Yijun Zhang

List of Publications by Year
in descending order

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39	552	759055 12	642610 23
papers	citations	h-index	g-index

40	40	40	143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of exponential-doping structure on photoemission capability of transmission-mode GaAs photocathodes. Journal of Applied Physics, 2010, 108, 093108.	1.1	65
2	Influence of exponential doping structure on the performance of GaAs photocathodes. Applied Optics, 2009, 48, 5445.	2.1	47
3	Evolution of surface potential barrier for negative-electron-affinity GaAs photocathodes. Journal of Applied Physics, 2009, 105, .	1.1	45
4	Variation of spectral response for exponential-doped transmission-mode GaAs photocathodes in the preparation process. Applied Optics, 2010, 49, 3935.	2.1	45
5	High-efficiency graded band-gap Al_xGa_{1â^'x}As/GaAs photocathodes grown by metalorganic chemical vapor deposition. Applied Physics Letters, 2011, 99, 101104.	1.5	45
6	Photoemission from advanced heterostructured Al_xGa_1-xAs/GaAs photocathodes under multilevel built-in electric field. Optics Express, 2015, 23, 19478.	1.7	42
7	Photoemission characteristics of different-structure reflection-mode GaAs photocathodes. Journal of Applied Physics, 2011, 110, .	1.1	35
8	Improved activation technique for preparing high-efficiency GaAs photocathodes. Optical Materials Express, 2017, 7, 3456.	1.6	20
9	Optimized chemical cleaning procedure for enhancing photoemission from GaAs photocathode. Materials Science in Semiconductor Processing, 2019, 91, 41-46.	1.9	20
10	High quantum efficiency of depth grade doping negative-electron-affinity GaN photocathode. Applied Physics Letters, 2010, 97, .	1.5	18
11	Annealing study of carrier concentration in gradient-doped GaAs/GaAlAs epilayers grown by molecular beam epitaxy. Applied Optics, 2009, 48, 1715.	2.1	14
12	Improved quantum efficiency and stability of GaAs photocathode using favorable illumination during activation. Ultramicroscopy, 2019, 202, 128-132.	0.8	14
13	Surface activation behavior of negative-electron-affinity exponential-doping GaAs photocathodes. Optics Communications, 2014, 321, 32-37.	1.0	13
14	Quantum efficiency of transmission-mode AlxGa1â^'xAs/GaAs photocathodes with graded-composition and exponential-doping structure. Optics Communications, 2016, 369, 50-55.	1.0	13
15	Resolution characteristics of graded doping and graded composition transmission-mode AlGaAs/GaAs photocathodes. Applied Optics, 2015, 54, 1414.	0.9	12
16	Stability of negative electron affinity Ga₀₃₇Al₀₆₃As photocathodes in an ultrahigh vacuum system. Applied Optics, 2013, 52, 6272.	0.9	11
17	Effect of excessive Cs and O on activation of GaAs(100) surface: From experiment to theory. Journal of Applied Physics, 2020, 128, .	1.1	11
18	First-principles investigation of Cs-NF3 co-adsorption on GaAs(100)-Î²2(2ÂÃ—Â4) surface. Applied Surface Science, 2021, 535, 147691.	3.1	10

#	Article	IF	Citations
19	Comparison of activation behavior of Cs-O and Cs-NF3-adsorbed GaAs(1 0 0)-Î²2(2ÂÃ—Â4) surface: From DFT simulation to experiment. Journal of Colloid and Interface Science, 2022, 613, 117-125.	5.0	9
20	Comparison of degradation and recaesiation between GaAs and AlGaAs photocathodes in an unbaked vacuum system. Applied Optics, 2017, 56, 2568.	2.1	8
21	Photoelectron transportation dynamics in GaAs photocathodes. Journal of Applied Physics, 2021, 130, .	1.1	8
22	Photoemission characteristics of thin GaAs-based heterojunction photocathodes. Journal of Applied Physics, 2015, 117, .	1.1	7
23	Theoretical modeling and simulation-based assessment of graded-bandgap AlGaAs/GaAs electron-injection cathode. Ultramicroscopy, 2020, 219, 113121.	0.8	7
24	Differences in stability and repeatability between GaAs and GaAlAs photocathodes. Optics Communications, 2016, 380, 320-325.	1.0	5
25	Effect of vacancy defects on photoelectric properties of K2CsSb photocathode. Optik, 2021, 232, 166555.	1.4	4
26	Exploration of Csâ€“O co-adsorption on GaAs(100) Î²2(2Ã—4) surface at different sites from first-principles calculation. Materials Science in Semiconductor Processing, 2021, 134, 105996.	1.9	4
27	Theoretical revision of quantum efficiency formula for thin AlGaAs/GaAs photocathodes. , 2014, , .		3
28	Pump-probe study of ultrafast response of GaAs photocathodes grown by MOCVD and MBE. , 2020, , .		3
29	Enhancement of near-infrared response for GaAs-based photocathode with laminated graded-bandgap structure: theory and experiment. Journal of Materials Research and Technology, 2022, 19, 2008-2017.	2.6	3
30	UVâ€“Visâ€“NIR broadband response of GaAs-based photocathode with multilayer graded-band cascade structure. Superlattices and Microstructures, 2021, 156, 106957.	1.4	2
31	Energy Bandgap Engineering of Transmission-Mode AlGaAs/GaAs Photocathode. , 2018, , .		1
32	Exploring optoelectronic properties of C-doped GaAs for photocathode application from first-principles calculation. AIP Advances, 2022, 12, 015106.	0.6	1
33	Ultrafast responses of uniform- and gradient-doped GaAs photocathodes: from theory to experiment. , 2022, , .		1
34	Investigation of H+ beam radiation on photoelectric performance of GaAs photocathodes. , 2022, , .		1
35	Optimized calculation of the thickness of emission layer of NEA GaN semitransparent UV-photocathode. , 2010, , .		0
36	Research on Optical Properties for the Exponential-Doped Ga1-xAlxAs/GaAs Photocathode. , 2011, , .		0

#	Article	IF	Citations
37	Activation practice of GaAs(100) photocathodes with current-driven Cs/O dispensers. , 2021, , .		0
38	Effect of multilayer complex buffer layer structures on photoelectric performance of GaAs-based photocathodes. Optical and Quantum Electronics, 2022, 54, .	1.5	0
39	Photoemission from GaAs-based photocathodes with multilayer complex structures. International Journal of Modern Physics B, 0, , .	1.0	0