

Weifeng Yang

List of Publications by Year in descending order

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46
papers

1,906
citations

279798

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254184

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all docs

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docs citations

46
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature deposition of transparent conducting Al-doped ZnO films by RF magnetron sputtering method. <i>Applied Surface Science</i> , 2009, 255, 5669-5673.	6.1	198
2	Lanthanide-doped upconversion materials: emerging applications for photovoltaics and photocatalysis. <i>Nanotechnology</i> , 2014, 25, 482001.	2.6	146
3	Metal-organic framework-derived hierarchical MoS ₂ /CoS ₂ nanotube arrays as pH-universal electrocatalysts for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13339-13346.	10.3	133
4	Angle-shaped triboelectric nanogenerator for harvesting environmental wind energy. <i>Nano Energy</i> , 2019, 56, 269-276.	16.0	127
5	A flexible photo-thermoelectric nanogenerator based on MoS ₂ /PU photothermal layer for infrared light harvesting. <i>Nano Energy</i> , 2018, 49, 588-595.	16.0	124
6	Direct n- to p-Type Channel Conversion in Monolayer/Few-Layer WS ₂ Field-Effect Transistors by Atomic Nitrogen Treatment. <i>ACS Nano</i> , 2018, 12, 2506-2513.	14.6	107
7	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS ₂ . <i>Nature Physics</i> , 2019, 15, 347-351.	16.7	105
8	Room temperature deposition of Al-doped ZnO films on quartz substrates by radio-frequency magnetron sputtering and effects of thermal annealing. <i>Thin Solid Films</i> , 2010, 519, 31-36.	1.8	92
9	Photon Upconversion Through Tb ³⁺ -Mediated Interfacial Energy Transfer. <i>Advanced Materials</i> , 2015, 27, 6208-6212.	21.0	89
10	Simultaneous edge and electronic control of MoS ₂ nanosheets through Fe doping for an efficient oxygen evolution reaction. <i>Nanoscale</i> , 2018, 10, 20113-20119.	5.6	63
11	Interlayer interactions in 2D WS ₂ /MoS ₂ heterostructures monolithically grown by <i>in situ</i> physical vapor deposition. <i>Nanoscale</i> , 2018, 10, 22927-22936.	5.6	62
12	Surface-engineered cobalt oxide nanowires as multifunctional electrocatalysts for efficient Zn-Air batteries-driven overall water splitting. <i>Energy Storage Materials</i> , 2019, 23, 1-7.	18.0	48
13	Flexible thermoelectric nanogenerator based on the MoS ₂ /graphene nanocomposite and its application for a self-powered temperature sensor. <i>Semiconductor Science and Technology</i> , 2017, 32, 044003.	2.0	47
14	Ultraviolet light emission and excitonic fine structures in ultrathin single-crystalline indium oxide nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	46
15	Low-Dark-Current TiO_2 MSM UV Photodetectors With Pt Schottky Contacts. <i>IEEE Electron Device Letters</i> , 2011, 32, 530-532.	3.9	39
16	High-performance 4H-SiC based metal-semiconductor-metal ultraviolet photodetectors with Al ₂ O ₃ /SiO ₂ films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	36
17	Low dark current metal-semiconductor-metal ultraviolet photodetectors based on sol-gel-derived TiO ₂ films. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	36
18	Metal-Semiconductor-Metal Ultraviolet Photodetectors Based on TiO_2 Films Deposited by Radio-Frequency Magnetron Sputtering. <i>IEEE Electron Device Letters</i> , 2010, 31, 588-590.	3.9	35

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19	Pulsed laser deposition of high-quality ZnCdO epilayers and ZnCdO/ZnO single quantum well on sapphire substrate. <i>Applied Physics Letters</i> , 2010, 97, 061911.	3.3	34
20	High-performance 4H-SiC-based p-i-n ultraviolet photodiode and investigation of its capacitance characteristics. <i>Optics Communications</i> , 2014, 333, 182-186.	2.1	33
21	Effects of annealing on the performance of 4H-SiC metal-semiconductor-metal ultraviolet photodetectors. <i>Materials Science in Semiconductor Processing</i> , 2008, 11, 59-62.	4.0	27
22	Annealing effects on the optical and structural properties of Al ₂ O ₃ /SiO ₂ films as UV antireflection coatings on 4H-SiC substrates. <i>Applied Surface Science</i> , 2008, 254, 6410-6415.	6.1	24
23	Al ₂ O ₃ /SiO ₂ films prepared by electron-beam evaporation as UV antireflection coatings on 4H-SiC. <i>Applied Surface Science</i> , 2008, 254, 3045-3048.	6.1	24
24	Pulse laser deposition of epitaxial TiO ₂ thin films for high-performance ultraviolet photodetectors. <i>Applied Surface Science</i> , 2015, 355, 398-402.	6.1	24
25	Visible blind ultraviolet photodetector fabricated on 4H-SiC. <i>Microelectronic Engineering</i> , 2006, 83, 104-106.	2.4	20
26	Temperature dependence of weak localization effects of excitons in ZnCdO/ZnO single quantum well. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	19
27	Surface-plasmon enhancement of band gap emission from ZnCdO thin films by gold particles. <i>Applied Physics Letters</i> , 2010, 97, 061104.	3.3	18
28	Properties of low indium content Al incorporated IZO (indium zinc oxide) deposited at room temperature. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	18
29	Photoluminescence characteristics of ZnCdO/ZnO single quantum well grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2011, 98, 121903.	3.3	17
30	Enhancement of bandgap emission of Pt-capped MgZnO films: Important role of light extraction versus exciton-plasmon coupling. <i>Optics Express</i> , 2012, 20, 14556.	3.4	16
31	Band alignment of 2D WS ₂ /HfO ₂ interfaces from x-ray photoelectron spectroscopy and first-principles calculations. <i>Applied Physics Letters</i> , 2018, 112, 171604.	3.3	14
32	Deposition of Ni, Ag, and Pt-based Al-doped ZnO double films for the transparent conductive electrodes by RF magnetron sputtering. <i>Applied Surface Science</i> , 2010, 256, 7591-7595.	6.1	12
33	Surface plasmon induced exciton redistribution in ZnCdO/ZnO coaxial multiquantum-well nanowires. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	11
34	Low substrate temperature fabrication of high-performance metal oxide thin-film by magnetron sputtering with target self-heating. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	11
35	Improvement of GaN light-emitting diodes with surface-treated Al-doped ZnO transparent Ohmic contacts by holographic photonic crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 809-812.	2.3	10
36	Determination of band alignments at 2D tungsten disulfide/high-k dielectric oxides interfaces by x-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2020, 505, 144521.	6.1	8

#	ARTICLE	IF	CITATIONS
37	Morphology Transition of ZnO Nanorod Arrays Synthesized by a Two-Step Aqueous Solution Method. Crystals, 2018, 8, 152.	2.2	7
38	High responsivity 4H-SiC based metal-semiconductor-metal ultraviolet photodetectors. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 1616-1620.	0.2	6
39	Temperature-dependent exciton luminescence from an Au-nanopatterned coated ZnCdO film. Europhysics Letters, 2012, 99, 27003.	2.0	6
40	Threshold voltage modulation in monolayer MoS ₂ field-effect transistors via selective gallium ion beam irradiation. Science China Materials, 2022, 65, 741-747.	6.3	5
41	Interfacial properties of 2D WS ₂ on SiO ₂ substrate from X-ray photoelectron spectroscopy and first-principles calculations. Frontiers of Physics, 2022, 17, .	5.0	3
42	Separated-absorption-multiplication 4H-SiC avalanche photodiodes with adjustable responsivity and response time. Japanese Journal of Applied Physics, 2015, 54, 070303.	1.5	2
43	TiNbO ₂ -Based Photodetectors With Low Dark Current and High UV-to-Visible Rejection Ratio. IEEE Photonics Technology Letters, 2016, 28, 837-840.	2.5	2
44	Unexpected improved conductivity and systematic low-temperature anomalies of a new germanium zinc indium oxide system. Europhysics Letters, 2012, 100, 17003.	2.0	1
45	Development of ZnO Nanostructured Films via Sodium Chloride Solution and Investigation of Its Growth Mechanism and Optical Properties. Journal of the American Ceramic Society, 2013, 96, 1972-1977.	3.8	1
46	Thermal-assisted anisotropy and anisotropy-driven instability in the superfluid state of two-species fermionic polar molecules. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1986-1991.	2.1	0