Linwei Yu

List of Publications by Citations

Source: https://exaly.com/author-pdf/2778529/linwei-yu-publications-by-citations.pdf

Version: 2024-04-23

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.

115
papers

2,739
citations

33
h-index

9-index

124
ext. papers

7.6
avg, IF

5.14
L-index

#	Paper	IF	Citations
115	Dual-Phase CsPbBr -CsPb Br Perovskite Thin Films via Vapor Deposition for High-Performance Rigid and Flexible Photodetectors. <i>Small</i> , 2018 , 14, 1702523	11	100
114	Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX Quantum Dots Radial Junction Architecture. <i>Advanced Materials</i> , 2017 , 29, 1700400	24	98
113	Plasma-enhanced low temperature growth of silicon nanowires and hierarchical structures by using tin and indium catalysts. <i>Nanotechnology</i> , 2009 , 20, 225604	3.4	97
112	Highly Connected Siliconflopper Alloy Mixture Nanotubes as High-Rate and Durable Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 524-531	15.6	92
111	High efficiency and stable hydrogenated amorphous silicon radial junction solar cells built on VLS-grown silicon nanowires. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 118, 90-95	6.4	91
110	Incorporation and redistribution of impurities into silicon nanowires during metal-particle-assisted growth. <i>Nature Communications</i> , 2014 , 5, 4134	17.4	83
109	In situ generation of indium catalysts to grow crystalline silicon nanowires at low temperature on ITO. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5187		<i>75</i>
108	Bismuth-catalyzed and doped silicon nanowires for one-pump-down fabrication of radial junction solar cells. <i>Nano Letters</i> , 2012 , 12, 4153-8	11.5	68
107	Enhancing Hybrid Perovskite Detectability in the Deep Ultraviolet Region with Down-Conversion Dual-Phase (CsPbBr-CsPbBr) Films. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1592-1599	6.4	67
106	A review on plasma-assisted VLS synthesis of silicon nanowires and radial junction solar cells. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 393001	3	61
105	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. <i>Nanotechnology</i> , 2009 , 20, 155602	3.4	58
104	An in-plane solid-liquid-solid growth mode for self-avoiding lateral silicon nanowires. <i>Physical Review Letters</i> , 2009 , 102, 125501	7.4	55
103	Mixed cation perovskite solar cells by stack-sequence chemical vapor deposition with self-passivation and gradient absorption layer. <i>Nano Energy</i> , 2018 , 48, 536-542	17.1	53
102	Mo-O bond doping and related-defect assisted enhancement of photoluminescence in monolayer MoS2. <i>AIP Advances</i> , 2014 , 4, 123004	1.5	52
101	Rapid, stable and self-powered perovskite detectors via a fast chemical vapor deposition process. <i>RSC Advances</i> , 2017 , 7, 18224-18230	3.7	50
100	High Efficient Hole Extraction and Stable All-Bromide Inorganic Perovskite Solar Cells via Derivative-Phase Gradient Bandgap Architecture. <i>Solar Rrl</i> , 2019 , 3, 1900030	7.1	47
99	Growth mechanism and dynamics of in-plane solid-liquid-solid silicon nanowires. <i>Physical Review B</i> , 2010 , 81,	3.3	46

(2017-2010)

98	Growth study of indium-catalyzed silicon nanowires by plasma enhanced chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 287-296	2.6	46
97	Synthesis, morphology and compositional evolution of silicon nanowires directly grown on SnO(2) substrates. <i>Nanotechnology</i> , 2008 , 19, 485605	3.4	45
96	Hierarchical nano-branched c-Si/SnO2 nanowires for high areal capacity and stable lithium-ion battery. <i>Nano Energy</i> , 2016 , 19, 511-521	17.1	44
95	Silicon nanowire solar cells grown by PECVD. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2299-2302	3.9	42
94	Cadmium-doped flexible perovskite solar cells with a low-cost and low-temperature-processed CdS electron transport layer. <i>RSC Advances</i> , 2017 , 7, 19457-19463	3.7	41
93	All-in-situ fabrication and characterization of silicon nanowires on TCO/glass substrates for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1855-1859	6.4	40
92	Engineering island-chain silicon nanowires via a droplet mediated Plateau-Rayleigh transformation. <i>Nature Communications</i> , 2016 , 7, 12836	17.4	39
91	Understanding light harvesting in radial junction amorphous silicon thin film solar cells. <i>Scientific Reports</i> , 2014 , 4, 4357	4.9	38
90	Wetting Layer: The Key Player in Plasma-Assisted Silicon Nanowire Growth Mediated by Tin. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17786-17790	3.8	38
89	Initial nucleation and growth of in-plane solid-liquid-solid silicon nanowires catalyzed by indium. <i>Physical Review B</i> , 2009 , 80,	3.3	38
88	Radial junction amorphous silicon solar cells on PECVD-grown silicon nanowires. <i>Nanotechnology</i> , 2012 , 23, 194011	3.4	37
87	Core-shell structure and unique faceting of Sn-catalyzed silicon nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 023107	3.4	36
86	Sn-catalyzed silicon nanowire solar cells with 4.9% efficiency grown on glass. <i>Progress in Photovoltaics: Research and Applications</i> , 2013 , 21, 77-81	6.8	35
85	Omnidirectional and effective salt-rejecting absorber with rationally designed nanoarchitecture for efficient and durable solar vapour generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22976-22986	13	35
84	Growth-in-place deployment of in-plane silicon nanowires. <i>Applied Physics Letters</i> , 2011 , 99, 203104	3.4	33
83	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020 , 15, 743-749	28.7	33
82	. IEEE Journal of Photovoltaics, 2015 , 5, 40-45	3.7	30
81	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017 , 17, 7638-7646	11.5	30

80	Theoretical short-circuit current density for different geometries and organizations of silicon nanowires in solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 645-651	6.4	29
79	A bottom-up synthetic hierarchical buffer structure of copper silicon nanowire hybrids as ultra-stable and high-rate lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7877-78	88 ⁶	27
78	In-Plane Self-Turning and Twin Dynamics Renders Large Stretchability to Mono-Like Zigzag Silicon Nanowire Springs. <i>Advanced Functional Materials</i> , 2016 , 26, 5352-5359	15.6	27
77	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016 , 8, 2613-9	7.7	27
76	In-plane epitaxial growth of silicon nanowires and junction formation on Si(100) substrates. <i>Nano Letters</i> , 2014 , 14, 6469-74	11.5	27
75	Guided growth of in-plane silicon nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 113106	3.4	27
74	Stability and evolution of low-surface-tension metal catalyzed growth of silicon nanowires. <i>Applied Physics Letters</i> , 2011 , 98, 123113	3.4	27
73	Fast-Response and Low-Hysteresis Flexible Pressure Sensor Based on Silicon Nanowires. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1069-1072	4.4	26
72	Natural occurrence of the diamond hexagonal structure in silicon nanowires grown by a plasma-assisted vapour-liquid-solid method. <i>Nanoscale</i> , 2017 , 9, 8113-8118	7.7	25
71	All-Inorganic Perovskite Quantum Dots/p-Si Heterojunction Light-Emitting Diodes under DC and AC Driving Modes. <i>Advanced Optical Materials</i> , 2018 , 6, 1700897	8.1	25
70	High performance transparent in-plane silicon nanowire Fin-TFTs via a robust nano-droplet-scanning crystallization dynamics. <i>Nanoscale</i> , 2017 , 9, 10350-10357	7.7	24
69	Rational Energy Band Alignment and Au Nanoparticles in Surface Plasmon Enhanced Si-Based Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018 , 6, 1800693	8.1	24
68	Surface-activation modified perovskite crystallization for improving photovoltaic performance. <i>Materials Today Energy</i> , 2017 , 5, 173-180	7	24
67	Monolithic Integration of Silicon Nanowire Networks as a Soft Wafer for Highly Stretchable and Transparent Electronics. <i>Nano Letters</i> , 2019 , 19, 6235-6243	11.5	23
66	Assessing individual radial junction solar cells over millions on VLS-grown silicon nanowires. <i>Nanotechnology</i> , 2013 , 24, 275401	3.4	21
65	Planar Growth, Integration, and Applications of Semiconducting Nanowires. <i>Advanced Materials</i> , 2020 , 32, e1903945	24	21
64	The Effect of Decomposed PbI on Microscopic Mechanisms of Scattering in CHNHPbI Films. <i>Nanoscale Research Letters</i> , 2019 , 14, 208	5	20
63	Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. <i>Nano Letters</i> , 2019 , 19, 3295-3304	11.5	19

(2016-2015)

62	Full potential of radial junction Si thin film solar cells with advanced junction materials and design. <i>Applied Physics Letters</i> , 2015 , 107, 043902	3.4	19	
61	Firmly standing three-dimensional radial junctions on soft aluminum foils enable extremely low cost flexible thin film solar cells with very high power-to-weight performance. <i>Nano Energy</i> , 2018 , 53, 83-90	17.1	18	
60	Enhanced up-conversion luminescence from NaYF4:Yb,Er nanocrystals by Gd3+ ions induced phase transformation and plasmonic Au nanosphere arrays. <i>RSC Advances</i> , 2016 , 6, 102869-102874	3.7	17	
59	Operating principles of in-plane silicon nanowires at simple step-edges. <i>Nanoscale</i> , 2015 , 7, 5197-202	7.7	17	
58	Heteroepitaxial Writing of Silicon-on-Sapphire Nanowires. <i>Nano Letters</i> , 2016 , 16, 7317-7324	11.5	15	
57	Improved Efficiency of Silicon Nanoholes/Gold Nanoparticles/Organic Hybrid Solar Cells via Localized Surface Plasmon Resonance. <i>Nanoscale Research Letters</i> , 2016 , 11, 160	5	15	
56	3D Sidewall Integration of Ultrahigh-Density Silicon Nanowires for Stacked Channel Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800627	6.4	14	
55	Bi-Sn alloy catalyst for simultaneous morphology and doping control of silicon nanowires in radial junction solar cells. <i>Applied Physics Letters</i> , 2015 , 107, 163105	3.4	14	
54	Highly stretchable graphene nanoribbon springs by programmable nanowire lithography. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	13	
53	How tilting and cavity-mode-resonant absorption contribute to light harvesting in 3D radial junction solar cells. <i>Optics Express</i> , 2015 , 23, A1288-96	3.3	13	
52	Engineering in-plane silicon nanowire springs for highly stretchable electronics. <i>Journal of Semiconductors</i> , 2018 , 39, 011001	2.3	13	
51	Highly Sensitive Ammonia Gas Detection at Room Temperature by Integratable Silicon Nanowire Field-Effect Sensors. <i>ACS Applied Materials & Englished Property Sensors</i> , 13, 14377-14384	9.5	13	
50	Nanodroplet Hydrodynamic Transformation of Uniform Amorphous Bilayer into Highly Modulated Ge/Si Island-Chains. <i>Nano Letters</i> , 2018 , 18, 6931-6940	11.5	13	
49	High Performance Si Nanowire TFTs With Ultrahigh on/off Current Ratio and Steep Subthreshold Swing. <i>IEEE Electron Device Letters</i> , 2020 , 41, 46-49	4.4	12	
48	Correlative microscopy of radial junction nanowire solar cells using nanoindent position markers. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 135, 106-112	6.4	11	
47	Cylindrical Line-Feeding Growth of Free-Standing Silicon Nanohelices as Elastic Springs and Resonators. <i>Nano Letters</i> , 2020 , 20, 5072-5080	11.5	11	
46	High-temperature stable plasmonic and cavity resonances in metal nanoparticle-decorated silicon nanopillars for strong broadband absorption in photothermal applications. <i>Nanoscale</i> , 2019 , 11, 14777-	14784	11	
45	Light Harvesting and Enhanced Performance of Si Quantum Dot/Si Nanowire Heterojunction Solar Cells. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 38-43	3.1	11	

44	Low Power Consumption Red Light-Emitting Diodes Based on Inorganic Perovskite Quantum Dots under an Alternating Current Driving Mode. <i>Nanomaterials</i> , 2018 , 8,	5.4	11
43	Type-II core-shell Si-CdS nanocrystals: synthesis and spectroscopic and electrical properties. <i>Chemical Communications</i> , 2014 , 50, 11922-5	5.8	9
42	Microscopic measurements of variations in local (photo)electronic properties in nanostructured solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 119, 228-234	6.4	9
41	Germanium quantum dot infrared photodetectors addressed by self-aligned silicon nanowire electrodes. <i>Nanotechnology</i> , 2020 , 31, 145602	3.4	9
40	Unprecedented Uniform 3D Growth Integration of 10-Layer Stacked Si Nanowires on Tightly Confined Sidewall Grooves. <i>Nano Letters</i> , 2020 , 20, 7489-7497	11.5	9
39	Highly flexible radial tandem junction thin film solar cells with excellent power-to-weight ratio. Nano Energy, 2021 , 86, 106121	17.1	9
38	Meandering growth of in-plane silicon nanowire springs. <i>Applied Physics Letters</i> , 2019 , 114, 233103	3.4	8
37	Advanced radial junction thin film photovoltaics and detectors built on standing silicon nanowires. <i>Nanotechnology</i> , 2019 , 30, 302001	3.4	8
36	Boosting light emission from Si-based thin film over Si and SiO(2) nanowires architecture. <i>Optics Express</i> , 2015 , 23, 5388-96	3.3	8
35	Facile 3D integration of Si nanowires on Bosch-etched sidewalls for stacked channel transistors. <i>Nanoscale</i> , 2020 , 12, 2787-2792	7.7	8
34	Investigating inhomogeneous electronic properties of radial junction solar cells using correlative microscopy. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KA08	1.4	7
33	Morphology control and growth dynamics of in-plane solid[]quid[]olid silicon nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1045-1049	3	7
32	Biomimetic Radial Tandem Junction Photodetector with Natural RGB Color Discrimination Capability. <i>Advanced Optical Materials</i> , 2017 , 5, 1700390	8.1	7
31	Three-dimensional a-Si/a-Ge radial heterojunction near-infrared photovoltaic detector. <i>Scientific Reports</i> , 2019 , 9, 19752	4.9	7
30	Photoelectric Cardiac Pacing by Flexible and Degradable Amorphous Si Radial Junction Stimulators. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901342	10.1	6
29	Design, Shaping, and Assembly of Free-Standing Silicon Nanoprobes. <i>Nano Letters</i> , 2021 , 21, 2773-2779	11.5	6
28	On the Mechanism of In Nanoparticle Formation by Exposing ITO Thin Films to Hydrogen Plasmas. <i>Langmuir</i> , 2017 , 33, 12114-12119	4	5
27	Nanoscale Photovoltaic Responses in 3D Radial Junction Solar Cells Revealed by High Spatial Resolution Laser Excitation Photoelectric Microscopy. <i>ACS Nano</i> , 2019 , 13, 10359-10365	16.7	5

26	Superfast Growth Dynamics of High-Quality Silicon Nanowires on Polymer Films via Self-Selected Laser-Droplet-Heating. <i>Nano Letters</i> , 2021 , 21, 569-576	11.5	5	
25	Optical absorption in vertical silicon nanowires for solar cell applications 2011,		4	
24	Flexible and Robust 3D a-SiGe Radial Junction Near-Infrared Photodetectors for Rapid Sphygmic Signal Monitoring. <i>Advanced Functional Materials</i> ,2107040	15.6	4	
23	An Optimized FinFET Channel With Improved Line-Edge Roughness and Linewidth Roughness Using the Hydrogen Thermal Treatment Technology. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 1081-1087	2.6	3	
22	Coupled boron-doping and geometry control of tin-catalyzed silicon nanowires for high performance radial junction photovoltaics. <i>Optics Express</i> , 2019 , 27, 37248-37256	3.3	3	
21	Highly Stretchable High-Performance Silicon Nanowire Field Effect Transistors Integrated on Elastomer Substrates <i>Advanced Science</i> , 2022 , e2105623	13.6	2	
20	In situ observation of droplet nanofluidics for yielding low-dimensional nanomaterials. <i>Applied Surface Science</i> , 2022 , 573, 151510	6.7	2	
19	Synergetic effect in rolling GaIn alloy droplets enables ultralow temperature growth of silicon nanowires at 70 °C on plastics. <i>Nanoscale</i> , 2020 , 12, 8949-8957	7.7	2	
18	Terrace-confined guided growth of high-density ultrathin silicon nanowire array for large area electronics. <i>Nanotechnology</i> , 2021 ,	3.4	2	
17	Catalyst formation and growth of Sn- and In-catalyzed silicon nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1258, 1		1	
16	Innovative all-silicon based a-SiNx:O/c-Si heterostructure solar-blind photodetector with both high responsivity and fast response speed. <i>APL Photonics</i> , 2022 , 7, 026102	5.2	1	
15	Designable Integration of Silicide Nanowire Springs as Ultra-Compact and Stretchable Electronic Interconnections. <i>Small</i> , 2021 , e2104690	11	1	
14	Bismuth-catalyzed n-type doping and growth evolution of planar silicon nanowires. <i>Applied Physics Letters</i> , 2020 , 117, 243103	3.4	1	
13	Robust neuronal differentiation of human iPSC-derived neural progenitor cells cultured on densely-spaced spiky silicon nanowire arrays. <i>Scientific Reports</i> , 2021 , 11, 18819	4.9	1	
12	Non-invasive digital etching of van der Waals semiconductors <i>Nature Communications</i> , 2022 , 13, 1844	17.4	1	
11	Ultrathin 3D radial tandem-junction photocathode with a high onset potential of 1.15 V for solar hydrogen production. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1842-1850	11.3	1	
10	Guided growth of in-plane lateral SiNWs led by indium catalysts. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1178, 92		0	
9	Precise morphology control of in-plane silicon nanowires via a simple plasma pre-treatment. Applied Surface Science, 2022, 153435	6.7	O	

8	Bias-selected full Red/Green/Blue color sensing and imaging based on inversely stacked radial PINIP junctions. <i>Nano Futures</i> , 2020 , 4, 035007	3.6
7	Electron microscopy studies of Silicon Radial junction for stable and highly efficient thin film solar cells 2016 , 894-895	
6	Perovskite Quantum Dot Photodetectors. Springer Series in Materials Science, 2020, 181-218	0.9
5	Polymorphous Nano-Si and Radial Junction Solar Cells 2018 , 1-53	
4	Polymorphous Nano-Si and Radial Junction Solar Cells 2019 , 879-931	
3	Corrections to High Performance Si Nanowire TFTs With Ultrahigh On/Off Current Ratio and Steep Subthreshold Swing[[Jan 20 46-49]. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1604-1604	4.4
2	Unexpected phosphorus doping routine of planar silicon nanowires for integrating CMOS logics. <i>Nanoscale</i> , 2021 , 13, 15031-15037	7.7
1	22.2: Invited Paper: Programmable integration of silicon nanowires into orderly and stretchable arrays for high performance thin film transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 144-144	0.5