Siu-Fung Leung

List of Publications by Year in Descending Order

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	Blue energy fuels: converting ocean wave energy to carbon-based liquid fuels via CO2 reduction. *Energy and Environmental Science*, **2020**, 13, 1300-1308	35.4	56
37	Fully Inkjet-Printed Photodetector Using a Graphene/Perovskite/Graphene Heterostructure. *IEEE Transactions on Electron Devices*, **2019**, 66, 2657-2661	2.9	87
36	Large-scale, adhesive-free and omnidirectional 3D nanocone anti-reflection films for high performance photovoltaics. *Journal of Semiconductors*, **2019**, 40, 042601	2.3	6
35	Photo-carrier extraction by triboelectricity for carrier transport layer-free photodetectors. *Nano Energy*, **2019**, 65, 103958	17.1	13
34	Efficient metal halide perovskite light-emitting diodes with significantly improved light extraction on nanophotonic substrates. *Nature Communications*, **2019**, 10, 727	17.4	124
33	A leaf-inspired photon management scheme using optically tuned bilayer nanoparticles for ultra-thin and highly efficient photovoltaic devices. *Nano Energy*, **2019**, 58, 47-56	17.1	68
32	Low-cost, flexible, disinfectant-free and regular-array three-dimensional nanopyramid antibacterial films for clinical applications. *Nanoscale*, **2018**, 10, 10436-10442	7.7	17
31	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal □nSe. *ACS Nano*, **2018**, 12, 4976-4983	13.7	133
30	A Self-Powered and Flexible Organometallic Halide Perovskite Photodetector with Very High Detectivity. *Advanced Materials*, **2018**, 30, 1704611	24	245
29	2D Layered Perovskites: Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example (Adv. Mater. 46/2018). *Advanced Materials*, **2018**, 30, 1870351	24	3
28	Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example. *Advanced Materials*, **2018**, 30, e1804372	24	29
27	. *Journal of Microelectromechanical Systems*, **2017**, 26, 910-920	2.5	5
26	Electric field enhanced 3D scalable low-voltage nano-spike electroporation system. *Sensors and Actuators A: Physical*, **2017**, 255, 10-20	3.9	8
25	Fast Single-Cell Patterning for Study of Drug-Induced Phenotypic Alterations of HeLa Cells Using Time-of-Flight Secondary Ion Mass Spectrometry. *Analytical Chemistry*, **2016**, 88, 12196-12203	7.8	30
24	Solar Energy: Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices (Small 19/2016). *Small*, **2016**, 12, 2530-2530	11	2
23	Performance improvement of solution-processed CdS/CdTe solar cells with a thin compact TiO 2 buffer layer. *Science Bulletin*, **2016**, 61, 86-91	10.6	15
22	Efficient, flexible and mechanically robust perovskite solar cells on inverted nanocone plastic substrates. *Nanoscale*, **2016**, 8, 4276-83	7.7	89

21	Progress and Design Concerns of Nanostructured Solar Energy Harvesting Devices. *Small*, **2016**, 12, 2536-48	[illegible]	38
20	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO2/Au/MnO2 nanospike arrays. *Journal of Materials Chemistry A*, **2015**, 3, 10199-10204	13	47
19	Low-cost Nano-spike Bio-Impedance Sensor (NBIS) without surface functionalization for detection and phenotyping of cancer cells **2015**,		2
18	Optimization of multiple-pulse ultra-low voltage Nanospike electroporation chips using feedback system control for efficient delivery of molecules to cancer cells **2015**,		2
17	Nanobowl optical concentrator for efficient light trapping and high-performance organic photovoltaics. *Science Bulletin*, **2015**, 60, 109-115	10.6	13
16	Roll-to-roll fabrication of large scale and regular arrays of three-dimensional nanospikes for high efficiency and flexible photovoltaics. *Scientific Reports*, **2014**, 4, 4243	4.9	57
15	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. *Nanoscale*, **2014**, 6, 3626-31	7.7	50
14	Supercapacitors: Integrated Photo-supercapacitor Based on Bi-polar TiO2 Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation (Adv. Funct. Mater. 13/2014). *Advanced Functional Materials*, **2014**, 24, 1814-1814	15.6	6
13	Large scale, flexible and three-dimensional quasi-ordered aluminum nanospikes for thin film photovoltaics with omnidirectional light trapping and optimized electrical design. *Energy and Environmental Science*, **2014**, 7, 3611-3616	35.4	41
12	An Aluminum Nano-Spike electroporation chip for low voltage delivery of molecules to cancer cells **2014**,		6
11	Light Management with Nanostructures for Optoelectronic Devices. *Journal of Physical Chemistry Letters*, **2014**, 5, 1479-95	6.4	127
10	Enhanced Charge Collection for Splitting of Water Enabled by an Engineered Three-Dimensional Nanospike Array. *Journal of Physical Chemistry C*, **2014**, 118, 22465-22472	3.8	13
9	Integrated Photo-supercapacitor Based on Bi-polar TiO2 Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation. *Advanced Functional Materials*, **2014**, 24, 1840-1846	15.6	140
8	Efficient photoelectrochemical water splitting with ultrathin films of hematite on three-dimensional nanophotonic structures. *Nano Letters*, **2014**, 14, 2123-9	11.5	277
7	Inverted nanocone-based thin film photovoltaics with omnidirectionally enhanced performance. *ACS Nano*, **2014**, 8, 6484-90	16.7	74
6	Performance enhancement of thin-film amorphous silicon solar cells with low cost nanodent plasmonic substrates. *Energy and Environmental Science*, **2013**, 6, 2965	35.4	67
5	Programmable nanoengineering templates for fabrication of three-dimensional nanophotonic structures. *Nanoscale Research Letters*, **2013**, 8, 268	5	23
4	Efficient light absorption with integrated nanopillar/nanowell arrays for three-dimensional thin-film photovoltaic applications. *ACS Nano*, **2013**, 7, 2725-32	16.7	96

3	Efficient photon capturing with ordered three-dimensional nanowell arrays. *Nano Letters*, **2012**, 12, 3682-9	12.5	125
2	Nanomaterials and nanostructures for efficient light absorption and photovoltaics. *Nano Energy*, **2012**, 1, 57-72	17.1	219
1	Strong light absorption of self-organized 3-D nanospike arrays for photovoltaic applications. *ACS Nano*, **2011**, 5, 9291-8	16.7	71