

Keng-Ku Liu

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.

42 papers	5,484 citations	27 h-index	47 g-index
47 ext. papers	6,034 ext. citations	9.5 avg, IF	5.43 L-index

#	Paper	IF	Citations
42	Gold Nanorod Size-Dependent Fluorescence Enhancement for Ultrasensitive Fluoroimmunoassays. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11414-11423	9.5	6
41	Photothermally Active Reduced Graphene Oxide/Bacterial Nanocellulose Composites as Biofouling-Resistant Ultrafiltration Membranes. <i>Environmental Science & Technology</i> , 2019 , 53, 412-421	19.3	39
40	Shape-Dependent Biodistribution of Biocompatible Silk Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5499-5508	9.5	20
39	Catalytically Active Bacterial Nanocellulose-Based Ultrafiltration Membrane. <i>Small</i> , 2018 , 14, e1704006	11	45
38	Towards an Integrated QR Code Biosensor: Light-Driven Sample Acquisition and Bacterial Cellulose Paper Substrate. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 452-460	5.1	2
37	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose.. <i>RSC Advances</i> , 2018 , 8, 31296-31302	3.7	48
36	Add-on plasmonic patch as a universal fluorescence enhancer. <i>Light: Science and Applications</i> , 2018 , 7, 29	16.7	43
35	Wood-Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7675-7681	9.5	388
34	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13976-13982	13	42
33	Influence of Surface Charge of the Nanostructures on the Biocatalytic Activity. <i>Langmuir</i> , 2017 , 33, 6611-6619	11	46
32	Metal-Organic Framework as a Protective Coating for Biodiagnostic Chips. <i>Advanced Materials</i> , 2017 , 29, 1604433	24	44
31	Nanoantenna-Microcavity Hybrids with Highly Cooperative Plasmonic-Photonic Coupling. <i>Nano Letters</i> , 2017 , 17, 7569-7577	11.5	41
30	Structure-dependent SERS activity of plasmonic nanorattles with built-in electromagnetic hotspots. <i>Analyst, The</i> , 2017 , 142, 4536-4543	5	6
29	Silk-Encapsulated Plasmonic Biochips with Enhanced Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26493-26500	9.5	15
28	Bilayered Biofoam for Highly Efficient Solar Steam Generation. <i>Advanced Materials</i> , 2016 , 28, 9400-9407	24	372
27	Foams: Bilayered Biofoam for Highly Efficient Solar Steam Generation (Adv. Mater. 42/2016). <i>Advanced Materials</i> , 2016 , 28, 9234-9234	24	12
26	Plasmonic Biofoam: A Versatile Optically Active Material. <i>Nano Letters</i> , 2016 , 16, 609-16	11.5	140

25	Plasmonic Nanogels for Unclonable Optical Tagging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4031-41	9.5	29
24	Plasmonic paper: a porous and flexible substrate enabling nanoparticle-based combinatorial chemistry. <i>RSC Advances</i> , 2016 , 6, 4136-4144	3.7	19
23	Bacterial Nanocellulose-Based Flexible Surface Enhanced Raman Scattering Substrate. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600214	4.6	49
22	Polarization-Dependent Surface-Enhanced Raman Scattering Activity of Anisotropic Plasmonic Nanorattles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16899-16906	3.8	14
21	Elastoplastic Deformation of Silk Micro- and Nanostructures. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 893-899	5.5	5
20	PEGylated Artificial Antibodies: Plasmonic Biosensors with Improved Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23509-16	9.5	34
19	Self-Powered Forward Error-Correcting Biosensor Based on Integration of Paper-Based Microfluidics and Self-Assembled Quick Response Codes. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 963-971	5.1	9
18	Size-Dependent Surface Enhanced Raman Scattering Activity of Plasmonic Nanorattles. <i>Chemistry of Materials</i> , 2015 , 27, 5261-5270	9.6	61
17	Hydrophilic, bactericidal nanoheater-enabled reverse osmosis membranes to improve fouling resistance. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11117-26	9.5	54
16	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. <i>Scientific Reports</i> , 2015 , 5, 16206	4.9	63
15	Bioplasmonic calligraphy for multiplexed label-free biodetection. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 208-15	11.8	23
14	Gold nanocages with built-in artificial antibodies for label-free plasmonic biosensing. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 167-170	7.3	30
13	Multiplexed charge-selective surface enhanced Raman scattering based on plasmonic calligraphy. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5438	7.1	33
12	Plasmonic nanorattles with intrinsic electromagnetic hot-spots for surface enhanced Raman scattering. <i>Small</i> , 2014 , 10, 4287-92	11	55
11	Label-Free Electrical Detection of DNA Hybridization on Graphene using Hall Effect Measurements: Revisiting the Sensing Mechanism. <i>Advanced Functional Materials</i> , 2013 , 23, 2301-2307	15.6	94
10	Few-Layer MoS ₂ with high broadband Photogain and fast optical switching for use in harsh environments. <i>ACS Nano</i> , 2013 , 7, 3905-11	16.7	482
9	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. <i>RSC Advances</i> , 2012 , 2, 111-115	3.7	66
8	Wafer-scale MoS ₂ thin layers prepared by MoO ₃ sulfurization. <i>Nanoscale</i> , 2012 , 4, 6637-41	7.7	538

7	Highly flexible MoS ₂ thin-film transistors with ion gel dielectrics. <i>Nano Letters</i> , 2012 , 12, 4013-7	11.5	663
6	Electrical probing of submicroliter liquid using graphene strip transistors built on a nanopipette. <i>Small</i> , 2012 , 8, 43-6	11	31
5	Efficient reduction of graphene oxide catalyzed by copper. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3083-8	3.6	11
4	Growth of large-area and highly crystalline MoS ₂ thin layers on insulating substrates. <i>Nano Letters</i> , 2012 , 12, 1538-44	11.5	1552
3	Direct formation of wafer scale graphene thin layers on insulating substrates by chemical vapor deposition. <i>Nano Letters</i> , 2011 , 11, 3612-6	11.5	254
2	Transfer printing of graphene strip from the graphene grown on copper wires. <i>Nanotechnology</i> , 2011 , 22, 185309	3.4	26
1	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices		15