Jichun Ye

List of Publications by Citations

Source: https://exaly.com/author-pdf/4263778/jichun-ye-publications-by-citations.pdf

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147
papers2,783
citations30
h-index45
g-index154
ext. papers3,413
ext. citations8
avg, IF5.24
L-index

#	Paper	IF	Citations
147	Large-Area Nanosphere Self-Assembly by a Micro-Propulsive Injection Method for High Throughput Periodic Surface Nanotexturing. <i>Nano Letters</i> , 2015 , 15, 4591-8	11.5	158
146	Dry sliding friction and wear properties of B4C particulate-reinforced Al-5083 matrix composites. <i>Wear</i> , 2008 , 264, 555-561	3.5	120
145	Realization of 13.6% Efficiency on 20 h Thick Si/Organic Hybrid Heterojunction Solar Cells via Advanced Nanotexturing and Surface Recombination Suppression. <i>ACS Nano</i> , 2015 , 9, 6522-31	16.7	107
144	Silicon/Organic Hybrid Solar Cells with 16.2% Efficiency and Improved Stability by Formation of Conformal Heterojunction Coating and Moisture-Resistant Capping Layer. <i>Advanced Materials</i> , 2017 , 29, 1606321	24	104
143	Improvement of the SiOx passivation layer for high-efficiency Si/PEDOT:PSS heterojunction solar cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 16027-34	9.5	96
142	Unambiguously Enhanced Ultraviolet Luminescence of AlGaN Wavy Quantum Well Structures Grown on Large Misoriented Sapphire Substrate. <i>Advanced Functional Materials</i> , 2019 , 29, 1905445	15.6	85
141	Dopant-Free and Carrier-Selective Heterocontacts for Silicon Solar Cells: Recent Advances and Perspectives. <i>Advanced Science</i> , 2018 , 5, 1700547	13.6	70
140	High-Efficiency Silicon/Organic Heterojunction Solar Cells with Improved Junction Quality and Interface Passivation. <i>ACS Nano</i> , 2016 , 10, 11525-11531	16.7	65
139	Tuning of the Contact Properties for High-Efficiency Si/PEDOT:PSS Heterojunction Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 556-562	20.1	64
138	Enhanced Electro-Optical Properties of Nanocone/Nanopillar Dual-Structured Arrays for Ultrathin Silicon/Organic Hybrid Solar Cell Applications. <i>Advanced Energy Materials</i> , 2016 , 6, 1501793	21.8	61
137	Heterojunction solar cells with asymmetrically carrier-selective contact structure of molybdenum-oxide/silicon/magnesium-oxide. <i>Solar Energy</i> , 2018 , 159, 704-709	6.8	55
136	Pseudocapacitance Induced Uniform Plating/Stripping of Li Metal Anode in Vertical Graphene Nanowalls. <i>Advanced Functional Materials</i> , 2018 , 28, 1805638	15.6	46
135	Over 16.7% Efficiency Organic-Silicon Heterojunction Solar Cells with Solution-Processed Dopant-Free Contacts for Both Polarities. <i>Advanced Functional Materials</i> , 2018 , 28, 1802192	15.6	44
134	Dual Functional Electron-Selective Contacts Based on Silicon Oxide/Magnesium: Tailoring Heterointerface Band Structures while Maintaining Surface Passivation. <i>Advanced Energy Materials</i> , 2018 , 8, 1702921	21.8	43
133	Optimizing ultrathin Ag films for high performance oxide-metal-oxide flexible transparent electrodes through surface energy modulation and template-stripping procedures. <i>Scientific Reports</i> , 2017 , 7, 44576	4.9	41
132	Junction Quality of SnO-Based Perovskite Solar Cells Investigated by Nanometer-Scale Electrical Potential Profiling. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 38373-38380	9.5	41
131	Improving Li anode performance by a porous 3D carbon paper host with plasma assisted sponge carbon coating. <i>Energy Storage Materials</i> , 2018 , 11, 47-56	19.4	41

(2018-2016)

130	Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 21770-5	9.5	41
129	Phosphate-Passivated SnO Electron Transport Layer for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Distriction (Control of the Control </i>	9.5	40
128	Efficient light trapping in low aspect-ratio honeycomb nanobowl surface texturing for crystalline silicon solar cell applications. <i>Applied Physics Letters</i> , 2013 , 103, 253105	3.4	40
127	Theoretical exploration towards high-efficiency tunnel oxide passivated carrier-selective contacts (TOPCon) solar cells. <i>Solar Energy</i> , 2017 , 155, 654-660	6.8	39
126	Engineering of hole-selective contact for high-performance perovskite solar cell featuring silver back-electrode. <i>Journal of Materials Science</i> , 2019 , 54, 7789-7797	4.3	37
125	Lateral-Polarity Structure of AlGaN Quantum Wells: A Promising Approach to Enhancing the Ultraviolet Luminescence. <i>Advanced Functional Materials</i> , 2018 , 28, 1802395	15.6	37
124	An industrially viable TOPCon structure with both ultra-thin SiOx and n+-poly-Si processed by PECVD for p-type c-Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109926	6.4	33
123	15% Efficiency Ultrathin Silicon Solar Cells with Fluorine-Doped Titanium Oxide and Chemically Tailored Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) as Asymmetric Heterocontact. <i>ACS Nano</i> , 2019 , 13, 6356-6362	16.7	33
122	Tunable THz Multiband Frequency-Selective Surface Based on Hybrid Metal@raphene Structures. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 1132-1137	2.6	32
121	16% efficient silicon/organic heterojunction solar cells using narrow band-gap conjugated polyelectrolytes based low resistance electron-selective contacts. <i>Nano Energy</i> , 2018 , 43, 117-123	17.1	31
120	Artificial Tactile Perceptual Neuron with Nociceptive and Pressure Decoding Abilities. <i>ACS Applied Materials & ACS Applied & ACS </i>	9.5	30
119	High-efficiency photon capturing in ultrathin silicon solar cells with front nanobowl texture and truncated-nanopyramid reflector. <i>Optics Letters</i> , 2015 , 40, 1077-80	3	30
118	Device physics of back-contact perovskite solar cells. <i>Energy and Environmental Science</i> , 2020 , 13, 1753-	13554	30
117	Ideal rear contact formed via employing a conjugated polymer for Si/PEDOT:PSS hybrid solar cells. <i>RSC Advances</i> , 2016 , 6, 16010-16017	3.7	29
116	Scattering effect of the high-index dielectric nanospheres for high performance hydrogenated amorphous silicon thin-film solar cells. <i>Scientific Reports</i> , 2016 , 6, 30503	4.9	27
115	Improved optical absorption in visible wavelength range for silicon solar cells via texturing with nanopyramid arrays. <i>Optics Express</i> , 2017 , 25, 10464-10472	3.3	26
114	Temperature and Humidity Stable Alkali/Alkaline-Earth Metal Carbonates as Electron Heterocontacts for Silicon Photovoltaics. <i>Advanced Energy Materials</i> , 2018 , 8, 1800743	21.8	25
113	Heterojunction Hybrid Solar Cells by Formation of Conformal Contacts between PEDOT:PSS and Periodic Silicon Nanopyramid Arrays. <i>Small</i> , 2018 , 14, e1704493	11	24

112	Modulation-doped ZnO as high performance electron-selective layer for efficient silicon heterojunction solar cells. <i>Nano Energy</i> , 2018 , 54, 99-105	17.1	24
111	Activating and optimizing evaporation-processed magnesium oxide passivating contact for silicon solar cells. <i>Nano Energy</i> , 2019 , 62, 181-188	17.1	23
110	Efficient and controllable growth of vertically oriented graphene nanosheets by mesoplasma chemical vapor deposition. <i>Carbon</i> , 2019 , 147, 341-347	10.4	23
109	SnO2 surface defects tuned by (NH4)2S for high-efficiency perovskite solar cells. <i>Solar Energy</i> , 2019 , 194, 541-547	6.8	23
108	Broadband and wide-angle light harvesting by ultra-thin silicon solar cells with partially embedded dielectric spheres. <i>Optics Letters</i> , 2016 , 41, 1329-32	3	22
107	Principles of dopant-free electron-selective contacts based on tunnel oxide/low work-function metal stacks and their applications in heterojunction solar cells. <i>Nano Energy</i> , 2018 , 46, 133-140	17.1	21
106	Tuning back contact property via artificial interface dipoles in Si/organic hybrid solar cells. <i>Applied Physics Letters</i> , 2016 , 109, 043901	3.4	21
105	Wafer-Scale Integration of Inverted Nanopyramid Arrays for Advanced Light Trapping in Crystalline Silicon Thin Film Solar Cells. <i>Nanoscale Research Letters</i> , 2016 , 11, 194	5	21
104	Improvement of Surface Passivation of Tunnel Oxide Passivated Contact Structure by Thermal Annealing in Mixture of Water Vapor and Nitrogen Environment. <i>Solar Rrl</i> , 2019 , 3, 1900105	7.1	20
103	Optical design and optimization for back-contact perovskite solar cells. <i>Solar Energy</i> , 2020 , 201, 84-91	6.8	20
102	Achieving a Record Fill Factor for Silicon Drganic Hybrid Heterojunction Solar Cells by Using a Full-Area Metal Polymer Nanocomposite Top Electrode. <i>Advanced Functional Materials</i> , 2018 , 28, 17054	12 ¹ 5 ^{.6}	20
101	An Expanded Cox and Strack Method for Precise Extraction of Specific Contact Resistance of Transition Metal Oxide/n-Silicon Heterojunction. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1113-1120	3.7	19
100	Fully Coupled Multiphysics Simulation of Crosstalk Effect in Bipolar Resistive Random Access Memory. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3647-3653	2.9	19
99	Excellent Passivation of Silicon Surfaces by Thin Films of Electron-Beam-Processed Titanium Dioxide. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 1551-1555	3.7	18
98	Optoelectronic Evaluation and Loss Analysis of PEDOT:PSS/Si Hybrid Heterojunction Solar Cells. <i>Nanoscale Research Letters</i> , 2017 , 12, 26	5	17
97	High-Performance Black Multicrystalline Silicon Solar Cells by a Highly Simplified Metal-Catalyzed Chemical Etching Method. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 888-893	3.7	17
96	Realization of interdigitated back contact silicon solar cells by using dopant-free heterocontacts for both polarities. <i>Nano Energy</i> , 2018 , 50, 777-784	17.1	17
95	Defect engineering of oxygen vacancies in SnOx electron transporting layer for perovskite solar cells. <i>Materials Today Energy</i> , 2019 , 12, 389-397	7	16

(2020-2019)

94	On the passivation mechanism of poly-silicon and thin silicon oxide on crystal silicon wafers. <i>Solar Energy</i> , 2019 , 194, 18-26	6.8	16	
93	The electrochemical self-assembly of hierarchical dendritic Bi2Se3 nanostructures. <i>CrystEngComm</i> , 2014 , 16, 2823	3.3	16	
92	A low-temperature TiO2/SnO2 electron transport layer for high-performance planar perovskite solar cells. <i>Science China Materials</i> , 2020 , 63, 207-215	7.1	16	
91	Charge-transfer induced multifunctional BCP:Ag complexes for semi-transparent perovskite solar cells with a record fill factor of 80.1%. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12009-12018	13	16	
90	Illumination-Induced Hole Doping for Performance Improvement of Graphene/n-Silicon Solar Cells with P3HT Interlayer. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600516	6.4	15	
89	Comparison of different types of interfacial oxides on hole-selective p+-poly-Si passivated contacts for high-efficiency c-Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 210, 110487	6.4	15	
88	Ultrasensitive micro/nanocrack-based graphene nanowall strain sensors derived from the substrateß Poissonß ratio effect. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10310-10317	13	15	
87	TiO2 Films from the Low-Temperature Oxidation of Ti as Passivating-Contact Layers for Si Heterojunction Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700154	7.1	15	
86	Double-Layered PEDOT:PSS Films Inducing Strong Inversion Layers in Organic/Silicon Hybrid Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2874-2881	6.1	15	
85	Computational analysis of a high-efficiency tunnel oxide passivated contact (TOPCon) solar cell with a low-work-function electron-selective-collection layer. <i>Solar Energy</i> , 2018 , 170, 780-787	6.8	15	
84	ZnO-Modified Anode for High-Performance SnO2-Based Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7062-7069	6.1	14	
83	Titanium Nitride Electron-Conductive Contact for Silicon Solar Cells By Radio Frequency Sputtering from a TiN Target. <i>ACS Applied Materials & Englishing Sylver Solar</i> , 12, 26177-26183	9.5	14	
82	Opto-electric investigation for Si/organic heterojunction single-nanowire solar cells. <i>Scientific Reports</i> , 2017 , 7, 14575	4.9	14	
81	Numerical exploration for structure design and free-energy loss analysis of the high-efficiency polysilicon passivated-contact p-type silicon solar cell. <i>Solar Energy</i> , 2019 , 178, 249-256	6.8	14	
80	Deep UV Laser at 249 nm Based on GaN Quantum Wells. ACS Photonics, 2019, 6, 2387-2391	6.3	13	
79	Suppression of surface and Auger recombination by formation and control of radial junction in silicon microwire solar cells. <i>Nano Energy</i> , 2019 , 58, 817-824	17.1	13	
78	Enhancing light coupling and emission efficiencies of AlGaN thin film and AlGaN/GaN multiple quantum wells with periodicity-wavelength matched nanostructure array. <i>Nanoscale</i> , 2017 , 9, 15477-15	4783	13	
77	In-situ phosphorus-doped polysilicon prepared using rapid-thermal anneal (RTA) and its application for polysilicon passivated-contact solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 210, 110518	6.4	11	

76	Enhanced Photoelectrical Response of Hydrogenated Amorphous Silicon Single-Nanowire Solar Cells by Front-Opening Crescent Design. <i>Nanoscale Research Letters</i> , 2016 , 11, 233	5	11
75	Electron-Selective ScandiumIIIunnel Oxide Passivated Contact for n-Type Silicon Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800071	7.1	11
74	Si/PEDOT:PSS Hybrid Solar Cells with Advanced Antireflection and Back Surface Field Designs. <i>Nanoscale Research Letters</i> , 2016 , 11, 356	5	11
73	Tuning photonic crystal fabrication by nanosphere lithography and surface treatment of AlGaN-based ultraviolet light-emitting diodes. <i>Materials and Design</i> , 2018 , 160, 661-670	8.1	11
72	Polarity Control of GaN and Realization of GaN Schottky Barrier Diode Based on Lateral Polarity Structure. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4424-4429	2.9	10
71	Large-scale nanostructured low-temperature solar selective absorber. <i>Optics Letters</i> , 2017 , 42, 1891-189	9 3 1	10
70	Photoinduced Field-Effect Passivation from Negative Carrier Accumulation for High-Efficiency Silicon/Organic Heterojunction Solar Cells. <i>ACS Nano</i> , 2017 , 11, 12687-12695	16.7	10
69	Three-dimensional band diagram in lateral polarity junction III-nitride heterostructures. <i>Optica</i> , 2019 , 6, 1058	8.6	10
68	The role of front-surface charges in interdigitated back contact silicon heterojunction solar cells. <i>Nano Energy</i> , 2019 , 61, 221-227	17.1	9
67	Light Trapping Enhancement in a Thin Film with 2D Conformal Periodic Hexagonal Arrays. Nanoscale Research Letters, 2015 , 10, 988	5	9
66	TiO hierarchical sub-wavelength microspheres for high efficiency dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32293-32301	3.6	9
65	Single peak deep ultraviolet emission and high internal quantum efficiency in AlGaN quantum wells grown on large miscut sapphire substrates. <i>Superlattices and Microstructures</i> , 2019 , 129, 20-27	2.8	8
64	Unlocking Voltage Potentials of Mixed-Halide Perovskite Solar Cells via Phase Segregation Suppression. <i>Advanced Functional Materials</i> ,2110698	15.6	8
63	Room-Temperature Sputtered Aluminum-Doped Zinc Oxide for Semitransparent Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9610-9617	6.1	8
62	Hard mask processing of 20% efficiency back-contacted silicon solar cells with dopant-free heterojunctions. <i>Nano Energy</i> , 2019 , 66, 104116	17.1	7
61	Thickness-modulated passivation properties of PEDOT:PSS layers over crystalline silicon wafers in back junction organic/silicon solar cells. <i>Nanotechnology</i> , 2019 , 30, 195401	3.4	7
60	In situ annealing and high-rate silicon epitaxy on porous silicon by mesoplasma process. <i>Applied Physics Express</i> , 2016 , 9, 055506	2.4	7
59	Strain modulated nanostructure patterned AlGaN-based deep ultraviolet multiple-quantum-wells for polarization control and light extraction efficiency enhancement. <i>Nanotechnology</i> , 2019 , 30, 435202	3.4	7

(2021-2022)

58	Fast-Response Amorphous GaDISolar-Blind Ultraviolet Photodetectors Tuned by a Polar AlN Template. <i>IEEE Electron Device Letters</i> , 2022 , 43, 68-71	4.4	7	
57	Dual-functional carbon-doped polysilicon films for passivating contact solar cells: regulating physical contacts while promoting photoelectrical properties. <i>Energy and Environmental Science</i> ,	35.4	7	
56	Design Principles of Silicon Heterojunction Solar Cells with Dopant-Free Interdigitated Back Contacts. <i>Solar Rrl</i> , 2019 , 3, 1900230	7.1	6	
55	Fabrication of highly ordered 2D metallic arrays with disc-in-hole binary nanostructures via a newly developed nanosphere lithography. <i>Nanotechnology</i> , 2017 , 28, 474001	3.4	6	
54	Polarity control and fabrication of lateral polarity structures of III-nitride thin films and devices: progress and prospects. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 483002	3	6	
53	Self-powered ultraviolet MSM photodetectors with high responsivity enabled by a lateral n/n homojunction from opposite polarity domains. <i>Optics Letters</i> , 2021 , 46, 3203-3206	3	6	
52	Enhanced perovskite crystallization by the polyvinylpyrrolidone additive for high efficiency solar cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3448-3454	5.8	6	
51	Performance enhancement of ultraviolet light emitting diode incorporating Al nanohole arrays. <i>Nanotechnology</i> , 2018 , 29, 45LT01	3.4	6	
50	Synergistic effect of TiO2 hierarchical submicrospheres for high performance dye-sensitized solar cells. <i>Science China Chemistry</i> , 2017 , 60, 822-828	7.9	5	
49	Polarity Control and Nanoscale Optical Characterization of AlGaN-Based Multiple-Quantum-Wells for Ultraviolet C Emitters. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5335-5342	5.6	5	
48	High-Performance Organic-Silicon Heterojunction Solar Cells by Using Al-Doped ZnO as Cathode Interlayer. <i>Solar Rrl</i> , 2018 , 2, 1700223	7.1	5	
47	Design Principles of Silicon Heterojunction Solar Cells with Dopant-Free Interdigitated Back Contacts. <i>Solar Rrl</i> , 2019 , 3, 1970104	7.1	5	
46	Design and simulation of perovskite solar cells with Gaussian structured gradient-index optics. <i>Optics Letters</i> , 2019 , 44, 4865-4868	3	5	
45	Back-contact structures for optoelectronic devices: Applications and perspectives. <i>Nano Energy</i> , 2020 , 78, 105362	17.1	5	
44	Annihilation and Regeneration of Defects in (112 2) Semipolar AlN via High-Temperature Annealing and MOVPE Regrowth. <i>Crystal Growth and Design</i> , 2021 , 21, 2911-2919	3.5	5	
43	Light-Promoted Electrostatic Adsorption of High-Density Lewis Base Monolayers as Passivating Electron-Selective Contacts. <i>Advanced Science</i> , 2021 , 8, 2003245	13.6	5	
42	NiOx-Seeded Self-Assembled Monolayers as Highly Hole-Selective Passivating Contacts for Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100663	7.1	5	
41	Charge-carrier dynamics for silicon oxide tunneling junctions mediated by local pinholes. <i>Cell Reports Physical Science</i> , 2021 , 2, 100667	6.1	5	

40	Development of in-situ high-voltage and high-temperature stressing capability on atomic force microscopy platform. <i>Solar Energy</i> , 2017 , 158, 746-752	6.8	4
39	Colloidal transfer printing method for periodically textured thin films in flexible media with greatly enhanced solar energy harvesting. <i>Materials Research Express</i> , 2015 , 2, 106402	1.7	4
38	Omnidirectional whispering-gallery-mode lasing in GaN microdisk obtained by selective area growth on sapphire substrate. <i>Optics Express</i> , 2019 , 27, 16195-16205	3.3	4
37	Numerical and experimental exploration towards a 26% efficiency rear-junction n-type silicon solar cell with front local-area and rear full-area polysilicon passivated contacts. <i>Solar Energy</i> , 2021 , 221, 1-9	6.8	4
36	Tunnel Oxide [Magnesium as Electron-Selective Passivated Contact for n-type Silicon Solar Cell. <i>Solar Rrl</i> , 2018 , 2, 1800241	7.1	4
35	Optical management of spacer layer of high-performance four-terminal perovskite/silicon tandem solar cells. <i>Solar Energy</i> , 2021 , 228, 226-234	6.8	4
34	Rapid crystallization of amorphous silicon films utilizing Ar-H2 mesoplasma annealing. <i>Journal of Crystal Growth</i> , 2018 , 486, 142-147	1.6	3
33	Rear-Sided Passivation by SiNx:H Dielectric Layer for Improved Si/PEDOT:PSS Hybrid Heterojunction Solar Cells. <i>Nanoscale Research Letters</i> , 2016 , 11, 310	5	3
32	Comparative study on luminescence extraction strategies of LED by large-scale fabrication of nanopillar and nanohole structures. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 24LT01	3	3
31	The role of transition region charges between dopant-free asymmetric heterocontacts in interdigitated back contact silicon heterojunction solar cells. <i>Solar Energy</i> , 2019 , 188, 1201-1208	6.8	3
30	Solution-processed and annealing-free zirconium acetylacetonate electron-selective contacts for efficient crystalline silicon solar cells. <i>Solar Energy</i> , 2021 , 215, 410-415	6.8	3
29	Carrier Dynamics of Nanopillar Textured Ultrathin Si Film/PEDOT:PSS Heterojunction Solar Cell. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 757-762	3.7	2
28	Optimization of Tunnel-Junction for Perovskite/Tunnel Oxide Passivated Contact (TOPCon) Tandem Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,2100562	1.6	2
27	ITO/SnO2 Interface Defect Passivation via Atomic Layer Deposited Al2O3 for High-Efficiency Perovskite Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,2100406	1.6	2
26	Demonstration of ohmic contact using \${{rm MoO}_{rm x}}/{rm Al}\$MoO/Al on p-GaN and the proposal of a reflective electrode for AlGaN-based DUV-LEDs. <i>Optics Letters</i> , 2020 , 45, 2427-2430	3	2
25	Evidence of Carrier Localization in AlGaN/GaN-Based UV Multiple Quantum Wells with Opposite Polarity Domains Provided by Nanoscale Imaging. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100035	2.5	2
24	Direct demonstration of carrier distribution and recombination within step-bunched UV-LEDs. <i>Photonics Research</i> , 2021 , 9, 764	6	2
23	Epitaxial Growth and Stoichiometry Control of Ultrawide Bandgap ZnGa2O4 Films by Pulsed Laser Deposition. <i>Coatings</i> , 2021 , 11, 782	2.9	2

(2020-2016)

22	Hybrid Solar Cells: Enhanced Electro-Optical Properties of Nanocone/Nanopillar Dual-Structured Arrays for Ultrathin Silicon/Organic Hybrid Solar Cell Applications (Adv. Energy Mater. 8/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	2
21	GaN based UV-LEDs with Ni/Au Nanomeshes as Transparent p-type Electrodes. <i>Physica Status Solidi</i> (A) Applications and Materials Science, 2019 , 216, 1800684	1.6	2
20	Passivating Contact with Phosphorus-Doped Polycrystalline Silicon-Nitride with an Excellent Implied Open-Circuit Voltage of 745 mV and Its Application in 23.88% Efficiency TOPCon Solar Cells. <i>Solar Rrl</i> ,2100644	7.1	2
19	Optical management for back-contact perovskite solar cells with diverse structure designs. <i>Solar Energy</i> , 2022 , 236, 100-106	6.8	2
18	Blistering-free polycrystalline silicon carbide films for double-sided passivating contact solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 238, 111586	6.4	1
17	Revealing the surface electronic structures of AlGaN deep-ultraviolet multiple quantum wells with lateral polarity domains. <i>Photonics Research</i> , 2020 , 8, 812	6	1
16	Significantly boosted external quantum efficiency of AlGaN-based DUV-LED utilizing thermal annealed Ni/Al reflective electrodes. <i>Applied Physics Express</i> , 2021 , 14, 072005	2.4	1
15	Self-powered ultraviolet photodiode based on lateral polarity structure GaN films. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2021 , 39, 052206	1.3	1
14	Rapid-Thermal-Annealing-Induced Passivation Degradation and Recovery of Polysilicon Passivated Contact with Czochralski and Cast Multicrystalline Silicon Substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100344	1.6	1
13	Structural and optical properties of AlN sputtering deposited on sapphire substrates with various orientations. <i>Journal of Semiconductors</i> , 2022 , 43, 022801	2.3	1
12	Emitter formation with boron diffusion from PECVD deposited boron-doped silicon oxide for high-efficiency TOPCon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 240, 111713	6.4	1
11	Approaching 23% efficient n-type crystalline silicon solar cells with a silicon oxide-based highly transparent passivating contact. <i>Nano Energy</i> , 2022 , 98, 107319	17.1	1
10	50-Jim thick flexible dopant-free interdigitated-back-contact silicon heterojunction solar cells with front MoOx coatings for efficient antireflection and passivation. <i>Optics Express</i> , 2022 , 30, 21309	3.3	1
9	Excellent passivation with implied open-circuit voltage of 710 mV for p-type multi-crystalline black silicon using PECVD grown a-Si:H passivation layer. <i>Solar Energy</i> , 2020 , 211, 753-758	6.8	Ο
8	Highly sensitive flexible tactile perceptual interactive platform with functions of Braille code recognition. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 375102	3	0
7	24.4% industrial tunnel oxide passivated contact solar cells with ozone-gas oxidation Nano SiOx and tube PECVD prepared in-situ doped polysilicon. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 243, 111803	6.4	Ο
6	Characterization of tunnel oxide passivated contact with n-type poly-Si on p-type c-Si wafer substrate. <i>Current Applied Physics</i> , 2019 , 19, 811-816	2.6	
5	Low-Temperature Oxidation-Processed Titanium Oxides as Dual-Functional Electron-Selective Passivation Contacts. <i>Solar Rrl</i> , 2020 , 4, 1900490	7.1	

4	surface-emitting lasers with buried p-AlGaN inversion layer. <i>Superlattices and Microstructures</i> , 2020 , 146, 106654	2.8
3	Efficient Carrier Recombination in InGaN Pyramidal $\bar{\mu}$ -LEDs Obtained through Selective Area Growth. <i>Photonics</i> , 2021 , 8, 157	2.2
2	Carrier localization and defect-insensitive optical behaviors of ultraviolet multiple quantum wells grown on patterned AlN nucleation layer. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 157589	5.7
1	Scalable growth of vertically oriented graphene nanosheets with high rate by a high-flux mesoplasma chemical vapor deposition. <i>Carbon Trends</i> , 2021 , 4, 100069	O