

# Shuit-Tong Lee

## List of Publications by Year in Descending Order

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

47  
papers

9,359  
citations

35  
h-index

55  
g-index

55  
ext. papers

10,646  
ext. citations

15.5  
avg, IF

6.15  
L-index

#	Paper	IF	Citations
47	Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. <i>ACS Nano</i> , <b>2021</b> , 15, 7472-7481	16.7	15
46	The Inhibition of SARS-CoV-2 3CL M by Graphene and Its Derivatives from Molecular Dynamics Simulations.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
45	Single Vanadium Atoms Anchored on Graphitic Carbon Nitride as a High-Performance Catalyst for Non-oxidative Propane Dehydrogenation. <i>ACS Nano</i> , <b>2020</b> , 14, 5772-5779	16.7	31
44	Rational Interface Engineering for Efficient Flexible Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , <b>2020</b> , 14, 6107-6116	16.7	58
43	Approaching the Volcano Top: Iridium/Silicon Nanocomposites as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2019</b> , 13, 2786-2794	16.7	57
42	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. <i>ACS Nano</i> , <b>2019</b> , 13, 5910-5919	16.7	43
41	High-Efficiency Perovskite Light-Emitting Diodes with Synergetic Outcoupling Enhancement. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901517	24	130
40	Carbon dots: advances in nanocarbon applications. <i>Nanoscale</i> , <b>2019</b> , 11, 19214-19224	7.7	122
39	Integrating a Silicon Solar Cell with a Triboelectric Nanogenerator via a Mutual Electrode for Harvesting Energy from Sunlight and Raindrops. <i>ACS Nano</i> , <b>2018</b> , 12, 2893-2899	16.7	155
38	Liquid-Metal-Based Super-Stretchable and Structure-Designable Triboelectric Nanogenerator for Wearable Electronics. <i>ACS Nano</i> , <b>2018</b> , 12, 2027-2034	16.7	247
37	Janus Structures of Transition Metal Dichalcogenides as the Heterojunction Photocatalysts for Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3123-3129	3.8	160
36	Buried MoO /Ag Electrode Enables High-Efficiency Organic/Silicon Heterojunction Solar Cells with a High Fill Factor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13767-13773	9.5	22
35	Triboelectric Nanogenerator Driven Self-Powered Photoelectrochemical Water Splitting Based on Hematite Photoanodes. <i>ACS Nano</i> , <b>2018</b> , 12, 8625-8632	16.7	44
34	Impacts of Carbon Dots on Rice Plants: Boosting the Growth and Improving the Disease Resistance.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 663-672	4.1	85
33	Ultrahigh-Responsivity Photodetectors from Perovskite Nanowire Arrays for Sequentially Tunable Spectral Measurement. <i>Nano Letters</i> , <b>2017</b> , 17, 2482-2489	11.5	184
32	Low-temperature synthesis TiO x passivation layer for organic-silicon heterojunction solar cell with a high open-circuit voltage. <i>Nano Energy</i> , <b>2017</b> , 34, 257-263	17.1	52
31	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , <b>2017</b> , 11, 1123-1126	16.7	3

30	Silicon Nanowire/Polymer Hybrid Solar Cell-Supercapacitor: A Self-Charging Power Unit with a Total Efficiency of 10.5. <i>Nano Letters</i> , <b>2017</b> , 17, 4240-4247	11.5	106
29	High-Performance Ultrathin Organic-Inorganic Hybrid Silicon Solar Cells via Solution-Processed Interface Modification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21723-21729	9.5	16
28	Ligand Mediated Transformation of Cesium Lead Bromide Perovskite Nanocrystals to Lead Depleted CsPbBr Nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5309-5312	16.4	301
27	Fe <sub>2</sub> TiO <sub>5</sub> -incorporated hematite with surface P-modification for high-efficiency solar water splitting. <i>Nano Energy</i> , <b>2017</b> , 32, 526-532	17.1	37
26	Connecting Together Nanocenters around the World. <i>ACS Nano</i> , <b>2017</b> , 11, 8531-8532	16.7	3
25	Hydroxyl-Group-Dominated Graphite Dots Reshape Laser Desorption/Ionization Mass Spectrometry for Small Biomolecular Analysis and Imaging. <i>ACS Nano</i> , <b>2017</b> , 11, 9500-9513	16.7	59
24	Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 7323-7329	11.5	23
23	Naphthalene Diimide-Based n-Type Polymers: Efficient Rear Interlayers for High-Performance Silicon-Organic Heterojunction Solar Cells. <i>ACS Nano</i> , <b>2017</b> , 11, 7215-7222	16.7	50
22	A rhodium/silicon co-electrocatalyst design concept to surpass platinum hydrogen evolution activity at high overpotentials. <i>Nature Communications</i> , <b>2016</b> , 7, 12272	17.4	195
21	Organometal Halide Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4797-4802	15.6	196
20	Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability. <i>Advanced Materials</i> , <b>2016</b> , 28, 2201-8	24	283
19	High Performance Nanostructured Silicon-Organic Quasi p-n Junction Solar Cells via Low-Temperature Deposited Hole and Electron Selective Layer. <i>ACS Nano</i> , <b>2016</b> , 10, 704-12	16.7	66
18	Nanostructured Si/Organic Heterojunction Solar Cells with High Open-Circuit Voltage via Improving Junction Quality. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5035-5041	15.6	77
17	Water splitting. Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. <i>Science</i> , <b>2015</b> , 347, 970-4	33.3	3101
16	A surface curvature oscillation model for vapour-liquid-solid growth of periodic one-dimensional nanostructures. <i>Nature Communications</i> , <b>2015</b> , 6, 6412	17.4	25
15	Thin-Layer Fe <sub>2</sub> TiO <sub>5</sub> on Hematite for Efficient Solar Water Oxidation. <i>ACS Nano</i> , <b>2015</b> , 9, 5348-56	16.7	102
14	High efficiency hybrid PEDOT:PSS/nanostructured silicon Schottky junction solar cells by doping-free rear contact. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 297-302	35.4	196
13	Efficiently Releasing the Trapped Energy Flow in White Organic Light-Emitting Diodes with Multifunctional Nanofunnel Arrays. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2660-2668	15.6	41

12	A 12%-efficient upgraded metallurgical grade silicon-organic heterojunction solar cell achieved by a self-purifying process. <i>ACS Nano</i> , <b>2014</b> , 8, 11369-76	16.7	57
11	Extremely Efficient White Organic Light-Emitting Diodes for General Lighting. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7249-7256	15.6	130
10	13.8% Efficiency hybrid Si/organic heterojunction solar cells with MoO <sub>3</sub> film as antireflection and inversion induced layer. <i>Advanced Materials</i> , <b>2014</b> , 26, 6007-12	24	149
9	Plasmonic enhancement in hybrid organic/Si heterojunction solar cells enabled by embedded gold nanoparticles. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 241110	3.4	14
8	High-performance flexible organic light-emitting diodes using embedded silver network transparent electrodes. <i>ACS Nano</i> , <b>2014</b> , 8, 12796-805	16.7	126
7	Heterojunction with Organic Thin Layers on Silicon for Record Efficiency Hybrid Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300923	21.8	93
6	Hole electrical transporting properties in organic-Si Schottky solar cell. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 013504	3.4	24
5	Ti-doped hematite nanostructures for solar water splitting with high efficiency. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 084312	2.5	92
4	Hybrid heterojunction solar cell based on organic-inorganic silicon nanowire array architecture. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19408-15	16.4	249
3	Water-soluble fluorescent carbon quantum dots and photocatalyst design. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4430-4	16.4	1947
2	Surface-Dominated Transport Properties of Silicon Nanowires. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3251-3257	15.6	161
1	Revealing Hydrogen Evolution Performance of Single-Atom Platinum Electrocatalyst with Polyoxometalate Molecular Models. <i>ACS Energy Letters</i> , 4055-4062	20.1	3