Keng-Ku Liu

List of Publications by Year
in descending order

47 papers	6,548 citations	186265 28 h-index	265206 42 g-index
47 all docs	47 docs citations	47 times ranked	10890 citing authors

#	Article	IF	Citations
1	Gold Nanorod Size-Dependent Fluorescence Enhancement for Ultrasensitive Fluoroimmunoassays. ACS Applied Materials & Interfaces, 2021, 13, 11414-11423.	8.0	29
2	Photothermally Active Reduced Graphene Oxide/Bacterial Nanocellulose Composites as Biofouling-Resistant Ultrafiltration Membranes. Environmental Science & Technology, 2019, 53, 412-421.	10.0	56
3	Shape-Dependent Biodistribution of Biocompatible Silk Microcapsules. ACS Applied Materials & Interfaces, 2019, 11, 5499-5508.	8.0	27
4	Catalytically Active Bacterial Nanocelluloseâ€Based Ultrafiltration Membrane. Small, 2018, 14, e1704006.	10.0	59
5	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
6	Flexible solid-state supercapacitor based on tin oxide/reduced graphene oxide/bacterial nanocellulose. RSC Advances, 2018, 8, 31296-31302.	3.6	62
7	Add-on plasmonic patch as a universal fluorescence enhancer. Light: Science and Applications, 2018, 7, 29.	16.6	58
8	Boosting Local Field Enhancement by Synergistic Nanoantennaâ^'Microcavity Coupling. , 2018, , .		0
9	Resonant coupling from photonic crystal surfaces to plasmonic nanoantennas: principles, detection instruments, and applications in digital resolution biosensing. , 2018, , .		0
10	Woodâ€“Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. ACS Applied Materials & Interfaces, 2017, 9, 7675-7681.	8.0	505
11	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. Journal of Materials Chemistry A, 2017, 5, 13976-13982.	10.3	53
12	Influence of Surface Charge of the Nanostructures on the Biocatalytic Activity. Langmuir, 2017, 33, 6611-6619.	3.5	15
13	Metalâ€Organic Framework as a Protective Coating for Biodiagnostic Chips. Advanced Materials, 2017, 29, 1604433.	21.0	56
14	Nanoantennaâ€“Microcavity Hybrids with Highly Cooperative Plasmonicâ€–Photonic Coupling. Nano Letters, 2017, 17, 7569-7577.	9.1	64
15	Structure-dependent SERS activity of plasmonic nanorattles with built-in electromagnetic hotspots. Analyst, The, 2017, 142, 4536-4543.	3.5	13
16	Nanoantenna-microcavity hybrid resonators with highly cooperative plasmonic-photonic coupling. , 2017, , .		1
17	Bacterial Nanocelluloseâ€Based Flexible Surface Enhanced Raman Scattering Substrate. Advanced Materials Interfaces, 2016, 3, 1600214.	3.7	72
18	Polarization-Dependent Surface-Enhanced Raman Scattering Activity of Anisotropic Plasmonic Nanorattles. Journal of Physical Chemistry C, 2016, 120, 16899-16906.	3.1	18

#	Article	IF	Citations
19	Photonic crystal coupled plasmonic hybrid nanosensors. , 2016, , .		0
20	Elastoplastic Deformation of Silk Micro- and Nanostructures. ACS Biomaterials Science and Engineering, 2016, 2, 893-899.	5.2	5
21	PEGylated Artificial Antibodies: Plasmonic Biosensors with Improved Selectivity. ACS Applied Materials & Interfaces, 2016, 8, 23509-23516.	8.0	40
22	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
23	Nanocellulose Films: Bacterial Nanocellulose-Based Flexible Surface Enhanced Raman Scattering Substrate (Adv. Mater. Interfaces 15/2016). Advanced Materials Interfaces, 2016, 3, .	3.7	0
24	Silk-Encapsulated Plasmonic Biochips with Enhanced Thermal Stability. ACS Applied Materials & Interfaces, 2016, 8, 26493-26500.	8.0	20
25	Bilayered Biofoam for Highly Efficient Solar Steam Generation. Advanced Materials, 2016, 28, 9400-9407.	21.0	457
26	Foams: Bilayered Biofoam for Highly Efficient Solar Steam Generation (Adv. Mater. 42/2016). Advanced Materials, 2016, 28, 9234-9234.	21.0	13
27	Plasmonic Biofoam: A Versatile Optically Active Material. Nano Letters, 2016, 16, 609-616.	9.1	161
28	Plasmonic Nanogels for Unclonable Optical Tagging. ACS Applied Materials & Interfaces, 2016, 8, 4031-4041.	8.0	46
29	Plasmonic paper: a porous and flexible substrate enabling nanoparticle-based combinatorial chemistry. RSC Advances, 2016, 6, 4136-4144.	3.6	21
30	Size-Dependent Surface Enhanced Raman Scattering Activity of Plasmonic Nanorattles. Chemistry of Materials, 2015, 27, 5261-5270.	6.7	82
31	Hydrophilic, Bactericidal Nanoheater-Enabled Reverse Osmosis Membranes to Improve Fouling Resistance. ACS Applied Materials & Interfaces, 2015, 7, 11117-11126.	8.0	67
32	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. Scientific Reports, 2015, 5, 16206.	3.3	82
33	Peptide Functionalized Gold Nanorods for the Sensitive Detection of a Cardiac Biomarker Using Plasmonic Paper Devices. Scientific Reports, 2015, 5, .	3.3	15
34	Bioplasmonic calligraphy for multiplexed label-free biodetection. Biosensors and Bioelectronics, 2014, 59, 208-215.	10.1	26
35	Gold nanocages with built-in artificial antibodies for label-free plasmonic biosensing. Journal of Materials Chemistry B, 2014, 2, 167-170.	5.8	38
36	Multiplexed charge-selective surface enhanced Raman scattering based on plasmonic calligraphy. Journal of Materials Chemistry C, 2014, 2, 5438.	5.5	38

#	Article	IF	Citations
37	Plasmonic Nanorattles with Intrinsic Electromagnetic Hotâ€Spots for Surface Enhanced Raman Scattering. Small, 2014, 10, 4287-4292.	10.0	69
38	Labelâ€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
39	Few-Layer MoS₂ with High Broadband Photogain and Fast Optical Switching for Use in Harsh Environments. ACS Nano, 2013, 7, 3905-3911.	14.6	584
40	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. RSC Advances, 2012, 2, 111-115.	3.6	72
41	Wafer-scale MoS2 thin layers prepared by MoO3 sulfurization. Nanoscale, 2012, 4, 6637.	5.6	621
42	Highly Flexible MoS₂ Thin-Film Transistors with Ion Gel Dielectrics. Nano Letters, 2012, 12, 4013-4017.	9.1	746
43	Electrical Probing of Submicroliter Liquid Using Graphene Strip Transistors Built on a Nanopipette. Small, 2012, 8, 43-46.	10.0	38
44	Efficient reduction of graphene oxide catalyzed by copper. Physical Chemistry Chemical Physics, 2012, 14, 3083.	2.8	12
45	Growth of Large-Area and Highly Crystalline MoS₂ Thin Layers on Insulating Substrates. Nano Letters, 2012, 12, 1538-1544.	9.1	1,749
46	Transfer printing of graphene strip from the graphene grown on copper wires. Nanotechnology, 2011, 22, 185309.	2.6	28
47	Direct Formation of Wafer Scale Graphene Thin Layers on Insulating Substrates by Chemical Vapor Deposition. Nano Letters, 2011, 11, 3612-3616.	9.1	302