

# Keng-Ku Liu

## List of Publications by Year in descending order

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47  
papers

6,548  
citations

186254

28  
h-index

265191

42  
g-index

47  
all docs

47  
docs citations

47  
times ranked

10890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth of Large-Area and Highly Crystalline MoS <sub>2</sub> Thin Layers on Insulating Substrates. Nano Letters, 2012, 12, 1538-1544.	9.1	1,749
2	Highly Flexible MoS <sub>2</sub> Thin-Film Transistors with Ion Gel Dielectrics. Nano Letters, 2012, 12, 4013-4017.	9.1	746
3	Wafer-scale MoS <sub>2</sub> thin layers prepared by MoO <sub>3</sub> sulfurization. Nanoscale, 2012, 4, 6637.	5.6	621
4	Few-Layer MoS <sub>2</sub> with High Broadband Photogain and Fast Optical Switching for Use in Harsh Environments. ACS Nano, 2013, 7, 3905-3911.	14.6	584
5	Wood-Inspired Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. ACS Applied Materials & Interfaces, 2017, 9, 7675-7681.	8.0	505
6	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	21.0	457
7	Direct Formation of Wafer Scale Graphene Thin Layers on Insulating Substrates by Chemical Vapor Deposition. Nano Letters, 2011, 11, 3612-3616.	9.1	302
8	Plasmonic Biofoam: A Versatile Optically Active Material. Nano Letters, 2016, 16, 609-616.	9.1	161
9	Label-Free Electrical Detection of DNA Hybridization on Graphene using Hall Effect Measurements: Revisiting the Sensing Mechanism. Advanced Functional Materials, 2013, 23, 2301-2307.	14.9	114
10	Size-Dependent Surface Enhanced Raman Scattering Activity of Plasmonic Nanorattles. Chemistry of Materials, 2015, 27, 5261-5270.	6.7	82
11	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. Scientific Reports, 2015, 5, 16206.	3.3	82
12	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. RSC Advances, 2012, 2, 111-115.	3.6	72
13	Bacterial Nanocellulose-Based Flexible Surface Enhanced Raman Scattering Substrate. Advanced Materials Interfaces, 2016, 3, 1600214.	3.7	72
14	Plasmonic Nanorattles with Intrinsic Electromagnetic Hot Spots for Surface Enhanced Raman Scattering. Small, 2014, 10, 4287-4292.	10.0	69
15	Hydrophilic, Bactericidal Nanoheater-Enabled Reverse Osmosis Membranes to Improve Fouling Resistance. ACS Applied Materials & Interfaces, 2015, 7, 11117-11126.	8.0	67
16	Nanoantenna-Inspired Microcavity Hybrids with Highly Cooperative Plasmonic-Photonic Coupling. Nano Letters, 2017, 17, 7569-7577.	9.1	64
17	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose. RSC Advances, 2018, 8, 31296-31302.	3.6	62
18	Catalytically Active Bacterial Nanocellulose-Based Ultrafiltration Membrane. Small, 2018, 14, e1704006.	10.0	59

#	ARTICLE	IF	CITATIONS
19	Add-on plasmonic patch as a universal fluorescence enhancer. <i>Light: Science and Applications</i> , 2018, 7, 29.	16.6	58
20	Metal-Organic Framework as a Protective Coating for Biodiagnostic Chips. <i>Advanced Materials</i> , 2017, 29, 1604433.	21.0	56
21	Photothermally Active Reduced Graphene Oxide/Bacterial Nanocellulose Composites as Biofouling-Resistant Ultrafiltration Membranes. <i>Environmental Science &amp; Technology</i> , 2019, 53, 412-421.	10.0	56
22	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13976-13982.	10.3	53
23	Plasmonic Nanogels for Unclonable Optical Tagging. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4031-4041.	8.0	46
24	PEGylated Artificial Antibodies: Plasmonic Biosensors with Improved Selectivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23509-23516.	8.0	40
25	Electrical Probing of Submicroliter Liquid Using Graphene Strip Transistors Built on a Nanopipette. <i>Small</i> , 2012, 8, 43-46.	10.0	38
26	Gold nanocages with built-in artificial antibodies for label-free plasmonic biosensing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 167-170.	5.8	38
27	Multiplexed charge-selective surface enhanced Raman scattering based on plasmonic calligraphy. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5438.	5.5	38
28	Gold Nanorod Size-Dependent Fluorescence Enhancement for Ultrasensitive Fluoroimmunoassays. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 11414-11423.	8.0	29
29	Transfer printing of graphene strip from the graphene grown on copper wires. <i>Nanotechnology</i> , 2011, 22, 185309.	2.6	28
30	Shape-Dependent Biodistribution of Biocompatible Silk Microcapsules. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5499-5508.	8.0	27
31	Bioplasmonic calligraphy for multiplexed label-free biodetection. <i>Biosensors and Bioelectronics</i> , 2014, 59, 208-215.	10.1	26
32	Plasmonic paper: a porous and flexible substrate enabling nanoparticle-based combinatorial chemistry. <i>RSC Advances</i> , 2016, 6, 4136-4144.	3.6	21
33	Silk-Encapsulated Plasmonic Biochips with Enhanced Thermal Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26493-26500.	8.0	20
34	Polarization-Dependent Surface-Enhanced Raman Scattering Activity of Anisotropic Plasmonic Nanorattles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16899-16906.	3.1	18
35	Influence of Surface Charge of the Nanostructures on the Biocatalytic Activity. <i>Langmuir</i> , 2017, 33, 6611-6619.	3.5	15
36	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. <i>Scientific Reports</i> , 2015, 5, .	3.3	15

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37	Foams: Bilayered Biofoam for Highly Efficient Solar Steam Generation (Adv. Mater. 42/2016). Advanced Materials, 2016, 28, 9234-9234.	21.0	13
38	Structure-dependent SERS activity of plasmonic nanorattles with built-in electromagnetic hotspots. Analyst, The, 2017, 142, 4536-4543.	3.5	13
39	Efficient reduction of graphene oxide catalyzed by copper. Physical Chemistry Chemical Physics, 2012, 14, 3083.	2.8	12
40	Self-Powered Forward Error-Correcting Biosensor Based on Integration of Paper-Based Microfluidics and Self-Assembled Quick Response Codes. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 963-971.	4.0	12
41	Elastoplastic Deformation of Silk Micro- and Nanostructures. ACS Biomaterials Science and Engineering, 2016, 2, 893-899.	5.2	5
42	Towards an Integrated QR Code Biosensor: Light-Driven Sample Acquisition and Bacterial Cellulose Paper Substrate. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 452-460.	4.0	2
43	Nanoantenna-microcavity hybrid resonators with highly cooperative plasmonic-photonic coupling. , 2017, , .		1
44	Photonic crystal coupled plasmonic hybrid nanosensors. , 2016, , .		0
45	Nanocellulose Films: Bacterial Nanocellulose-Based Flexible Surface Enhanced Raman Scattering Substrate (Adv. Mater. Interfaces 15/2016). Advanced Materials Interfaces, 2016, 3, .	3.7	0
46	Boosting Local Field Enhancement by Synergistic Nanoantenna-Microcavity Coupling. , 2018, , .		0
47	Resonant coupling from photonic crystal surfaces to plasmonic nanoantennas: principles, detection instruments, and applications in digital resolution biosensing. , 2018, , .		0