

# Ji-Hong Zhao

## List of Publications by Year in descending order

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26  
papers

340  
citations

759233

12  
h-index

839539

18  
g-index

26  
all docs

26  
docs citations

26  
times ranked

264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence of ZnO nanoparticles and nanorods. <i>Optik</i> , 2016, 127, 1421-1423.	2.9	56
2	Infrared Absorption of Femtosecond Laser Textured Silicon Under Vacuum. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1481-1484.	2.5	31
3	Gold-Hyperdoped Black Silicon With High IR Absorption by Femtosecond Laser Irradiation. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 502-506.	2.0	28
4	Black Silicon IR Photodiode Supersaturated With Nitrogen by Femtosecond Laser Irradiation. <i>IEEE Sensors Journal</i> , 2018, 18, 3595-3601.	4.7	25
5	Enhancement of second-harmonic generation from silicon stripes under external cylindrical strain. <i>Optics Letters</i> , 2009, 34, 3340.	3.3	22
6	Fabrication of Black Silicon With Thermostable Infrared Absorption by Femtosecond Laser. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	2.0	19
7	Sub-bandgap absorption and photo-response of molybdenum heavily doped black silicon fabricated by a femtosecond laser. <i>Optics Letters</i> , 2021, 46, 3300.	3.3	18
8	NIR Photodetector Based on Nanosecond Laser-Modified Silicon. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4905-4909.	3.0	16
9	Sub-bandgap photo-response of non-doped black-silicon fabricated by nanosecond laser irradiation. <i>Optics Letters</i> , 2018, 43, 1710.	3.3	15
10	Infrared absorption and sub-bandgap photo-response of hyperdoped silicon by ion implantation and ultrafast laser melting. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160765.	5.5	14
11	Sub-Bandgap Photo-Response of Chromium Hyperdoped Black Silicon Photodetector Fabricated by Femtosecond Laser Pulses. <i>IEEE Sensors Journal</i> , 2021, 21, 25695-25702.	4.7	14
12	Femtosecond Laser Direct Writing Assisted Nonequilibrium Doped Silicon n <sup>+</sup> -p Photodiodes for Light Sensing. <i>IEEE Sensors Journal</i> , 2015, 15, 4259-4263.	4.7	13
13	The Optical and Electrical Properties of Co-Doped Black Silicon Textured by a Femtosecond Laser and Its Application to Infrared Light Sensing. <i>IEEE Sensors Journal</i> , 2016, 16, 5227-5231.	4.7	13
14	Surface modification of nanostructured ZnS by femtosecond laser pulsing. <i>Applied Surface Science</i> , 2014, 293, 332-335.	6.1	12
15	Investigation of the structure and optical absorption of silicon coated with a chromium film after femtosecond laser irradiation. <i>Semiconductor Science and Technology</i> , 2020, 35, 015019.	2.0	11
16	Sulfur-Doped Silicon Photodiode by Ion Implantation and Femtosecond Laser Annealing. <i>IEEE Sensors Journal</i> , 2017, 17, 2367-2371.	4.7	8
17	Direct integration of aspherical microlens on vertical-cavity surface emitting laser emitting surface for beam shaping. <i>Optics Communications</i> , 2013, 300, 269-273.	2.1	7
18	Strain at Native $\{m \text{ SiO}_2\}/\{m \text{ Si}\}(111)$ Interface Characterized by Strain-Scanning Second-Harmonic Generation. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 55-59.	1.9	6

#	ARTICLE	IF	CITATIONS
19	The Infrared Photodiode of Textured Silicon Irradiated Under Mixed Gas by Femtosecond Laser. IEEE Sensors Journal, 2016, , 1-1.	4.7	5
20	Properties of conical microstructures formed on silicon surfaces via nanosecond laser ablation under vacuum. Optical and Quantum Electronics, 2016, 48, 1.	3.3	4
21	First-principles research on mechanism of sub-band absorption of amorphous silicon induced by ultrafast laser irradiation. Results in Physics, 2021, 31, 104941.	4.1	2
22	Study of textured ZnS irradiated by femtosecond laser pulses. Optical and Quantum Electronics, 2016, 48, 1.	3.3	1
23	The study on strain-induced second-harmonic generation in Si(111) surface and native SiO <sub>2</sub> /Si(111) interface. , 2010, , .		0
24	Regular arrays of triangular microstructure formed on silicon (111) surface via ultrafast laser irradiation in KOH solution. Surface and Interface Analysis, 2013, 45, 1667-1672.	1.8	0
25	Study on optical and electrical properties of gold-doped silicon fabricated by femtosecond laser. Optical and Quantum Electronics, 2017, 49, 1.	3.3	0
26	Properties investigation of crystalline silicon surface irradiated by nanosecond laser pulses in different background atmospheres. Optical and Quantum Electronics, 2020, 52, 1.	3.3	0