

# Jie Xu

## List of Publications by Year in descending order

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33  
papers

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citations

1039406

9  
h-index

1125271

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g-index

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34  
docs citations

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times ranked

218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Ordered SnO <sub>2</sub> Nanostructures with Enhanced Humidity Sensing Performance. <i>Sensors</i> , 2017, 17, 2392.	2.1	32
2	Nanoscale quantification of charge injection and transportation process in Si-nanocrystal based sandwiched structure. <i>Nanoscale</i> , 2013, 5, 9971.	2.8	16
3	Depth-dependent humidity sensing properties of silicon nanopillar array. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 526-533.	4.0	15
4	Surface potential modeling and reconstruction in Kelvin probe force microscopy. <i>Nanotechnology</i> , 2017, 28, 365705.	1.3	14
5	Metallic two-dimensional BP <sub>2</sub> : a high-performance electrode material for Li- and Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4386-4393.	1.3	13
6	Characterization of Pt- or Pd-doped graphene based on density functional theory for H <sub>2</sub> gas sensor. <i>Materials Research Express</i> , 2019, 6, 095603.	0.8	11
7	Sensitivity enhancement of WS <sub>2</sub> -coated SPR-based optical fiber biosensor for detecting glucose concentration*. <i>Chinese Physics B</i> , 2020, 29, 110701.	0.7	11
8	Toward temperature-insensitive near-infrared optical gain using low-toxicity Ag <sub>2</sub> Se quantum dots. <i>Nanoscale</i> , 2022, 14, 10169-10175.	2.8	11
9	Microscopic and macroscopic characterization of the charging effects in SiC/Si nanocrystals/SiC sandwiched structures. <i>Nanotechnology</i> , 2014, 25, 055703.	1.3	10
10	Surface potential extraction from electrostatic and Kelvin-probe force microscopy images. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	10
11	Separable Nonlinear Least Squares Search of Parameter Values in Photovoltaic Models. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 372-380.	1.5	10
12	Charge transfer of single laser crystallized intrinsic and phosphorus-doped Si-nanocrystals visualized by Kelvin probe force microscopy. <i>Journal of Applied Physics</i> , 2014, 116, 134309.	1.1	8
13	Organic Vapour Sensing Properties of Area-Ordered and Size-Controlled Silicon Nanopillar. <i>Sensors</i> , 2016, 16, 1880.	2.1	8
14	Plasmon-enhanced upconversion luminescence in pyrochlore phase Yb <sub>x</sub> Er <sub>2-x</sub> Ti <sub>2</sub> O <sub>7</sub> thin film. <i>Nanotechnology</i> , 2019, 30, 085701.	1.3	8
15	Enhanced Humidity Sensitivity with Silicon Nanopillar Array by UV Light. <i>Sensors</i> , 2018, 18, 660.	2.1	7
16	Sensing mechanism of hydrogen storage on Li, Na and K-decorated Ti <sub>2</sub> C. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	6
17	Electronic properties and charge storage effect of amorphous SiN passivated nanocrystalline silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	0.6	5
18	Calculating electrostatic interactions in atomic force microscopy with semiconductor samples. <i>AIP Advances</i> , 2019, 9, .	0.6	5

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19	Microscopic observation of lateral and vertical charge transportation in Si nanocrystals sandwiched by amorphous SiC layers. <i>AIP Advances</i> , 2018, 8, 015224.	0.6	4
20	A separable nonlinear least squares approach for double-diode photovoltaic model parameter extraction. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	0.8	4
21	Interpreting Kelvin probe force microscopy on semiconductors by Fourier analysis. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	4
22	A generalized thermodynamic frame of magneto-electric-caloric coupling effects of single phase epitaxial multiferroic thin films. <i>Ferroelectrics</i> , 2018, 531, 186-195.	0.3	3
23	Nanoscale Characterization of Active Doping Concentration in Boron-Doped Individual Si Nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800531.	0.8	3
24	The role of potassium in grain boundaries of flexible CZTSSe thin film solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 17503-17507.	1.1	3
25	Enhanced Humidity Sensing Response of SnO <sub>2</sub> /Silicon Nanopillar Array by UV Irradiation. <i>Sensors</i> , 2019, 19, 2141.	2.1	3
26	Force and resolution analysis in Kelvin probe force microscopy using nanotube probes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 592, 012036.	0.3	2
27	Microscopic and Macroscopic Bipolar Injection and Carrier Recombination in Single-layer Si Nanocrystals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 436, 012003.	0.3	1
28	Inhomogeneous probe surface induced effect in Kelvin probe force microscopy. <i>Journal of Applied Physics</i> , 2020, 127, 184302.	1.1	1
29	Design and Research of Enhanced LED Performance Based on Graphical Substrate with Multilayer Hyperbolic Metamaterials. <i>Plasmonics</i> , 2021, 16, 1593-1604.	1.8	1
30	Charging effect in silicon nanocrystals observed by electrostatic and Kelvin-probe force microscopy. , 2014, , .		0
31	Charge storage in Si-nanocrystals embedded NOS structure characterized by Kelvin probe force microscopy. , 2016, , .		0
32	Sensitivity Analysis of Kelvin Probe Force Microscopy Using Different Probes under Air or UHV Condition. , 2020, , .		0
33	Design of a Microwave Power Detection System in the 5G-Communication Frequency Band. <i>Sensors</i> , 2021, 21, 2674.	2.1	0