

Ching-Fuh Lin

List of Publications by Year in descending order

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314
papers

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186265

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times ranked

3612
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology Dependence of Silicon Nanowire/Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Heterojunction Solar Cells. Chemistry of Materials, 2010, 22, 3108-3113.	6.7	241
2	Solution-processed vanadium oxide as an anode interlayer for inverted polymer solar cells hybridized with ZnO nanorods. Organic Electronics, 2009, 10, 1060-1065.	2.6	154
3	Silicon nanowire/organic hybrid solar cell with efficiency of 8.40%. Solar Energy Materials and Solar Cells, 2012, 98, 267-272.	6.2	121
4	Well-aligned single-crystalline silicon nanowire hybrid solar cells on glass. Solar Energy Materials and Solar Cells, 2009, 93, 621-624.	6.2	117
5	Sol-gel processed CuOx thin film as an anode interlayer for inverted polymer solar cells. Organic Electronics, 2010, 11, 1828-1834.	2.6	94
6	Electroluminescence from ZnO/Si-Nanotips Light-Emitting Diodes. Nano Letters, 2009, 9, 1839-1843.	9.1	83
7	Room-temperature electroluminescence from electron-hole plasmas in the metal-oxide-silicon tunneling diodes. Applied Physics Letters, 2000, 76, 1516-1518.	3.3	82
8	Influences of ZnO sol-gel thin film characteristics on ZnO nanowire arrays prepared at low temperature using all solution-based processing. Journal of Applied Physics, 2008, 103, 014304.	2.5	82
9	Double side electroluminescence from p-NiO/n-ZnO nanowire heterojunctions. Applied Physics Letters, 2009, 95, 131117.	3.3	82
10	Extremely broadband AlGaAs/GaAs superluminescent diodes. Applied Physics Letters, 1997, 71, 1598-1600.	3.3	81
11	Hybrid organic-inorganic heterojunction solar cells with 12% efficiency by utilizing flexible film-silicon with a hierarchical surface. Nanoscale, 2014, 6, 3361.	5.6	79
12	Electroluminescence from ZnO nanoparticles/organic nanocomposites. Applied Physics Letters, 2006, 89, 231116.	3.3	77
13	Efficient and Air-Stable Polymer Photovoltaic Devices With $\text{WO}_3/\text{V}_2\text{O}_5$ Mixed Oxides as Anodic Modification. IEEE Electron Device Letters, 2010, 31, 332-334.	3.9	67
14	Enhancing performance of organic-inorganic hybrid solar cells using a fullerene interlayer from all-solution processing. Solar Energy Materials and Solar Cells, 2010, 94, 182-186.	6.2	63
15	Lengthening the polymer solidification time to improve the performance of polymer/ZnO nanorod hybrid solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 1608-1612.	6.2	60
16	Broad-band superluminescent diodes fabricated on a substrate with asymmetric dual quantum wells. IEEE Photonics Technology Letters, 1996, 8, 1456-1458.	2.5	48
17	External-cavity semiconductor laser tunable from 1.3 to 1.54 μm for optical communication. IEEE Photonics Technology Letters, 2002, 14, 3-5.	2.5	45
18	Tunable diffraction of magnetic fluid films and its potential application in coarse wavelength-division multiplexing. Optics Letters, 2004, 29, 1867.	3.3	43

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19	Low-Pressure-Assisted Coating Method To Improve Interface between PEDOT:PSS and Silicon Nanotips for High-Efficiency Organic/Inorganic Hybrid Solar Cells via Solution Process. ACS Applied Materials & Interfaces, 2016, 8, 2406-2415.	8.0	42
20	High-efficiency inverted polymer solar cells with solution-processed metal oxides. Solar Energy Materials and Solar Cells, 2011, 95, 2511-2515.	6.2	40
21	Interface modification of a highly air-stable polymer solar cell. Solar Energy Materials and Solar Cells, 2012, 98, 351-356.	6.2	40
22	Influence of pre-surface treatment on the morphology of silicon nanowires fabricated by metal-assisted etching. Applied Surface Science, 2011, 257, 1829-1834.	6.1	39
23	Extremely broadband InGaAsP/InP superluminescent diodes. Electronics Letters, 2000, 36, 2093.	1.0	37
24	GaAs nanowire/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) hybrid solar cells with incorporating electron blocking poly(3-hexylthiophene) layer. Solar Energy Materials and Solar Cells, 2012, 105, 40-45.	6.2	37
25	Superluminescent diodes with bent waveguide. IEEE Photonics Technology Letters, 1996, 8, 206-208.	2.5	36
26	Electroluminescence at Si band gap energy based on metal-oxide-silicon structures. Journal of Applied Physics, 2000, 87, 8793-8795.	2.5	35
27	Sequence influence of nonidentical InGaAsP quantum wells on broadband characteristics of semiconductor optical amplifiers-superluminescent diodes. Optics Letters, 2001, 26, 1099.	3.3	35
28	Roughness-enhanced electroluminescence from metal oxide silicon tunneling diodes. IEEE Electron Device Letters, 2000, 21, 601-603.	3.9	30
29	Improvement of surface morphology of thin films and performance by applying electric field on P3HT:PCBM based solar cells. Solar Energy Materials and Solar Cells, 2012, 99, 263-267.	6.2	30
30	Optical trapping enhancement from high density silicon nanohole and nanowire arrays for efficient hybrid organic-inorganic solar cells. RSC Advances, 2015, 5, 13224-13233.	3.6	30
31	Temperature dependence of the electron-hole-plasma electroluminescence from metal-oxide-silicon tunneling diodes. Applied Physics Letters, 2000, 77, 1111-1113.	3.3	29
32	GaAs nanowire/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) hybrid solar cells. Nanotechnology, 2010, 21, 285203.	2.6	28
33	Performance enhancement in inverted polymer photovoltaics with solution-processed MoO and air-plasma treatment for anode modification. Solar Energy Materials and Solar Cells, 2013, 109, 178-184.	6.2	28
34	Use of SiO ₂ nanoparticles as etch mask to generate Si nanorods by reactive ion etch. Journal of Vacuum Science & Technology B, 2006, 24, 599.	1.3	27
35	Electroluminescence from monolayer ZnO nanoparticles using dry coating technique. Applied Physics Letters, 2008, 92, .	3.3	27
36	Massive transfer of vertically aligned Si nanowire array onto alien substrates and their characteristics. Applied Surface Science, 2009, 255, 8566-8570.	6.1	27

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37	Influences of silicon nanowire morphology on its electro-optical properties and applications for hybrid solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 1400-1410.	8.1	27
38	Morphological evolution of the poly(3-hexylthiophene)/[6,6]-phenyl-C61-butyric acid methyl ester, oxidation of the silver electrode, and their influences on the performance of inverted polymer solar cells with a sol-gel derived zinc oxide electron selective layer. <i>Thin Solid Films</i> , 2010, 518, 4964-4969.	1.8	26
39	Improving the property of ZnO nanorods using hydrogen peroxide solution. <i>Journal of Crystal Growth</i> , 2008, 310, 2806-2809.	1.5	24
40	Silicon Waveguide Sidewall Smoothing by KrF Excimer Laser Reformation. <i>Journal of Lightwave Technology</i> , 2009, 27, 887-892.	4.6	24
41	Investigation of the localized surface plasmon effect from Au nanoparticles in ZnO nanorods for enhancing the performance of polymer solar cells. <i>Nanoscale</i> , 2015, 7, 776-783.	5.6	23
42	Solution-processed carrier selective layers for high efficiency organic/nanostructured-silicon hybrid solar cells. <i>Nanoscale</i> , 2016, 8, 5379-5385.	5.6	23
43	Ultra-broadband photoresponse of localized surface plasmon resonance from Si-based pyramid structures. <i>Photonics Research</i> , 2019, 7, 1119.	7.0	23
44	An iterative finite difference beam propagation method for modeling second-order nonlinear effects in optical waveguides. <i>Journal of Lightwave Technology</i> , 1998, 16, 1686-1693.	4.6	22
45	Environmentally Benign Technology for Efficient Warm-White Light Emission. <i>Scientific Reports</i> , 2015, 4, 5307.	3.3	22
46	Morphological modification induced by external electric field during solution process of organic solar cells. <i>Organic Electronics</i> , 2012, 13, 297-301.	2.6	21
47	Interface modification for efficiency enhancement in silicon nanohole hybrid solar cells. <i>RSC Advances</i> , 2016, 6, 12374-12381.	3.6	21
48	Wide-range tunable semiconductor lasers using asymmetric dual quantum wells. <i>IEEE Photonics Technology Letters</i> , 1998, 10, 322-324.	2.5	20
49	Hot carrier recombination model of visible electroluminescence from metal-oxide-silicon tunneling diodes. <i>Applied Physics Letters</i> , 2000, 77, 4347-4349.	3.3	20
50	Correlation between nanoscale surface potential and power conversion efficiency of P3HT/TiO ₂ nanorod bulk heterojunction photovoltaic devices. <i>Nanoscale</i> , 2010, 2, 1448.	5.6	20
51	Morphologic improvement of the PBDTTT-C and PC ₇₁ BM blend film with mixed solvent for high-performance inverted polymer solar cells. <i>Nanotechnology</i> , 2013, 24, 484009.	2.6	20
52	Influence of Separate Confinement Heterostructure on Emission Bandwidth of InGaAsP Superluminescent Diodes/Semiconductor Optical Amplifiers With Nonidentical Multiple Quantum Wells. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 1441-1443.	2.5	19
53	174-nm Mode Spacing in Dual-Wavelength Semiconductor Laser Using Nonidentical InGaAsP Quantum Wells. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 371-373.	2.5	19
54	Low-Temperature Growth of Surface-Architecture-Controlled ZnO Nanorods on Si Substrates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 512-517.	3.1	19

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55	Enhanced ultraviolet electroluminescence from ZnO nanowires in TiO ₂ /ZnO coaxial nanowires/poly(3,4-ethylenedioxythiophene)-poly(styrene-sulfonate) heterojunction. Journal of Applied Physics, 2010, 107, 034310.	2.5	19
56	Wide-range tunable dual-wavelength semiconductor laser using asymmetric dual quantum wells. IEEE Photonics Technology Letters, 1998, 10, 1208-1210.	2.5	18
57	Model for band-edge electroluminescence from metal-oxide-semiconductor silicon tunneling diodes. Journal of Applied Physics, 2001, 90, 789-793.	2.5	18
58	Enhancing performance of inverted polymer solar cells using two-growth ZnO nanorods. Solar Energy Materials and Solar Cells, 2015, 132, 570-577.	6.2	18
59	High Efficiency Flexible Polymer Solar Cells Based on PET Substrates with a Nonannealing Active Layer. Journal of the Electrochemical Society, 2009, 156, B1188.	2.9	17
60	Influence of mixed solvent on the morphology of the P3HT:Indene-C60 bisadduct (ICBA) blend film and the performance of inverted polymer solar cells. Organic Electronics, 2013, 14, 26-31.	2.6	17
61	Analysis of stability in two-mode laser systems. IEEE Journal of Quantum Electronics, 1996, 32, 1377-1382.	1.9	16
62	High-Power Angled Broad-Area 1.3- μm Laser Diodes With Good Beam Quality. IEEE Photonics Technology Letters, 2004, 16, 2412-2414.	2.5	16
63	Single-layer organic-inorganic-hybrid thin-film encapsulation for organic solar cells. Journal Physics D: Applied Physics, 2013, 46, 435502.	2.8	16
64	Performance-Enhanced Textured Silicon Solar Cells Based on Plasmonic Light Scattering Using Silver and Indium Nanoparticles. Materials, 2015, 8, 6668-6676.	2.9	16
65	Carrier diffusion effect in tapered semiconductor-laser amplifier. IEEE Journal of Quantum Electronics, 1998, 34, 1247-1256.	1.9	15
66	Experimental evidence of nonuniform carrier distribution in multiple-quantum-well laser diodes. Electronics Letters, 1998, 34, 1230.	1.0	15
67	Formation of self-organized platinum nanoparticles and their microphotoluminescence enhancement in the visible light region. Journal of Applied Physics, 2007, 102, 073508.	2.5	15
68	Analysis of the PEDOT:PSS/Si nanowire hybrid solar cell with a tail state model. Journal of Applied Physics, 2016, 120, .	2.5	15
69	Nanoparticle-modified metal-oxide-silicon structure enhancing silicon band-edge electroluminescence to near-lasing action. Optics Letters, 2002, 27, 713.	3.3	14
70	Electroluminescence and photoluminescence studies on carrier radiative and nonradiative recombinations in metal-oxide-silicon tunneling diodes. Journal of Applied Physics, 2003, 93, 4253-4259.	2.5	14
71	Band structure engineering for low band gap polymers containing thienopyrazine. Journal of Materials Chemistry, 2012, 22, 7331.	6.7	14
72	The influence of wrinkled ZnO on inverted low bandgap thin film solar cells. Solar Energy Materials and Solar Cells, 2012, 101, 180-185.	6.2	14

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73	Significance of the ZnO nanorod array morphology for low-bandgap polymer solar cells in inverted structures. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14641.	10.3	14
74	The effects of MoO ₃ treatment on inverted PBDTTT-C:PC71BM solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 119, 235-240.	6.2	14
75	ZnO nanorod arrays for various low-bandgap polymers in inverted organic solar cells. <i>Nanoscale</i> , 2014, 6, 466-471.	5.6	14
76	Fabrication of silicon nanowire/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-graphene oxide hybrid solar cells. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	13
77	Enhancement of 1.5 μ m emission in erbium-doped spin-on glass by furnace annealing. <i>Thin Solid Films</i> , 2007, 515, 6754-6757.	1.8	12
78	Silicon-Based Photodetector for Infrared Telecommunication Applications. <i>IEEE Photonics Journal</i> , 2021, 13, 1-7.	2.0	12
79	Comparisons of finite difference beam propagation methods for modeling second-order nonlinear effects. <i>Journal of Lightwave Technology</i> , 1999, 17, 1481-1486.	4.6	11
80	Visible and band edge electroluminescence from indium tin oxide/SiO ₂ /Si metal-oxide-semiconductor structures. <i>Journal of Applied Physics</i> , 2001, 89, 323-326.	2.5	11
81	Synthesis and luminescence properties of europium doped silica thin film. <i>Materials Letters</i> , 2007, 61, 3802-3804.	2.6	11
82	Post-annealing effects on pulsed laser deposition-grown GaN thin films. <i>Thin Solid Films</i> , 2015, 577, 17-25.	1.8	11
83	Poly(3-hexylthiophene):indene-C ₆₀ bisadduct morphology improvement by the use of polyvinylcarbazole as additive. <i>Solar Energy Materials and Solar Cells</i> , 2013, 113, 90-95.	6.2	10
84	The Roughness-Enhanced Light Emission from Metal-Oxide-Silicon Light-Emitting Diodes Using Very High Vacuum Prebake. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L326-L328.	1.5	9
85	Anticompetition of laser modes. <i>Applied Physics Letters</i> , 2003, 82, 3611-3613.	3.3	9
86	Effective energy densities in KrF excimer laser reformation as a sidewall smoothing technique. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 110.	1.3	9
87	Enhancing Si/Organic Hybrid Solar Cells via Optimizing PEDOT:PSS Optical Properties and Anode Surface Contacts. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 688-693.	2.5	9
88	Carrier lifetime measurement on electroluminescent metal-oxide-silicon tunneling diodes. <i>Applied Physics Letters</i> , 2001, 79, 2264-2266.	3.3	8
89	The band-edge light emission from the metal-oxide-silicon tunneling diode on (110) substrates. <i>Solid-State Electronics</i> , 2002, 46, 1113-1116.	1.4	8
90	Optical Components for Communications. , 2004, , .		8

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91	Improving the conductivity of hole injection layer by heating PEDOT:PSS. Proceedings of SPIE, 2008, , .	0.8	8
92	High-density one-dimensional well-aligned germanium quantum dots on a nanoridge array. Applied Physics Letters, 2008, 93, 083101.	3.3	8
93	Improvement of inverted-type organic solar cells by mild oxygen plasma etching on polymer thin film. Solar Energy Materials and Solar Cells, 2010, 94, 1681-1685.	6.2	8
94	Fabrication of Silicon Nanostructured Thin Film and Its Transfer from Bulk Wafers onto Alien Substrates. Journal of the Electrochemical Society, 2011, 158, D95.	2.9	8
95	<title>CdS nanoparticle light-emitting diode on Si</title>. , 2002, , .		7
96	Improved temperature characteristics of laser diodes with nonidentical multiple quantum wells due to temperature-induced carrier redistribution. Applied Physics Letters, 2003, 82, 3403-3405.	3.3	7
97	Controlled Growth of Zinc Oxide Nanorod Array in Aqueous Solution by Zinc Oxide Sol-Gel Thin Film in Relation to Growth Rate and Optical Property. , 2008, , .		7
98	Fabrication of Crystalline Si Waveguides on (1 0 0) Bulk Si Substrate Using Laser Reformation Method. Journal of Lightwave Technology, 2013, 31, 3368-3373.	4.6	7
99	Efficient Planar Heterojunction Perovskite Solar Cells via Low-Pressure Proximity Evaporation Technique. IEEE Journal of Photovoltaics, 2017, 7, 184-190.	2.5	7
100	Plasmonic Light Scattering in Textured Silicon Solar Cells with Indium Nanoparticles from Normal to Non-Normal Light Incidence. Materials, 2017, 10, 737.	2.9	7
101	Photovoltaic Performance Enhancement of Silicon Solar Cells Based on Combined Ratios of Three Species of Europium-Doped Phosphors. Materials, 2018, 11, 845.	2.9	7
102	Characteristics of n-type ZnO nanorods on top of p-type poly(3-hexylthiophene) heterojunction by solution-based growth. Thin Solid Films, 2010, 518, 6066-6070.	1.8	6
103	Low photoactive phase temperature all-inorganic, tinâ€œlead mixed perovskite solar cell. RSC Advances, 2021, 11, 3264-3271.	3.6	6
104	Enhanced Efficiency of Semitransparent Perovskite Solar Cells via Double-Sided Sandwich Evaporation Technique for Four Terminal Perovskite-Silicon Tandem Application. Nanomaterials, 2022, 12, 1569.	4.1	6
105	Infrared electroluminescence from metal-oxide-semiconductor structures on silicon. Journal of Physics Condensed Matter, 2000, 12, L205-L210.	1.8	5
106	Enhanced reliability of electroluminescence from metalâ€œoxideâ€œsilicon tunneling diodes by deuterium incorporation. Applied Physics Letters, 2001, 78, 1397-1399.	3.3	5
107	Blackbody radiation modified to enhance blue spectrum. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1517.	2.1	5
108	Fabrication of crystalline Si spheres with atomic-scale surface smoothness using homogenized KrF excimer laser reformation system. Journal of Vacuum Science & Technology B, 2009, 27, 1156.	1.3	5

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109	Fabrication of large-area gallium arsenide nanowires using silicon dioxide nanoparticle mask. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 2449-2452.	1.3	5
110	Solar Power Can Substantially Prolong Maximum Achievable Airtime of Quadcopter Drones. <i>Advanced Science</i> , 2020, 7, 2001497.	11.2	5
111	Sandwich Evaporation–Solvent Annealing Fabrication of Highly Crystalline MAPbI ₃ Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45355-45364.	8.0	5
112	Mid-Infrared Response from Cr/n-Si Schottky Junction with an Ultra-Thin Cr Metal. <i>Nanomaterials</i> , 2022, 12, 1750.	4.1	5
113	Quasi-3-D beam-propagation method for modeling nonlinear wavelength conversion. <i>Journal of Lightwave Technology</i> , 2001, 19, 772-779.	4.6	4
114	Light-emitting diodes on Si. , 2003, , .		4
115	2.2 μ m axial resolution optical coherence tomography based on a 400 nm-bandwidth superluminescent diode. <i>Scanning</i> , 2006, 28, 11-14.	1.5	4
116	Low-temperature Heteroepitaxy of Morphology-controlled ZnO Micro/Nanorod Arrays on GaN Substrates. <i>Chemistry Letters</i> , 2010, 39, 202-203.	1.3	4
117	Controlled formation of well-aligned GaAs nanowires with a high aspect ratio on transparent substrates. <i>Semiconductor Science and Technology</i> , 2010, 25, 065014.	2.0	4
118	Optical and Electrical Performance of MOS-Structure Silicon Solar Cells with Antireflective Transparent ITO and Plasmonic Indium Nanoparticles under Applied Bias Voltage. <i>Materials</i> , 2016, 9, 682.	2.9	4
119	Formation of Crystalline Si Optical Waveguides on Bulk (100) Si Substrate as a New Platform for On-Chip Interconnect Applications. <i>Journal of Lightwave Technology</i> , 2017, 35, 2266-2272.	4.6	4
120	Application of Silicon Nanostructure Arrays for 6-inch Mono and Multi-Crystalline Solar Cell. <i>Nanoscale Research Letters</i> , 2019, 14, 212.	5.7	4
121	Growth process control produces high-crystallinity and complete-reaction perovskite solar cells. <i>RSC Advances</i> , 2020, 10, 35898-35905.	3.6	4
122	The relationship between basic group resonance and quantum yield of high efficiency red light fluorescent solutions. <i>RSC Advances</i> , 2021, 11, 39142-39146.	3.6	4
123	An Alternative to Compound Semiconductors Using a Si-Based IR Detector. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 205-211.	3.0	4
124	Broadly tunable semiconductor lasers using asymmetric dual quantum wells. <i>Optics Communications</i> , 1999, 171, 271-277.	2.1	3
125	Reduced temperature dependence of luminescence from silicon due to field-induced carrier confinement. <i>Applied Physics Letters</i> , 2001, 78, 261-263.	3.3	3
126	Enhancing electroluminescence from metal-oxide–silicon tunneling diodes by nano-structures of oxide grown by liquid-phase method. <i>Materials Chemistry and Physics</i> , 2003, 77, 430-433.	4.0	3

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127	Electron-Determined Nonuniform Carrier Distribution among InGaAsP Multiple Quantum Wells. Japanese Journal of Applied Physics, 2003, 42, 5557-5558.	1.5	3
128	Extremely broadband superluminescent diodes/semiconductor optical amplifiers in optical communication band. , 2003, , .		3
129	Rigorous carrier dynamic model of electroluminescent metal-oxide-semiconductor silicon tunneling diodes. Journal of Applied Physics, 2006, 100, 054509.	2.5	3
130	Anticompetition Between Laser Modes in Quantum-Dot Laser. IEEE Photonics Technology Letters, 2007, 19, 889-891.	2.5	3
131	Transfer of aligned single crystal silicon nanowires to transparent substrates. , 2008, , .		3
132	Effect of nanowire length to silicon nanowire/PEDOT:PSS solar cells. , 2011, , .		3
133	Layer transfer of crystalline Si thin film by metal-assisted chemical etching concerning different $H^{2+}/O^{2-}/HF$ ratios. , 2012, , .		3
134	Forming extremely smooth ZnO thin film on silicon substrates for growth of large and well-aligned ZnO rods with the hydrothermal method. Journal of Sol-Gel Science and Technology, 2014, 70, 81-89.	2.4	3
135	Surface-Plasmon-Resonance Based Narrow-Bandwidth Infrared Carbon Monoxide Detection System. IEEE Sensors Journal, 2022, 22, 9803-9810.	4.7	3
136	Short-pulse generation with broad-band tunability from semiconductor lasers in an external ring cavity. IEEE Photonics Technology Letters, 2000, 12, 618-620.	2.5	2
137	Electroluminescence at silicon band gap energy from mechanically pressed indium“tin”oxide/Si contact. Applied Physics Letters, 2001, 78, 1808-1810.	3.3	2
138	20nm silicon nanorods fabricated by reactive ion etch. , 0, , .		2
139	Investigation of laser-mode anticompetition in semiconductor lasers. IEEE Journal of Quantum Electronics, 2005, 41, 1-8.	1.9	2
140	Opposite temperature effects of quantum-dot laser under dual-wavelength operation. Applied Physics Letters, 2007, 90, 181113.	3.3	2
141	Surface potential and magnetic properties of La _{0.7} Sr _{0.3} MnO ₃ periodic arrays fabricated by direct electron beam writing. Journal of Applied Physics, 2008, 104, .	2.5	2
142	Accurate measurement of performance of polymer solar cell with highly conductive PEDOT:PSS. , 2009, , .		2
143	Performance enhancement of organic/inorganic hybrid solar cells by improving the optical absorption of polymer. , 2009, , .		2
144	Fabrication of multiple Si nanohole thin films from bulk wafer by controlling metal-assisted etching direction. , 2011, , .		2

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145	Enhancing the Performance of Textured Silicon Solar Cells by Combining Up-Conversion with Plasmonic Scattering. <i>Energies</i> , 2019, 12, 4119.	3.1	2
146	Bi-directional switching based on semiconductor laser/amplifier with shallow-etched bending ridge waveguide. <i>Applied Physics Letters</i> , 1997, 71, 1903-1905.	3.3	1
147	Carrier distribution in asymmetric dual quantum wells. , 1998, 3419, 341918.		1
148	InGaAsP/InP laser diodes/superluminescent diodes with nonidentical quantum wells. , 0, , .		1
149	Significant influence of surface states on the electroluminescence of CdS nanoparticles. , 2002, 4808, 156.		1
150	Influence of Separate Confinement Heterostructure Layer on Carrier Distribution in InGaAsP Laser Diodes with Nonidentical Multiple Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 7032-7035.	1.5	1
151	Broadband Wavelength Conversion in Semiconductor Optical Amplifier with Non-identical Multiple Quantum Wells. , 0, , .		1
152	Enhance the blue-light emission of black-body radiation with metallic photonic boxes. , 0, , .		1
153	Simultaneous generation of eight wavelengths with about 20-nm spacing from a single semiconductor laser. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 675-677.	2.5	1
154	Electroluminescence from nanoparticles/organic composites. , 2007, , .		1
155	Synthesis and characterization of ZnO nanorod arrays and their integration into polymer solar cells. , 2008, , .		1
156	Nano-Structured and Micro-Structured Semiconductors for Higher Efficiency Solar Cells. , 2008, , .		1
157	ZnO nanorod-based polymer solar cells with optimized electrodes. , 2008, , .		1
158	Improving Electrical Properties of ZnO Thin Films by the Combination of Plasma Treatment, Post-Annealing and Doping. , 2008, , .		1
159	Transfer of InGaP/GaAs double-junction micro-cuboid array onto foreign substrates using epitaxial lift-off (ELO) technique. , 2009, , .		1
160	Improved performance of polymer/ZnO nanorod hybrid solar cells by slow drying of the photoactive layer. , 2009, , .		1
161	Nanopatterned optical and magnetic La _{0.7} Sr _{0.3} MnO ₃ arrays: synthesis, fabrication, and properties. , 2010, , .		1
162	Controlled growth of well-aligned ZnO micro/nanorod arrays on GaN substrates using a novel solution method. , 2010, , .		1

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163	Reducing Si Reflectance by Improving Density and Uniformity of Si Nanowires Fabricated by Metal-Assisted Etching. , 2010, , .		1
164	Improve the thin film morphology and efficiency performance of P3HT:PCBM based solar cells by applying external electric fields. , 2011, , .		1
165	Inverted low-bandgap polymer solar cells with long-term stability. , 2011, , .		1
166	Review on Recent Progress on Sandwich-Structure Hybrid Solar Cells. Energy Technology, 2013, 1, 382-391.	3.8	1
167	Fabrication of large-scaled synergetic silicon nanowire arrays using metal-assisted chemical etching for solar cell applications. , 2013, , .		1
168	Morphology dependence of silicon nanostructure/organic polymer solar cell. , 2013, , .		1
169	Silicon nanowire/organic hybrid solar cells with zonyl fluorosurfactant treated PEDOT:PSS. , 2014, , .		1
170	Efficient warm-white lighting using rare-earth-element-free fluorescent materials for saving energy, environment protection and human health. RSC Advances, 2016, 6, 111959-111965.	3.6	1
171	The Deposition Environment Controlling Method: A Vapor-Phase Solvent-Assisted Approach to Fabricate High-Quality Crystalline Perovskite. IEEE Journal of Photovoltaics, 2018, , 1-6.	2.5	1
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