IF	CITATIONS
19	Study of parasitic resistance effects in nanowire and nanoribbon biosensors. <i>Nanoscale Research Letters</i> , 2015, 10, 79.	5.7	8
20	Mechanically Tunable Terahertz Metamaterial Perfect Absorber. <i>Advanced Photonics Research</i> , 2021, 2, 2100136.	3.6	8
21	Wafer-Scale 200 mm Metal Oxide Infrared Metasurface with Tailored Differential Emissivity Response in the Atmospheric Windows. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	6
22	Towards a high-precision, embedded system for versatile sensitive biosensing measurements. , 2015, , .		2
23	A Sub-30 mV Resolution Thin Film Transistor-Based Nanoribbon Biosensing Platform. <i>Sensors</i> , 2017, 17, 2000.	3.8	2
24	Strongly coupled evenly divided disks: a new compact and tunable platform for plasmonic Fano resonances. <i>Nanotechnology</i> , 2020, 31, 325202.	2.6	2
25	Effect of Fluorine on the Lateral Crystallization of Amorphous Silicon Nanowires. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, P94-P99.	1.8	1
26	A novel top-down fabrication process for Ge ₂ Sb ₂ Te ₅ phase change material nanowires. , 2013, , .		0
27	Metal oxide metasurfaces for active control and space technology. , 2017, , .		0
28	Electrically tunable gap-loaded plasmonic nanostructures. , 2017, , .		0
29	Metal Oxide Meta-Optical Solar Reflectors for Space Applications. , 2020, , .		0
30	A Novel Selective Carrier Modulation Technique to Form a Planar Metal Oxide Metasurface. , 2021, , .		0