

Shuit-Tong Lee

List of Publications by Citations

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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 | Water splitting. Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. <i>Science</i> , 2015 , 347, 970-4 | 33.3 | 3101 |
| 46 | Water-soluble fluorescent carbon quantum dots and photocatalyst design. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4430-4 | 16.4 | 1947 |
| 45 | Ligand Mediated Transformation of Cesium Lead Bromide Perovskite Nanocrystals to Lead Depleted CsPbBr Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5309-5312 | 16.4 | 301 |
| 44 | Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability. <i>Advanced Materials</i> , 2016 , 28, 2201-8 | 24 | 283 |
| 43 | Hybrid heterojunction solar cell based on organic-inorganic silicon nanowire array architecture. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19408-15 | 16.4 | 249 |
| 42 | Liquid-Metal-Based Super-Stretchable and Structure-Designable Triboelectric Nanogenerator for Wearable Electronics. <i>ACS Nano</i> , 2018 , 12, 2027-2034 | 16.7 | 247 |
| 41 | High efficiency hybrid PEDOT:PSS/nanostructured silicon Schottky junction solar cells by doping-free rear contact. <i>Energy and Environmental Science</i> , 2015 , 8, 297-302 | 35.4 | 196 |
| 40 | Organometal Halide Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 4797-4802 | 15.6 | 196 |
| 39 | A rhodium/silicon co-electrocatalyst design concept to surpass platinum hydrogen evolution activity at high overpotentials. <i>Nature Communications</i> , 2016 , 7, 12272 | 17.4 | 195 |
| 38 | Ultrahigh-Responsivity Photodetectors from Perovskite Nanowire Arrays for Sequentially Tunable Spectral Measurement. <i>Nano Letters</i> , 2017 , 17, 2482-2489 | 11.5 | 184 |
| 37 | Surface-Dominated Transport Properties of Silicon Nanowires. <i>Advanced Functional Materials</i> , 2008 , 18, 3251-3257 | 15.6 | 161 |
| 36 | Janus Structures of Transition Metal Dichalcogenides as the Heterojunction Photocatalysts for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3123-3129 | 3.8 | 160 |
| 35 | Integrating a Silicon Solar Cell with a Triboelectric Nanogenerator via a Mutual Electrode for Harvesting Energy from Sunlight and Raindrops. <i>ACS Nano</i> , 2018 , 12, 2893-2899 | 16.7 | 155 |
| 34 | 13.8% Efficiency hybrid Si/organic heterojunction solar cells with MoO ₃ film as antireflection and inversion induced layer. <i>Advanced Materials</i> , 2014 , 26, 6007-12 | 24 | 149 |
| 33 | High-Efficiency Perovskite Light-Emitting Diodes with Synergetic Outcoupling Enhancement. <i>Advanced Materials</i> , 2019 , 31, e1901517 | 24 | 130 |
| 32 | Extremely Efficient White Organic Light-Emitting Diodes for General Lighting. <i>Advanced Functional Materials</i> , 2014 , 24, 7249-7256 | 15.6 | 130 |
| 31 | High-performance flexible organic light-emitting diodes using embedded silver network transparent electrodes. <i>ACS Nano</i> , 2014 , 8, 12796-805 | 16.7 | 126 |

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| 30 | Carbon dots: advances in nanocarbon applications. <i>Nanoscale</i> , 2019 , 11, 19214-19224 | 7.7 | 122 |
| 29 | Silicon Nanowire/Polymer Hybrid Solar Cell-Supercapacitor: A Self-Charging Power Unit with a Total Efficiency of 10.5. <i>Nano Letters</i> , 2017 , 17, 4240-4247 | 11.5 | 106 |
| 28 | Thin-Layer Fe ₂ TiO ₅ on Hematite for Efficient Solar Water Oxidation. <i>ACS Nano</i> , 2015 , 9, 5348-56 | 16.7 | 102 |
| 27 | Heterojunction with Organic Thin Layers on Silicon for Record Efficiency Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1300923 | 21.8 | 93 |
| 26 | Ti-doped hematite nanostructures for solar water splitting with high efficiency. <i>Journal of Applied Physics</i> , 2012 , 112, 084312 | 2.5 | 92 |
| 25 | Impacts of Carbon Dots on Rice Plants: Boosting the Growth and Improving the Disease Resistance.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 663-672 | 4.1 | 85 |
| 24 | Nanostructured Si/Organic Heterojunction Solar Cells with High Open-Circuit Voltage via Improving Junction Quality. <i>Advanced Functional Materials</i> , 2016 , 26, 5035-5041 | 15.6 | 77 |
| 23 | High Performance Nanostructured Silicon-Organic Quasi p-n Junction Solar Cells via Low-Temperature Deposited Hole and Electron Selective Layer. <i>ACS Nano</i> , 2016 , 10, 704-12 | 16.7 | 66 |
| 22 | Hydroxyl-Group-Dominated Graphite Dots Reshape Laser Desorption/Ionization Mass Spectrometry for Small Biomolecular Analysis and Imaging. <i>ACS Nano</i> , 2017 , 11, 9500-9513 | 16.7 | 59 |
| 21 | Rational Interface Engineering for Efficient Flexible Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , 2020 , 14, 6107-6116 | 16.7 | 58 |
| 20 | Approaching the Volcano Top: Iridium/Silicon Nanocomposites as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2019 , 13, 2786-2794 | 16.7 | 57 |
| 19 | A 12%-efficient upgraded metallurgical grade silicon-organic heterojunction solar cell achieved by a self-purifying process. <i>ACS Nano</i> , 2014 , 8, 11369-76 | 16.7 | 57 |
| 18 | Low-temperature synthesis TiO _x passivation layer for organic-silicon heterojunction solar cell with a high open-circuit voltage. <i>Nano Energy</i> , 2017 , 34, 257-263 | 17.1 | 52 |
| 17 | Naphthalene Diimide-Based n-Type Polymers: Efficient Rear Interlayers for High-Performance Silicon-Organic Heterojunction Solar Cells. <i>ACS Nano</i> , 2017 , 11, 7215-7222 | 16.7 | 50 |
| 16 | Triboelectric Nanogenerator Driven Self-Powered Photoelectrochemical Water Splitting Based on Hematite Photoanodes. <i>ACS Nano</i> , 2018 , 12, 8625-8632 | 16.7 | 44 |
| 15 | Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. <i>ACS Nano</i> , 2019 , 13, 5910-5919 | 16.7 | 43 |
| 14 | Efficiently Releasing the Trapped Energy Flow in White Organic Light-Emitting Diodes with Multifunctional Nanofunnel Arrays. <i>Advanced Functional Materials</i> , 2015 , 25, 2660-2668 | 15.6 | 41 |
| 13 | Fe ₂ TiO ₅ -incorporated hematite with surface P-modification for high-efficiency solar water splitting. <i>Nano Energy</i> , 2017 , 32, 526-532 | 17.1 | 37 |

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| 12 | Single Vanadium Atoms Anchored on Graphitic Carbon Nitride as a High-Performance Catalyst for Non-oxidative Propane Dehydrogenation. <i>ACS Nano</i> , 2020 , 14, 5772-5779 | 16.7 | 31 |
| 11 | A surface curvature oscillation model for vapour-liquid-solid growth of periodic one-dimensional nanostructures. <i>Nature Communications</i> , 2015 , 6, 6412 | 17.4 | 25 |
| 10 | Hole electrical transporting properties in organic-Si Schottky solar cell. <i>Applied Physics Letters</i> , 2013 , 103, 013504 | 3.4 | 24 |
| 9 | Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , 2017 , 17, 7323-7329 | 11.5 | 23 |
| 8 | Buried MoO ₃ /Ag Electrode Enables High-Efficiency Organic/Silicon Heterojunction Solar Cells with a High Fill Factor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13767-13773 | 9.5 | 22 |
| 7 | High-Performance Ultrathin Organic-Inorganic Hybrid Silicon Solar Cells via Solution-Processed Interface Modification. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21723-21729 | 9.5 | 16 |
| 6 | Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. <i>ACS Nano</i> , 2021 , 15, 7472-7481 | 16.7 | 15 |
| 5 | Plasmonic enhancement in hybrid organic/Si heterojunction solar cells enabled by embedded gold nanoparticles. <i>Applied Physics Letters</i> , 2014 , 105, 241110 | 3.4 | 14 |
| 4 | Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126 | 16.7 | 3 |
| 3 | Connecting Together Nanocenters around the World. <i>ACS Nano</i> , 2017 , 11, 8531-8532 | 16.7 | 3 |
| 2 | Revealing Hydrogen Evolution Performance of Single-Atom Platinum Electrocatalyst with Polyoxometalate Molecular Models. <i>ACS Energy Letters</i> , 4055-4062 | 20.1 | 3 |
| 1 | The Inhibition of SARS-CoV-2 3CL M by Graphene and Its Derivatives from Molecular Dynamics Simulations.. <i>ACS Applied Materials & Interfaces</i> , 2021 , | 9.5 | 1 |