

# Tae-Yeon Seong

## List of Publications by Year in descending order

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253  
papers

6,118  
citations

71102

41  
h-index

91884

69  
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256  
all docs

256  
docs citations

256  
times ranked

4771  
citing authors

#	ARTICLE	IF	CITATIONS
1	The emergence and prospects of deep-ultraviolet light-emitting diode technologies. <i>Nature Photonics</i> , 2019, 13, 233-244.	31.4	800
2	Growth and characterization of hypothetical zinc-blende ZnO films on GaAs(001) substrates with ZnS buffer layers. <i>Applied Physics Letters</i> , 2000, 76, 550-552.	3.3	188
3	Low-resistance Pt/Ni/Au ohmic contacts to p-type GaN. <i>Applied Physics Letters</i> , 1999, 74, 70-72.	3.3	153
4	Ohmic-Contact Technology for GaN-Based Light-Emitting Diodes: Role of P-Type Contact. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 42-59.	3.0	140
5	Light output performance of red AlGaInP-based light emitting diodes with different chip geometries and structures. <i>Optics Express</i> , 2018, 26, 11194.	3.4	135
6	Plasma damage-free sputtering of indium tin oxide cathode layers for top-emitting organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 86, 183503.	3.3	122
7	Formation of low resistance Pt ohmic contacts to p-type GaN using two-step surface treatment. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 2667.	1.6	117
8	Ohmic and degradation mechanisms of Ag contacts on p-type GaN. <i>Applied Physics Letters</i> , 2005, 86, 062104.	3.3	115
9	Micro-LED Light Emitting Diode: From Chips to Applications. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000133.	8.7	108
10	Fabrication of ZnO quantum dots embedded in an amorphous oxide layer. <i>Applied Physics Letters</i> , 2004, 84, 3810-3812.	3.3	104
11	Electrical characteristics of ZrOxNy prepared by NH3 annealing of ZrO2. <i>Applied Physics Letters</i> , 2001, 79, 245-247.	3.3	91
12	Highly low resistance and transparent Ni/ZnO ohmic contacts to p-type GaN. <i>Applied Physics Letters</i> , 2003, 83, 479-481.	3.3	89
13	Design of high-efficiency GaN-based light emitting diodes with vertical injection geometry. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	83
14	Review-Group III-Nitride-Based Ultraviolet Light-Emitting Diodes: Ways of Increasing External Quantum Efficiency. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, Q42-Q52.	1.8	81
15	Effects of thermal and hydrogen treatment on indium segregation in InGaIn/GaN multiple quantum wells. <i>Journal of Applied Physics</i> , 2001, 89, 6514-6518.	2.5	80
16	Electronic transport mechanisms of nonalloyed Pt Ohmic contacts to p-GaN. <i>Applied Physics Letters</i> , 2000, 76, 2743-2745.	3.3	71
17	Effect of a Mo back contact on Na diffusion in CIGS thin film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 58-63.	8.1	69
18	Mechanisms for the reduction of the Schottky barrier heights of high-quality nonalloyed Pt contacts on surface-treated p-GaN. <i>Journal of Applied Physics</i> , 2000, 88, 3064-3066.	2.5	68

#	ARTICLE	IF	CITATIONS
19	Low Resistance and Reflective Mg-Doped Indium Oxide Ag Ohmic Contacts for Flip-Chip Light-Emitting Diodes. IEEE Photonics Technology Letters, 2004, 16, 1450-1452.	2.5	65
20	Electrical characteristics of contacts to thin film N-polar n-type GaN. Applied Physics Letters, 2008, 93, .	3.3	65
21	Growth of high-quality GaN on Si(111) substrate by ultrahigh vacuum chemical vapor deposition. Applied Physics Letters, 2001, 78, 2858-2860.	3.3	64
22	Schottky barrier characteristics of Pt contacts to n-type InGaN. Journal of Applied Physics, 2006, 99, 073704.	2.5	63
23	Metallization scheme for highly low-resistance, transparent, and thermally stable Ohmic contacts to p-GaN. Applied Physics Letters, 2000, 76, 2898-2900.	3.3	61
24	Electrical properties of CIGS/Mo junctions as a function of MoSe <sub>2</sub> orientation and Na doping. Progress in Photovoltaics: Research and Applications, 2014, 22, 90-96.	8.1	61
25	Exploring dopant effects in stannic oxide nanoparticles for CO <sub>2</sub> electro-reduction to formate. Nature Communications, 2022, 13, 2205.	12.8	61
26	Formation of low resistance and transparent ohmic contacts to p-type GaN using Ni-Mg solid solution. Applied Physics Letters, 2003, 83, 3513-3515.	3.3	59
27	The effects of film thickness on the electrical, optical, and structural properties of cylindrical, rotating, magnetron-sputtered ITO films. Applied Surface Science, 2018, 440, 1211-1218.	6.1	59
28	TiN/Al Ohmic contacts to N-face n-type GaN for high-performance vertical light-emitting diodes. Applied Physics Letters, 2009, 94, .	3.3	58
29	Flexible ITO films with atomically flat surfaces for high performance flexible perovskite solar cells. Nanoscale, 2018, 10, 20587-20598.	5.6	58
30	Improvement of the luminous intensity of light-emitting diodes by using highly transparent Ag-indium tin oxide p-type ohmic contacts. IEEE Photonics Technology Letters, 2005, 17, 291-293.	2.5	57
31	High-Reflectance and Thermally Stable AgCu Alloy p-Type Reflectors for GaN-Based Light-Emitting Diodes. IEEE Photonics Technology Letters, 2007, 19, 336-338.	2.5	57
32	Low-resistance and highly-reflective Zn-Ni solid solution/Ag ohmic contacts for flip-chip light-emitting diodes. Applied Physics Letters, 2003, 83, 4990-4992.	3.3	56
33	Highly transparent Ag-SnO <sub>2</sub> ohmic contact to p-type GaN for ultraviolet light-emitting diodes. Applied Physics Letters, 2004, 85, 6374-6376.	3.3	56
34	Improvement of the light output of InGaN-based light-emitting diodes using Cu-doped indium oxide/indium tin oxide p-type electrodes. Applied Physics Letters, 2005, 86, 213505.	3.3	56
35	Enhancement of phase separation in the InGaN layer for self-assembled In-rich quantum dots. Applied Physics Letters, 2005, 87, 061906.	3.3	55
36	Cu-doped indium oxide Ag ohmic contacts for high-power flip-chip light-emitting diodes. Applied Physics Letters, 2005, 86, 062103.	3.3	52

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37	Enhancement of the light output of GaN-based ultraviolet light-emitting diodes by a one-dimensional nanopatterning process. <i>Applied Physics Letters</i> , 2006, 88, 103505.	3.3	52
38	Growth behavior of carbon nanotubes on Fe-deposited (001) Si substrates. <i>Applied Physics Letters</i> , 2001, 78, 3130-3132.	3.3	51
39	Enhancement of the light output of GaN-based light-emitting diodes with surface-patterned ITO electrodes by maskless wet-etching. <i>Solid-State Electronics</i> , 2007, 51, 793-796.	1.4	51
40	Co(OH) <sub>2</sub> -combined carbon-nanotube array electrodes for high-performance micro-electrochemical capacitors. <i>Electrochemistry Communications</i> , 2008, 10, 1284-1287.	4.7	51
41	Metallization contacts to nonpolar a-plane n-type GaN. <i>Applied Physics Letters</i> , 2008, 93, 032105.	3.3	47
42	Highly flexible ZnO/Ag/ZnO conducting electrode for organic photonic devices. <i>Ceramics International</i> , 2015, 41, 7146-7150.	4.8	42
43	Optimized ITO/Ag/ITO multilayers as a current spreading layer to enhance the light output of ultraviolet light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2019, 776, 960-964.	5.5	41
44	Measurements of current spreading length and design of GaN-based light emitting diodes. <i>Applied Physics Letters</i> , 2007, 90, 063510.	3.3	39
45	Enhanced light extraction of GaN-based light-emitting diodes by using textured n-type GaN layers. <i>Applied Physics Letters</i> , 2007, 90, 161110.	3.3	38
46	Wafer-level fabrication of GaN-based vertical light-emitting diodes using a multi-functional bonding material system. <i>Semiconductor Science and Technology</i> , 2009, 24, 092001.	2.0	38
47	Dependence of optical and electrical properties on Ag thickness in TiO <sub>2</sub> /Ag/TiO <sub>2</sub> multilayer films for photovoltaic devices. <i>Ceramics International</i> , 2015, 41, 8059-8063.	4.8	37
48	Effects of sulfur passivation on Ti/Al ohmic contacts to n-type GaN using CH <sub>3</sub> CSNH <sub>2</sub> solution. <i>Applied Physics Letters</i> , 2002, 80, 3129-3131.	3.3	36
49	Epitaxial growth of Cr <sub>2</sub> O <sub>3</sub> thin film on Al <sub>2</sub> O <sub>3</sub> (0001) substrate by radio frequency magnetron sputtering combined with rapid-thermal annealing. <i>Thin Solid Films</i> , 2010, 518, 4813-4816.	1.8	35
50	Al-doped ZnO/Ag/Al-doped ZnO multilayer films with a high figure of merit. <i>Ceramics International</i> , 2015, 41, 14805-14810.	4.8	35
51	Improving the Leakage Characteristics and Efficiency of GaN-based Micro-Light-Emitting Diode with Optimized Passivation. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 055001.	1.8	35
52	Formation of vanadium-based ohmic contacts to n-GaN. <i>Applied Physics Letters</i> , 2003, 83, 1154-1156.	3.3	33
53	Light-output enhancement of GaN-based light-emitting diodes by using hole-patterned transparent indium tin oxide electrodes. <i>Journal of Applied Physics</i> , 2005, 98, 076107.	2.5	33
54	Realization of an Artificial Visual Nervous System using an Integrated Optoelectronic Device Array. <i>Advanced Materials</i> , 2021, 33, e2105485.	21.0	33

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55	Consideration of the Actual Current-Spreading Length of GaN-Based Light-Emitting Diodes for High-Efficiency Design. <i>IEEE Journal of Quantum Electronics</i> , 2007, 43, 625-632.	1.9	32
56	Superhydrophilic Transparent Titania Films by Supersonic Aerosol Deposition. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1596-1601.	3.8	31
57	Realization of highly transparent and low resistance TiO <sub>2</sub> /Ag/TiO <sub>2</sub> conducting electrode for optoelectronic devices. <i>Ceramics International</i> , 2015, 41, 3064-3068.	4.8	31
58	Highly flexible Al-doped ZnO/Ag/Al-doped ZnO multilayer films deposited on PET substrates at room temperature. <i>Ceramics International</i> , 2016, 42, 3473-3478.	4.8	31
59	High-quality nonalloyed rhodium-based ohmic contacts to p-type GaN. <i>Applied Physics Letters</i> , 2003, 83, 2372-2374.	3.3	30
60	Low Resistance and High Reflectance Pt/Rh Contacts to p-Type GaN for GaN-Based Flip Chip Light-Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2005, 152, G92.	2.9	30
61	Morphology and defect structures of GaSb islands on GaAs grown by metalorganic vapor phase epitaxy. <i>Journal of Electronic Materials</i> , 1998, 27, 466-471.	2.2	29
62	Preparation and characterization of electro-spun RuO <sub>2</sub> -Ag <sub>2</sub> O composite nanowires for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4336-4340.	5.5	29
63	Combined effects of V pits and chip size on the electrical and optical properties of green InGaN-based light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2019, 796, 146-152.	5.5	28
64	Control of the preferred orientations of Cu(In,Ga)Se <sub>2</sub> films and the photovoltaic conversion efficiency using a surface-functionalized molybdenum back contact. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 69-76.	8.1	27
65	Leakage current origins and passivation effect of GaN-based light emitting diodes fabricated with Ag p-contacts. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	26
66	Realizing the Potential of ZnO with Alternative Non-Metallic Co-Dopants as Electrode Materials for Small Molecule Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2013, 23, 3645-3652.	14.9	26
67	InGaN-Based Light-Emitting Diodes Grown on a Micro/Nanoscale Hybrid Patterned Sapphire Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34520-34529.	8.0	25
68	Highly Transparent and Low-Resistance Indium-Free ZnO/Ag/ZnO Multilayer Electrodes for Organic Photovoltaic Devices. <i>Journal of Electronic Materials</i> , 2015, 44, 3967-3972.	2.2	24
69	Control of refractive index by annealing to achieve high figure of merit for TiO <sub>2</sub> /Ag/TiO <sub>2</sub> multilayer films. <i>Ceramics International</i> , 2016, 42, 14071-14076.	4.8	24
70	Transparent Conductive ITO/Ag/ITO Electrode Deposited at Room Temperature for Organic Solar Cells. <i>Journal of Electronic Materials</i> , 2017, 46, 306-311.	2.2	24
71	Low-resistance Al-based reflectors for high-power GaN-based flip-chip light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 86, 133503.	3.3	23
72	Three-dimensional nanostructured carbon nanotube array/PtRu nanoparticle electrodes for micro-fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 635-638.	4.7	23

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73	All-Solution Processed Multicolor Patterning Technique of Perovskite Nanocrystal for Color Pixel Array and Flexible Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2020, 8, 2000501.	7.3	23
74	High-performance GaN-based light emitting diodes grown on 8-inch Si substrate by using a combined low-temperature and high-temperature-grown AlN buffer layer. <i>Journal of Alloys and Compounds</i> , 2018, 732, 630-636.	5.5	22
75	Ultrahigh transparency of Ni/Au ohmic contacts to surface-treated p-type GaN. <i>Journal of Applied Physics</i> , 2000, 88, 5490-5492.	2.5	21
76	Highly reliable Ag/Zn/Ag ohmic reflector for high-power GaN-based vertical light-emitting diode. <i>Optics Express</i> , 2012, 20, 19194.	3.4	21
77	Patterning All-Inorganic Halide Perovskite with Adjustable Phase for High-Resolution Color Filter and Photodetector Arrays. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
78	Light extraction enhancement of GaN-based light emitting diodes using MgF <sub>2</sub> /Al omnidirectional reflectors. <i>Journal of Applied Physics</i> , 2008, 104, 053111.	2.5	20
79	Formation of low-resistance Ohmic contacts to N-face n-GaN for high-power GaN-based vertical light-emitting diodes. <i>Applied Physics Letters</i> , 2010, 97, 092103.	3.3	20
80	Ga Ordering and Electrical Conductivity in Nanotwin and Superlattice-Structured Ga-Doped ZnO. <i>Crystal Growth and Design</i> , 2012, 12, 1167-1172.	3.0	20
81	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis. <i>Advanced Materials</i> , 2022, 34, e2201608.	21.0	20
82	Effects of V/III ratio on ordering and antiphase boundaries in GaInP layers. <i>Applied Physics Letters</i> , 1997, 70, 3137-3139.	3.3	19
83	Design of near-unity transmittance dielectric/Ag/ITO electrodes for GaN-based light-emitting diodes. <i>Current Applied Physics</i> , 2015, 15, 833-838.	2.4	19
84	Sputtering-deposited amorphous SrVO <sub>x</sub> -based memristor for use in neuromorphic computing. <i>Scientific Reports</i> , 2020, 10, 5761.	3.3	19
85	GUIDED NANOSTRUCTURES USING ANODIZED ALUMINUM OXIDE TEMPLATES. <i>Nano</i> , 2011, 06, 541-555.	1.0	18
86	Optimization of transmittance and resistance of indium gallium zinc oxide/Ag/indium gallium zinc oxide multilayer electrodes for photovoltaic devices. <i>Current Applied Physics</i> , 2015, 15, 452-455.	2.4	18
87	Optimizing n-type contact design and chip size for high-performance indium gallium nitride/gallium nitride-based thin-film vertical light-emitting diode. <i>Materials Science in Semiconductor Processing</i> , 2015, 31, 153-159.	4.0	18
88	Low turn-on voltage and series resistance of polarization-induced InGaIn-GaN LEDs by using p-InGaIn/p-GaN superlattice. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1536-1538.	2.5	17
89	Plasmonic Au nanoparticles on 8-nm TiO <sub>2</sub> nanotubes for enhanced photocatalytic water splitting. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	2.0	17
90	ITO-free inverted organic solar cells fabricated with transparent and low resistance ZnO/Ag/ZnO multilayer electrode. <i>Current Applied Physics</i> , 2015, 15, 829-832.	2.4	17

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91	Lateral composition modulation in GaP/InP short-period superlattices grown by solid source molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2001, 90, 5086-5089.	2.5	16
92	A study of stress-induced p/sup +//n salicided junction leakage failure and optimized process conditions for sub-0.15-1/4m CMOS technology. <i>IEEE Transactions on Electron Devices</i> , 2002, 49, 1985-1992.	3.0	16
93	Low-resistance and transparent ohmic contacts to p-type GaN using Znâ€Ni solid solution/Au scheme. <i>Applied Physics Letters</i> , 2004, 84, 4663-4665.	3.3	16
94	Effect of the Mo back contact microstructure on the preferred orientation of CIGS thin films. , 2010, , .		16
95	Highly self-assembled nanotubular aluminum oxide by hard anodization. <i>Journal of Materials Research</i> , 2011, 26, 186-193.	2.6	16
96	Tuning Hydrophobicity with Honeycomb Surface Structure and Hydrophilicity with <scp><scp>CF</scp></scp><sub>4</sub> Plasma Etching for Aerosolâ€Deposited Titania Films. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3955-3961.	3.8	16
97	Interplay of sidewall damage and light extraction efficiency of micro-LEDs. <i>Optics Letters</i> , 2022, 47, 2250.	3.3	15
98	Effect of an In layer on the thermal stability of Ag reflector for vertical GaN-based light-emitting diodes. <i>Superlattices and Microstructures</i> , 2013, 56, 77-85.	3.1	14
99	Optical, electrical, and structural properties of ZrON/Ag/ZrON multilayer transparent conductor for organic photovoltaics application. <i>Superlattices and Microstructures</i> , 2013, 62, 119-127.	3.1	14
100	Investigation of Fermi level pinning at semipolar (11â€22) p-type GaN surfaces. <i>Superlattices and Microstructures</i> , 2015, 77, 76-81.	3.1	14
101	Optimization of tunable guided-mode resonance filter based on refractive index modulation of graphene. <i>Scientific Reports</i> , 2019, 9, 19951.	3.3	14
102	Interfacial reaction effect on the ohmic properties of a Pt/Pd/Au contact on p-type GaN. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 1101-1104.	2.1	13
103	Low resistance and transparent Niâ€La solid solution/Au ohmic contacts to p-type GaN. <i>Applied Physics Letters</i> , 2004, 84, 1504-1506.	3.3	13
104	Pt/Indium Tin Oxide Ohmic Contacts to Arsenic-Doped p-Type ZnO Layers. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, G167.	2.2	13
105	Possible Ohmic Mechanisms of Ag/Indium Tin Oxide p-Type Contacts for High-Brightness GaN-Based Light Emitting Diodes. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, H36.	2.2	13
106	Highly thermally stable Pd/Zn/Ag ohmic contact to Ga-face p-type GaN. <i>Journal of Alloys and Compounds</i> , 2014, 588, 327-331.	5.5	13
107	Embedment of nano-sized Ag layer into Ag-doped In <sub>2</sub> O <sub>3</sub> films for use as highly transparent and conductive anode in organic solar cells. <i>Applied Surface Science</i> , 2015, 347, 88-95.	6.1	13
108	Ag nanowire-based electrodes for improving the output power of ultraviolet AlGaIn-based light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2017, 703, 198-203.	5.5	13

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109	Low-resistance and thermally stable Pd/Ru ohmic contacts to p-type GaN. <i>Journal of Electronic Materials</i> , 2002, 31, 903-906.	2.2	12
110	Electrical and structural properties of low-resistance Ti/Al/Re/Au ohmic contacts to n-type GaN. <i>Journal of Electronic Materials</i> , 2004, 33, 395-399.	2.2	12
111	Formation of low-resistance and transparent indium tin oxide ohmic contact for high-brightness GaN-based light-emitting diodes using a Sn-Ag interlayer. <i>Materials Science in Semiconductor Processing</i> , 2007, 10, 211-214.	4.0	12
112	Co-sputtering growth and electro-oxidation properties of Pt-CuO nanocomposites for direct methanol thin film fuel cells. <i>Journal of Alloys and Compounds</i> , 2009, 471, L39-L42.	5.5	12
113	Improved efficiency of InGaN/GaN-based multiple quantum well solar cells by reducing contact resistance. <i>Superlattices and Microstructures</i> , 2012, 52, 299-305.	3.1	12
114	Design of mid-infrared filter array based on plasmonic metal nanodiscs array and its application to on-chip spectrometer. <i>Scientific Reports</i> , 2021, 11, 12218.	3.3	12
115	Effects of Current, Temperature, and Chip Size on the Performance of AlGaInP-Based Red Micro-Light-Emitting Diodes with Different Contact Schemes. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 095001.	1.8	12
116	Abnormal junction profile of silicided p <sup>+</sup> /n shallow junctions: a leakage mechanism. <i>IEEE Electron Device Letters</i> , 2002, 23, 188-190.	3.9	11
117	Enhanced Light Output of GaN-Based Light-Emitting Diodes by Using Omnidirectional Sidewall Reflectors. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1562-1564.	2.5	11
118	Recovery of dry etch-induced damage of nano-patterned GaN-based light-emitting diodes by rapid-thermal-annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 881-886.	1.8	11
119	Flexible and transparent TiO <sub>2</sub> /Ag/ITO multilayer electrodes on PET substrates for organic photonic devices. <i>Journal of Materials Research</i> , 2015, 30, 1593-1598.	2.6	11
120	Ultrafast chemical lithiation of single crystalline silicon nanowires: in situ characterization and first principles modeling. <i>RSC Advances</i> , 2015, 5, 17438-17443.	3.6	11
121	Ag-Pd-Cu alloy reflector to improve the opto-electrical performance and electromigration resistance of near ultraviolet GaN-based light-emitting diode. <i>Journal of Alloys and Compounds</i> , 2019, 800, 512-517.	5.5	11
122	Surface passivation of light emitting diodes: From nano-size to conventional mesa-etched devices. <i>Surfaces and Interfaces</i> , 2020, 21, 100765.	3.0	11
123	Improved Light Output of AlGaInP-Based Micro-Light Emitting Diode Using Distributed Bragg Reflector. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 438-441.	2.5	11
124	Nano-dot addition effect on the electrical properties of Ni contacts to p-type GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2524-2527.	0.8	10
125	Characteristics of Pt Schottky contacts on hydrogen peroxide-treated n-type ZnO(0001) layers. <i>Superlattices and Microstructures</i> , 2006, 39, 211-217.	3.1	10
126	Diffuse diffracted features and ordered domain structures in GaInP layers grown by organometallic vapor phase epitaxy. <i>Journal of Electronic Materials</i> , 1998, 27, 1117-1123.	2.2	9



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127	Ir/Ag reflector for high-performance GaN-based near UV light emitting diodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 133, 26-29.	3.5	9
128	Improved light output power of GaN-based flip-chip light-emitting diode through SiO <sub>2</sub> cones. <i>Electronic Materials Letters</i> , 2012, 8, 549-552.	2.2	9
129	Delayed &lt;math>\pi</math> texture for improving the thermal stability of Ag reflectors for high-performance GaN-based light-emitting diodes. <i>Scripta Materialia</i> , 2014, 80, 5-8.	5.2	9
130	Improved angular color uniformity and hydrothermal reliability of phosphor-converted white light-emitting diodes by using phosphor sedimentation. <i>Optics Express</i> , 2018, 26, 28634.	3.4	9
131	Structural and optical properties of GaIn $\lambda^x$ P layers grown by chemical beam epitaxy. <i>Journal of Electronic Materials</i> , 1998, 27, 409-413.	2.2	8
132	Charge-discharge induced phase transformation of RuO <sub>2</sub> electrode for thin film supercapacitor. <i>Metals and Materials International</i> , 2003, 9, 239-246.	3.4	8
133	High-Efficiency GaN-Based Light-Emitting Diodes Fabricated With Metallic Hybrid Reflectors. <i>IEEE Electron Device Letters</i> , 2008, 29, 582-584.	3.9	8
134	Improved electrical and thermal properties of Ag contacts for GaN-based flip-chip light-emitting diodes by using a NiZn alloy capping layer. <i>Superlattices and Microstructures</i> , 2009, 46, 578-584.	3.1	8
135	Nanostructure Ag dots for improving thermal stability of Ag reflector for GaN-based light-emitting diodes. <i>Applied Physics Letters</i> , 2012, 101, 021115.	3.3	8
136	Morphological stability of Ag reflector for high-power GaN-based vertical light-emitting diode by addition of Ni layer. <i>Superlattices and Microstructures</i> , 2014, 73, 342-349.	3.1	8
137	Formation of low resistance Ti/Al-based ohmic contacts on (11 $\lambda^2$ ) semipolar n-type GaN. <i>Journal of Alloys and Compounds</i> , 2015, 652, 167-171.	5.5	8
138	Formation of Flexible and Transparent Indium Gallium Zinc Oxide/Ag/Indium Gallium Zinc Oxide Multilayer Film. <i>Journal of Electronic Materials</i> , 2016, 45, 4265-4269.	2.2	8
139	An Optically Flat Conductive Outcoupler Using Core/Shell Ag/ZnO Nanochurros. <i>Small</i> , 2018, 14, e1800056.	10.0	8
140	Combined effects of oxygen pressures and RF powers on the electrical characteristics of ITO-based multilayer transparent electrodes. <i>Vacuum</i> , 2019, 169, 108871.	3.5	8
141	Electrical Characteristics of Metal Contacts to Laser-Irradiated N-Polar n-Type GaN. <i>IEEE Electron Device Letters</i> , 2009, 30, 319-321.	3.9	7
142	Using agglomerated Ag grid to improve the light output of near ultraviolet AlGaIn-based light-emitting diode. <i>Microelectronic Engineering</i> , 2017, 169, 29-33.	2.4	7
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