

Meiyong Liao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Comprehensive Review of Semiconductor Ultraviolet Photodetectors: From Thin Film to One-Dimensional Nanostructures. <i>Sensors</i> , 2013, 13, 10482-10518.	2.1	675
2	Single-Crystalline ZnS Nanobelts as Ultraviolet Light Sensors. <i>Advanced Materials</i> , 2009, 21, 2034-2039.	11.1	537
3	A Comprehensive Review of One-Dimensional Metal-Oxide Nanostructure Photodetectors. <i>Sensors</i> , 2009, 9, 6504-6529.	2.1	491
4	An Optimized Ultraviolet-A Light Photodetector with Wide-Range Photoresponse Based on ZnS/ZnO Biaxial Nanobelt. <i>Advanced Materials</i> , 2012, 24, 2305-2309.	11.1	426
5	Centimeter-Long V_2O_5 Nanowires: From Synthesis to Field-Emission, Electrochemical, Electrical Transport, and Photoconductive Properties. <i>Advanced Materials</i> , 2010, 22, 2547-2552.	11.1	359
6	One-dimensional inorganic nanostructures: synthesis, field-emission and photodetection. <i>Chemical Society Reviews</i> , 2011, 40, 2986.	18.7	352
7	Single-Crystalline CdS Nanobelts for Excellent Field-Emitters and Ultrahigh Quantum-Efficiency Photodetectors. <i>Advanced Materials</i> , 2010, 22, 3161-3165.	11.1	342
8	Giant Improvement of the Performance of ZnO Nanowire Photodetectors by Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19835-19839.	1.5	319
9	ZnO and ZnS Nanostructures: Ultraviolet-Light Emitters, Lasers, and Sensors. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2009, 34, 190-223.	6.8	306
10	Electrical Transport Properties of Large, Individual $NiCo_2O_4$ Nanoplates. <i>Advanced Functional Materials</i> , 2012, 22, 998-1004.	7.8	297
11	Efficient Assembly of Bridged Ga_2O_3 Nanowires for Solar-Blind Photodetection. <i>Advanced Functional Materials</i> , 2010, 20, 3972-3978.	7.8	292
12	Fabrication of High-Quality In_2Se_3 Nanowire Arrays toward High-Performance Visible-Light Photodetectors. <i>ACS Nano</i> , 2010, 4, 1596-1602.	7.3	289
13	New Ultraviolet Photodetector Based on Individual Nb_2O_5 Nanobelts. <i>Advanced Functional Materials</i> , 2011, 21, 3907-3915.	7.8	285
14	Ultrahigh External Quantum Efficiency from Thin SnO_2 Nanowire Ultraviolet Photodetectors. <i>Small</i> , 2011, 7, 1012-1017.	5.2	278
15	Flexible Ultraviolet Photodetectors with Broad Photoresponse Based on Branched ZnS/ZnO Heterostructure Nanofilms. <i>Advanced Materials</i> , 2014, 26, 3088-3093.	11.1	251
16	Ultrahigh-Performance Solar-Blind Photodetectors Based on Individual Single-Crystalline $In_2Ge_2O_7$ Nanobelts. <i>Advanced Materials</i> , 2010, 22, 5145-5149.	11.1	249
17	ZnO Hollow Spheres with Double-Yolk Egg Structure for High-Performance Photocatalysts and Photodetectors. <i>Advanced Materials</i> , 2012, 24, 3421-3425.	11.1	223
18	An Efficient Way to Assemble ZnS Nanobelts as Ultraviolet Light Sensors with Enhanced Photocurrent and Stability. <i>Advanced Functional Materials</i> , 2010, 20, 500-508.	7.8	222

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19	High-Performance Blue/Ultraviolet-Light-Sensitive ZnSe Nanobelt Photodetectors. <i>Advanced Materials</i> , 2009, 21, 5016-5021.	11.1	217
20	Deep-ultraviolet solar-blind photoconductivity of individual gallium oxide nanobelts. <i>Nanoscale</i> , 2011, 3, 1120.	2.8	210
21	ZnO Hollow-Sphere Nanofilm-Based High-Performance and Low-Cost Photodetector. <i>Small</i> , 2011, 7, 2449-2453.	5.2	209
22	A skin-inspired tactile sensor for smart prosthetics. <i>Science Robotics</i> , 2018, 3, .	9.9	195
23	High Detectivity Solar-Blind High-Temperature Deep-Ultraviolet Photodetector Based on Multi-Layered (100) Facet-Oriented Ga_2O_3 Nanobelts. <i>Small</i> , 2014, 10, 1848-1856. ^{5.2}	5.2	185
24	High-Performance NiCo_2O_4 Nanofilm Photodetectors Fabricated by an Interfacial Self-Assembly Strategy. <i>Advanced Materials</i> , 2011, 23, 1988-1992.	11.1	181
25	Electrical Transport and High-Performance Photoconductivity in Individual ZrS_2 Nanobelts. <i>Advanced Materials</i> , 2010, 22, 4151-4156.	11.1	169
26	Single-Crystalline Sb_2Se_3 Nanowires for High-Performance Field Emitters and Photodetectors. <i>Advanced Materials</i> , 2010, 22, 4530-4533.	11.1	147
27	Electrochemical-Coupling Layer-by-Layer (ECC-LbL) Assembly. <i>Journal of the American Chemical Society</i> , 2011, 133, 7348-7351.	6.6	144
28	Recent advances in solution-processed inorganic nanofilm photodetectors. <i>Chemical Society Reviews</i> , 2014, 43, 1400-1422.	18.7	142
29	Stacking-Order-Dependent Optoelectronic Properties of Bilayer Nanofilm Photodetectors Made From Hollow ZnS and ZnO Microspheres. <i>Advanced Materials</i> , 2012, 24, 5872-5877.	11.1	134
30	Progress in semiconductor diamond photodetectors and MEMS sensors. <i>Functional Diamond</i> , 2021, 1, 29-46.	1.7	128
31	High-performance metal-semiconductor-metal deep-ultraviolet photodetectors based on homoepitaxial diamond thin film. <i>Applied Physics Letters</i> , 2006, 89, 113509.	1.5	121
32	3D Solar-Blind Ga_2O_3 Photodetector Array Realized Via Origami Method. <i>Advanced Functional Materials</i> , 2019, 29, 1906040.	7.8	120
33	Low on-resistance diamond field effect transistor with high-k ZrO_2 as dielectric. <i>Scientific Reports</i> , 2014, 4, 6395.	1.6	107
34	Normally-off HfO_2 -gated diamond field effect transistors. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	105
35	Hexagonal-like Nb_2O_5 Nanoplates-Based Photodetectors and Photocatalyst with High Performances. <i>Scientific Reports</i> , 2015, 5, 7716.	1.6	105
36	WO_3 nanowires on carbon papers: electronic transport, improved ultraviolet-light photodetectors and excellent field emitters. <i>Journal of Materials Chemistry</i> , 2011, 21, 6525.	6.7	103

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37	Suspended Single-Crystal Diamond Nanowires for High-Performance Nanoelectromechanical Switches. <i>Advanced Materials</i> , 2010, 22, 5393-5397.	11.1	101
38	New UV-A Photodetector Based on Individual Potassium Niobate Nanowires with High Performance. <i>Advanced Optical Materials</i> , 2014, 2, 771-778.	3.6	97
39	Single Schottky-barrier photodiode with interdigitated-finger geometry: Application to diamond. <i>Applied Physics Letters</i> , 2007, 90, 123507.	1.5	96
40	Thermally stable visible-blind diamond photodiode using tungsten carbide Schottky contact. <i>Applied Physics Letters</i> , 2005, 87, 022105.	1.5	94
41	Block-Copolymer-Nanowires with Nanosized Domain Segregation and High Charge Mobilities as Stacked p/n Heterojunction Arrays for Repeatable Photocurrent Switching. <i>Journal of the American Chemical Society</i> , 2009, 131, 18030-18031.	6.6	93
42	Flexible SnO ₂ hollow nanosphere film based high-performance ultraviolet photodetector. <i>Chemical Communications</i> , 2013, 49, 3739.	2.2	93
43	In-doped Ga ₂ O ₃ nanobelt based photodetector with high sensitivity and wide-range photoresponse. <i>Journal of Materials Chemistry</i> , 2012, 22, 17984.	6.7	92
44	Visible-blind deep-ultraviolet Schottky photodetector with a photocurrent gain based on individual Zn ₂ GeO ₄ nanowire. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	89
45	Light intensity dependence of photocurrent gain in single-crystal diamond detectors. <i>Physical Review B</i> , 2010, 81, .	1.1	81
46	Band offsets of Al ₂ O ₃ and HfO ₂ oxides deposited by atomic layer deposition technique on hydrogenated diamond. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	76
47	Persistent positive and transient absolute negative photoconductivity observed in diamond photodetectors. <i>Physical Review B</i> , 2008, 78, .	1.1	75
48	Thermally stable solar-blind diamond UV photodetector. <i>Diamond and Related Materials</i> , 2006, 15, 1962-1966.	1.8	69
49	Photosensing performance of branched CdS/ZnO heterostructures as revealed by in situ TEM and photodetector tests. <i>Nanoscale</i> , 2014, 6, 8084.	2.8	64
50	An Interface Engineered Multicolor Photodetector Based on n-Si(111)/TiO ₂ Nanorod Array Heterojunction. <i>Advanced Functional Materials</i> , 2016, 26, 1400-1410.	7.8	64
51	Enhancement-mode hydrogenated diamond metal-oxide-semiconductor field-effect transistors with Y ₂ O ₃ oxide insulator grown by electron beam evaporator. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	64
52	Enhanced performance of InGaN solar cell by using a super-thin AlN interlayer. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	62
53	Work function measurement of transition metal nitride and carbide thin films. <i>Vacuum</i> , 2006, 80, 832-835.	1.6	61
54	High-temperature ultraviolet detection based on InGaN Schottky photodiodes. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	61

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55	Enhanced UV-visible light photodetectors with a TiO ₂ /Si heterojunction using band engineering. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12848-12856.	2.7	61
56	Interfacial band configuration and electrical properties of LaAlO ₃ /Al ₂ O ₃ /hydrogenated-diamond metal-oxide-semiconductor field effect transistors. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	60
57	Band Gap Tunable Zn ₂ SnO ₄ Nanocubes through Thermal Effect and Their Outstanding Ultraviolet Light Photoresponse. <i>Scientific Reports</i> , 2014, 4, 6847.	1.6	60
58	Comprehensive Investigation of Single Crystal Diamond Deep-Ultraviolet Detectors. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 090115.	0.8	60
59	High-performance metal-semiconductor-metal InGaN photodetectors using CaF ₂ as the insulator. <i>Applied Physics Letters</i> , 2011, 98, 103502.	1.5	56
60	Carbon-Based Materials: Growth, Properties, MEMS/NEMS Technologies, and MEM/NEM Switches. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2011, 36, 66-101.	6.8	55
61	Initial leakage current paths in the vertical-type GaN-on-GaN Schottky barrier diodes. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	55
62	Morphology-tunable In ₂ Se ₃ nanostructures with enhanced electrical and photoelectrical performances via sulfur doping. <i>Journal of Materials Chemistry</i> , 2010, 20, 6630.	6.7	54
63	Logic Circuits With Hydrogenated Diamond Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2017, 38, 922-925.	2.2	49
64	Single-crystalline nanotubes of IIB-VI semiconductors. <i>Applied Physics Letters</i> , 2005, 87, 113107.	1.5	46
65	MEMS/NEMS based on mono-, nano-, and ultrananocrystalline diamond films. <i>MRS Bulletin</i> , 2014, 39, 511-516.	1.7	45
66	Photovoltaic Schottky ultraviolet detectors fabricated on boron-doped homoepitaxial diamond layer. <i>Applied Physics Letters</i> , 2006, 88, 033504.	1.5	43
67	Comprehensive Investigation of Single Crystal Diamond Deep-Ultraviolet Detectors. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 090115.	0.8	43
68	Exceptional Point and Cross-Relaxation Effect in a Hybrid Quantum System. <i>PRX Quantum</i> , 2021, 2, .	3.5	43
69	Electrical characteristics of hydrogen-terminated diamond metal-oxide-semiconductor with atomic layer deposited HfO ₂ as gate dielectric. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	42
70	Deposition of TiO ₂ /Al ₂ O ₃ bilayer on hydrogenated diamond for electronic devices: Capacitors, field-effect transistors, and logic inverters. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	42
71	Integration of high-dielectric constant Ta ₂ O ₅ oxides on diamond for power devices. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	41
72	Arbitrary Multicolor Photodetection by Hetero-integrated Semiconductor Nanostructures. <i>Scientific Reports</i> , 2013, 3, 2368.	1.6	41

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73	A Multilevel Intermediate-Band Solar Cell by InGaN/GaN Quantum Dots with a Strain-Modulated Structure. <i>Advanced Materials</i> , 2014, 26, 1414-1420.	11.1	40
74	Demonstration of diamond field effect transistors by AlN/diamond heterostructure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 125-127.	1.2	39
75	Energy-Efficient Metal-Insulator-Metal-Semiconductor Field-Effect Transistors Based on 2D Carrier Gases. <i>Advanced Electronic Materials</i> , 2019, 5, 1800832.	2.6	39
76	Thermal Stability of Diamond Photodiodes Using Tungsten Carbide as Schottky Contact. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 7832-7838.	0.8	38
77	P-Channel InGaN/GaN heterostructure metal-oxide-semiconductor field effect transistor based on polarization-induced two-dimensional hole gas. <i>Scientific Reports</i> , 2016, 6, 23683.	1.6	37
78	Design and fabrication of high-performance diamond triple-gate field-effect transistors. <i>Scientific Reports</i> , 2016, 6, 34757.	1.6	37
79	Batch production of single-crystal diamond bridges and cantilevers for microelectromechanical systems. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 085002.	1.5	36
80	Nearly ideal vertical GaN Schottky barrier diodes with ultralow turn-on voltage and on-resistance. <i>Applied Physics Express</i> , 2017, 10, 051001.	1.1	36
81	In situ switching layer-by-layer assembly: one-pot rapid layer assembly via alternation of reductive and oxidative electropolymerization. <i>Chemical Communications</i> , 2013, 49, 6879.	2.2	35
82	Control of normally on/off characteristics in hydrogenated diamond metal-insulator-semiconductor field-effect transistors. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	35
83	Diamond nucleation by energetic pure carbon bombardment. <i>Physical Review B</i> , 2005, 72, .	1.1	33
84	Bicrystalline ZnS Microbelts. <i>Crystal Growth and Design</i> , 2009, 9, 2790-2793.	1.4	33
85	Compound-target sputtering for niobium carbide thin-film deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, L24.	1.6	32
86	Ultrahigh quantum efficiency of CuO nanoparticle decorated In ₂ Ge ₂ O ₇ nanobelt deep-ultraviolet photodetectors. <i>Nanoscale</i> , 2012, 4, 6318.	2.8	32
87	Development of AlN/diamond heterojunction field effect transistors. <i>Diamond and Related Materials</i> , 2012, 24, 206-209.	1.8	31
88	Diamond field effect transistors with a high-dielectric constant Ta ₂ O ₅ as gate material. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 245102.	1.3	31
89	Geometry-induced high performance ultraviolet photodetectors in kinked SnO ₂ nanowires. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8300-8306.	2.7	31
90	Crystallographic structure and composition of vanadium nitride films deposited by direct sputtering of a compound target. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 146-150.	0.9	30

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91	Two-Dimensional Hydroxyl-Functionalized and Carbon-Deficient Scandium Carbide, ScC _{OH} , a Direct Band Gap Semiconductor. ACS Nano, 2019, 13, 1195-1203.	7.3	30
92	Sb ₂ O ₃ nanobelt networks for excellent visible-light-range photodetectors. Nanotechnology, 2011, 22, 165704.	1.3	29
93	Diamond logic inverter with enhancement-mode metal-insulator-semiconductor field effect transistor. Applied Physics Letters, 2014, 105, .	1.5	29
94	Large deep-ultraviolet photocurrent in metal-semiconductor-metal structures fabricated on as-grown boron-doped diamond. Applied Physics Letters, 2005, 87, 113507.	1.5	28
95	One dimensional ternary Cu-Bi-S based semiconductor nanowires: synthesis, optical and electrical properties. Journal of Materials Chemistry, 2012, 22, 17813.	6.7	27
96	Energy dissipation in micron- and submicron-thick single crystal diamond mechanical resonators. Applied Physics Letters, 2014, 105, .	1.5	26
97	InGaN-based thin film solar cells: Epitaxy, structural design, and photovoltaic properties. Journal of Applied Physics, 2015, 117, .	1.1	26
98	Assembly of a high-dielectric constant thin TiO _x layer directly on H-terminated semiconductor diamond. Applied Physics Letters, 2016, 108, .	1.5	26
99	Improvement of the quality factor of single crystal diamond mechanical resonators. Japanese Journal of Applied Physics, 2017, 56, 024101.	0.8	26
100	Interface trap characterization of Al ₂ O ₃ /GaN vertical-type MOS capacitors on GaN substrate with surface treatments. Journal of Alloys and Compounds, 2018, 767, 600-605.	2.8	26
101	Single-crystal diamond microelectromechanical resonator integrated with a magneto-strictive galfenol film for magnetic sensing. Carbon, 2019, 152, 788-795.	5.4	26
102	High- κ ZrO ₂ /Al ₂ O ₃ bilayer on hydrogenated diamond: Band configuration, breakdown field, and electrical properties of field-effect transistors. Journal of Applied Physics, 2016, 120, .	1.1	25
103	Ultrahigh Performance On-Chip Single Crystal Diamond NEMS/MEMS with Electrically Tailored Self-Sensing Enhancing Actuation. Advanced Materials Technologies, 2019, 4, 1800325.	3.0	25
104	Growth mechanism of c-axis-oriented AlN on (0 0 1) diamond substrates by metal-organic vapor phase epitaxy. Journal of Crystal Growth, 2010, 312, 368-372.	0.7	24
105	Enhancing Delta E Effect at High Temperatures of Galfenol/Ti/Single-Crystal Diamond Resonators for Magnetic Sensing. ACS Applied Materials & Interfaces, 2020, 12, 23155-23164.	4.0	24
106	Growth mechanism of c-axis-oriented AlN on (1 1 1) diamond substrates by metal-organic vapor phase epitaxy. Journal of Crystal Growth, 2010, 312, 1325-1328.	0.7	23
107	SnO ₂ nanoribbons: excellent field-emitters. CrystEngComm, 2011, 13, 2289.	1.3	23
108	Formation and Control of Stoichiometric Hafnium Nitride Thin Films by Direct Sputtering of Hafnium Nitride Target. Japanese Journal of Applied Physics, 2003, 42, L778-L780.	0.8	22

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109	Boosting the doping efficiency of Mg in <i>p</i> -GaN grown on the free-standing GaN substrates. Applied Physics Letters, 2019, 115, .	1.5	22
110	Growth and stress evolution of hafnium nitride films sputtered from a compound target. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 214-220.	0.9	21
111	Deposition of vanadium carbide thin films using compound target sputtering and their field emission. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1379-1383.	0.9	21
112	Electrochemical Synthesis of Transparent, Amorphous, C ₆₀ -Rich, Photoactive, and Low-Doped Film with an Interconnected Structure. Small, 2013, 9, 2064-2068.	5.2	21
113	Electrical properties of atomic layer deposited HfO ₂ /Al ₂ O ₃ multilayer on diamond. Diamond and Related Materials, 2015, 54, 55-58.	1.8	21
114	Effect of a seed layer on microstructure and electrical properties of Ga ₂ O ₃ films on variously oriented Si substrates. Vacuum, 2022, 195, 110671.	1.6	20
115	MnSi ^{1/4} 1.73 grown on silicon with mass-analyzed low energy dual ion beam epitaxy technique. Journal of Crystal Growth, 2001, 226, 517-520.	0.7	19
116	Electrical hysteresis in <i>p</i> -GaN metal-oxide-semiconductor capacitor with atomic-layer-deposited Al ₂ O ₃ as gate dielectric. Applied Physics Express, 2016, 9, 121002.	1.1	19
117	Layered boron nitride enabling high-performance AlGaIn/GaN high electron mobility transistor. Journal of Alloys and Compounds, 2020, 829, 154542.	2.8	19
118	Coupling of magneto-strictive FeGa film with single-crystal diamond MEMS resonator for high-reliability magnetic sensing at high temperatures. Materials Research Letters, 2020, 8, 180-186.	4.1	19
119	High-detectivity nanowire photodetectors governed by bulk photocurrent dynamics with thermally stable carbide contacts. Nanotechnology, 2013, 24, 495701.	1.3	18
120	Vertical-Type Ni/GaN UV Photodetectors Fabricated on Free-Standing GaN Substrates. Applied Sciences (Switzerland), 2019, 9, 2895.	1.3	18
121	Enhanced magnetic sensing performance of diamond MEMS magnetic sensor with boron-doped FeGa film. Carbon, 2020, 170, 294-301.	5.4	18
122	Nanodiamond formation by hot-filament chemical vapor deposition on carbon ions bombarded Si. Journal of Crystal Growth, 2002, 236, 85-89.	0.7	17
123	Integration of (PbZr _{0.52} Ti _{0.48} O ₃) on single crystal diamond as metal-ferroelectric-insulator-semiconductor capacitor. Applied Physics Letters, 2009, 94, .	1.5	17
124	Systematic investigation of surface and bulk electronic structure of undoped In-polar InN epilayers by hard X-ray photoelectron spectroscopy. Journal of Applied Physics, 2013, 114, .	1.1	17
125	Suppression in the electrical hysteresis by using CaF ₂ dielectric layer for <i>p</i> -GaN MIS capacitors. Journal of Applied Physics, 2018, 123, .	1.1	17
126	Hydrothermal crystallization of VO ₄ ³⁻ stabilized t-Gd(P,V)O ₄ :Eu ³⁺ nanocrystals for remarkably improved and color tailorable luminescence. Chemical Engineering Journal, 2019, 357, 84-93.	6.6	17

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127	Bio-Inspired Multi-Mode Pain-Perceptual System (MMPPS) with Noxious Stimuli Warning, Damage Localization, and Enhanced Damage Protection. <i>Advanced Science</i> , 2021, 8, 2004208.	5.6	17
128	Temperature dependence of Young's modulus of single-crystal diamond determined by dynamic resonance. <i>Diamond and Related Materials</i> , 2021, 116, 108403.	1.8	17
129	Reducing intrinsic energy dissipation in diamond-on-diamond mechanical resonators toward one million quality factor. <i>Physical Review Materials</i> , 2018, 2, .	0.9	17
130	Field-emission current from diamond film deposited on molybdenum. <i>Journal of Applied Physics</i> , 1998, 84, 1081-1084.	1.1	16
131	Impedance analysis of Al ₂ O ₃ /H-terminated diamond metal-oxide-semiconductor structures. <i>Applied Physics Letters</i> , 2015, 106, 083506.	1.5	16
132	Effect of off-cut angle of hydrogen-terminated diamond(111) substrate on the quality of AlN towards high-density AlN/diamond(111) interface hole channel. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	16
133	Annealing effects on hydrogenated diamond NOR logic circuits. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	15
134	Effect of Boron Incorporation on Structural and Optical Properties of AlN Layers Grown by Metal-Organic Vapor Phase Epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800282.	0.8	15
135	Crystallographic and electrical characterization of tungsten carbide thin films for Schottky contact of diamond photodiode. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 185.	1.3	14
136	Schottky-barrier photodiode using p-diamond epilayer grown on p+-diamond substrates. <i>Diamond and Related Materials</i> , 2009, 18, 296-298.	1.8	14
137	Effect of Deep-Defects Excitation on Mechanical Energy Dissipation of Single-Crystal Diamond. <i>Physical Review Letters</i> , 2020, 125, 206802.	2.9	14
138	High-performance visible to near-infrared photodetectors by using (Cd,Zn)Te single crystal. <i>Optics Express</i> , 2019, 27, 8935.	1.7	14
139	Electrical characterization of Schottky diodes based on boron doped homoepitaxial diamond films by conducting probe atomic force microscopy. <i>Superlattices and Microstructures</i> , 2006, 40, 343-349.	1.4	13
140	Submicron metal-semiconductor-metal diamond photodiodes toward improving the responsivity. <i>Applied Physics Letters</i> , 2007, 91, 163510.	1.5	13
141	Chemical Vapor Deposition of ¹² C Isotopically Enriched Polycrystalline Diamond. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 090104.	0.8	13
142	Nanoelectromechanical switch fabricated from single crystal diamond: Experiments and modeling. <i>Diamond and Related Materials</i> , 2012, 24, 69-73.	1.8	13
143	One-Step Self-Assembly Fabrication of High Quality Ni _x Mg _{1-x} O Bowl-Shaped Array Film and Its Enhanced Photocurrent by Mg ₂₊ Doping. <i>Advanced Functional Materials</i> , 2015, 25, 3256-3263.	7.8	13
144	(Ga,Mn,As) compounds grown on semi-insulating GaAs with mass-analyzed low energy dual ion beam deposition. <i>Journal of Crystal Growth</i> , 2002, 234, 359-363.	0.7	12

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145	Improved ferroelectric properties of Pb(Zr _{0.52} Ti _{0.48})O ₃ thin film on single crystal diamond using CaF ₂ layer. Applied Physics Letters, 2010, 96, .	1.5	12
146	Amorphous silicon diamond based heterojunctions with high rectification ratio. Journal of Non-Crystalline Solids, 2012, 358, 2110-2113.	1.5	12
147	Localized mid-gap-states limited reverse current of diamond Schottky diodes. Journal of Applied Physics, 2012, 111, 104503.	1.1	12
148	Silicon-compatible Mg ₂ Si/Si n-p photodiodes with high room temperature infrared responsivity. Materials Science in Semiconductor Processing, 2019, 102, 104577.	1.9	12
149	Anomalous temperature dependence of photoluminescence from a-C:H film deposited by energetic hydrocarbon ion beam. Solid State Communications, 2002, 121, 287-290.	0.9	11
150	Nucleation of diamond by pure carbon ion bombardment—a transmission electron microscopy study. Applied Physics Letters, 2005, 87, 063103.	1.5	11
151	Piezoelectric Pb(Zr _{0.52} Ti _{0.48})O ₃ thin films on single crystal diamond: Structural, electrical, dielectric, and field-effect-transistor properties. Journal of Applied Physics, 2010, 107, 024101.	1.1	11
152	Interfacial electronic band alignment of Ta ₂ O ₅ /hydrogen-terminated diamond heterojunction determined by X-ray photoelectron spectroscopy. Diamond and Related Materials, 2013, 38, 24-27.	1.8	11
153	Reducing energy dissipation and surface effect of diamond nanoelectromechanical resonators by annealing in oxygen ambient. Carbon, 2017, 124, 281-287.	5.4	11
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