

# Siu-Fung Leung

## List of Publications by Citations

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38  
papers

2,424  
citations

23  
h-index

40  
g-index

40  
ext. papers

2,772  
ext. citations

13.7  
avg, IF

5  
L-index

#	Paper	IF	Citations
38	Efficient photoelectrochemical water splitting with ultrathin films of hematite on three-dimensional nanophotonic structures. <i>Nano Letters</i> , <b>2014</b> , 14, 2123-9	11.5	277
37	A Self-Powered and Flexible Organometallic Halide Perovskite Photodetector with Very High Detectivity. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704611	24	245
36	Nanomaterials and nanostructures for efficient light absorption and photovoltaics. <i>Nano Energy</i> , <b>2012</b> , 1, 57-72	17.1	219
35	Integrated Photo-supercapacitor Based on Bi-polar TiO <sub>2</sub> Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1840-1846	15.6	140
34	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal $\text{InSe}$ . <i>ACS Nano</i> , <b>2018</b> , 12, 4976-4983	13.7	133
33	Light Management with Nanostructures for Optoelectronic Devices. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1479-95	6.4	127
32	Efficient photon capturing with ordered three-dimensional nanowell arrays. <i>Nano Letters</i> , <b>2012</b> , 12, 3682-3685	11.5	125
31	Efficient metal halide perovskite light-emitting diodes with significantly improved light extraction on nanophotonic substrates. <i>Nature Communications</i> , <b>2019</b> , 10, 727	17.4	124
30	Efficient light absorption with integrated nanopillar/nanowell arrays for three-dimensional thin-film photovoltaic applications. <i>ACS Nano</i> , <b>2013</b> , 7, 2725-32	16.7	96
29	Efficient, flexible and mechanically robust perovskite solar cells on inverted nanocone plastic substrates. <i>Nanoscale</i> , <b>2016</b> , 8, 4276-83	7.7	89
28	Fully Inkjet-Printed Photodetector Using a Graphene/Perovskite/Graphene Heterostructure. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 2657-2661	2.9	87
27	Inverted nanocone-based thin film photovoltaics with omnidirectionally enhanced performance. <i>ACS Nano</i> , <b>2014</b> , 8, 6484-90	16.7	74
26	Strong light absorption of self-organized 3-D nanospike arrays for photovoltaic applications. <i>ACS Nano</i> , <b>2011</b> , 5, 9291-8	16.7	71
25	A leaf-inspired photon management scheme using optically tuned bilayer nanoparticles for ultra-thin and highly efficient photovoltaic devices. <i>Nano Energy</i> , <b>2019</b> , 58, 47-56	17.1	68
24	Performance enhancement of thin-film amorphous silicon solar cells with low cost nanodent plasmonic substrates. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2965	35.4	67
23	Roll-to-roll fabrication of large scale and regular arrays of three-dimensional nanospikes for high efficiency and flexible photovoltaics. <i>Scientific Reports</i> , <b>2014</b> , 4, 4243	4.9	57
22	Blue energy fuels: converting ocean wave energy to carbon-based liquid fuels via CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1300-1308	35.4	56

21	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , <b>2014</b> , 6, 3626-31	7.7	50
20	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO <sub>2</sub> /Au/MnO <sub>2</sub> nanospire arrays. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10199-10204	13	47
19	Large scale, flexible and three-dimensional quasi-ordered aluminum nanospikes for thin film photovoltaics with omnidirectional light trapping and optimized electrical design. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3611-3616	35.4	41
18	Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices. <i>Small</i> , <b>2016</b> , 12, 2536-48	14	38
17	Fast Single-Cell Patterning for Study of Drug-Induced Phenotypic Alterations of HeLa Cells Using Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12196-12203	7.8	30
16	Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804372	24	29
15	Programmable nanoengineering templates for fabrication of three-dimensional nanophotonic structures. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 268	5	23
14	Low-cost, flexible, disinfectant-free and regular-array three-dimensional nanopyramid antibacterial films for clinical applications. <i>Nanoscale</i> , <b>2018</b> , 10, 10436-10442	7.7	17
13	Performance improvement of solution-processed CdS/CdTe solar cells with a thin compact TiO <sub>2</sub> buffer layer. <i>Science Bulletin</i> , <b>2016</b> , 61, 86-91	10.6	15
12	Photo-carrier extraction by triboelectricity for carrier transport layer-free photodetectors. <i>Nano Energy</i> , <b>2019</b> , 65, 103958	17.1	13
11	Enhanced Charge Collection for Splitting of Water Enabled by an Engineered Three-Dimensional Nanospire Array. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 22465-22472	3.8	13
10	Nanobowl optical concentrator for efficient light trapping and high-performance organic photovoltaics. <i>Science Bulletin</i> , <b>2015</b> , 60, 109-115	10.6	13
9	Electric field enhanced 3D scalable low-voltage nano-spire electroporation system. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 255, 10-20	3.9	8
8	Large-scale, adhesive-free and omnidirectional 3D nanocone anti-reflection films for high performance photovoltaics. <i>Journal of Semiconductors</i> , <b>2019</b> , 40, 042601	2.3	6
7	Supercapacitors: Integrated Photo-supercapacitor Based on Bi-polar TiO <sub>2</sub> Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation (Adv. Funct. Mater. 13/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1814-1814	15.6	6
6	An Aluminum Nano-Spire electroporation chip for low voltage delivery of molecules to cancer cells <b>2014</b> ,		6
5	. <i>Journal of Microelectromechanical Systems</i> , <b>2017</b> , 26, 910-920	2.5	5
4	2D Layered Perovskites: Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example (Adv. Mater. 46/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 18703514	14	3

3	Low-cost Nano-spike Bio-Impedance Sensor (NBIS) without surface functionalization for detection and phenotyping of cancer cells <b>2015</b> ,		2
2	Solar Energy: Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices (Small 19/2016). <i>Small</i> , <b>2016</b> , 12, 2530-2530	11	2
1	Optimization of multiple-pulse ultra-low voltage Nanospikes electroporation chips using feedback system control for efficient delivery of molecules to cancer cells <b>2015</b> ,		2