

Hsin-Neng Wang

List of Publications by Year in descending order

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42
papers

1,984
citations

279798

23
h-index

477307

29
g-index

42
all docs

42
docs citations

42
times ranked

2689
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant cell-surface GIPC sphingolipids sense salt to trigger Ca ²⁺ influx. <i>Nature</i> , 2019, 572, 341-346.	27.8	341
2	Plasmonic nanoprobe for SERS biosensing and bioimaging. <i>Journal of Biophotonics</i> , 2010, 3, 89-102.	2.3	187
3	Label-Free DNA Biosensor Based on SERS Molecular Sentinel on Nanowave Chip. <i>Analytical Chemistry</i> , 2013, 85, 6378-6383.	6.5	135
4	Plasmonic nanoprobe: from chemical sensing to medical diagnostics and therapy. <i>Nanoscale</i> , 2013, 5, 10127.	5.6	134
5	Multiplex detection of breast cancer biomarkers using plasmonic molecular sentinel nanoprobe. <i>Nanotechnology</i> , 2009, 20, 065101.	2.6	121
6	Multiplexed Detection of MicroRNA Biomarkers Using SERS-Based Inverse Molecular Sentinel (iMS) Nanoprobes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21047-21055.	3.1	109
7	Plasmonic Nanoparticles and Nanowires: Design, Fabrication and Application in Sensing. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7480-7488.	3.1	105
8	<scp>SERS</scp> Nanosensors and Nanoreporters: Golden Opportunities in Biomedical Applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 17-33.	6.1	103
9	Plasmonic SERS biosensing nanochips for DNA detection. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1773-1781.	3.7	90
10	DNA bioassay-on-chip using SERS detection for dengue diagnosis. <i>Analyst</i> , 2014, 139, 5655-5659.	3.5	75
11	Plasmonics-based SERS nanobiosensor for homogeneous nucleic acid detection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 811-814.	3.3	57
12	Plasmonic nanoprobe for intracellular sensing and imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6165-6180.	3.7	56
13	Multiplex detection of disease biomarkers using SERS molecular sentinel-on-chip. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3335-3344.	3.7	46
14	Molecular sentinel-on-chip for SERS-based biosensing. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6008.	2.8	43
15	Plasmonic Nanoprobes for in Vivo Multimodal Sensing and Bioimaging of MicroRNA within Plants. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7743-7754.	8.0	42
16	Characterization of nanoprobe uptake in single cells: spatial and temporal tracking via SERS labeling and modulation of surface charge. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 115-122.	3.3	40
17	Plasmonic Coupling Interference (PCI) Nanoprobes for Nucleic Acid Detection. <i>Small</i> , 2011, 7, 3067-3074.	10.0	36
18	Surface-enhanced Raman scattering nanosensors for in vivo detection of nucleic acid targets in a large animal model. <i>Nano Research</i> , 2018, 11, 4005-4016.	10.4	34

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19	Applications of Carbon Nanotubes for Cancer Research. <i>Nanobiotechnology</i> , 2005, 1, 171-182.	1.2	32
20	In vivo detection of SERS-encoded plasmonic nanostars in human skin grafts and live animal models. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8215-8224.	3.7	32
21	Surface-enhanced Raman scattering molecular sentinel nanoprobe for viral infection diagnostics. <i>Analytica Chimica Acta</i> , 2013, 786, 153-158.	5.4	31
22	Inverse Molecular Sentinel-Integrated Fiberoptic Sensor for Direct and <i>in Situ</i> Detection of miRNA Targets. <i>Analytical Chemistry</i> , 2019, 91, 6345-6352.	6.5	31
23	Hybrid Top-Down and Bottom-Up Fabrication Approach for Wafer-Scale Plasmonic Nanoplatfoms. <i>Small</i> , 2011, 7, 727-731.	10.0	25
24	Plasmonic nanobiosensors for detection of microRNA cancer biomarkers in clinical samples. <i>Analyst</i> , 2020, 145, 4587-4594.	3.5	24
25	Plasmonic nanoplatfoms: From surface-enhanced Raman scattering sensing to biomedical applications. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 541-553.	2.5	21
26	Direct and Label-Free Detection of MicroRNA Cancer Biomarkers using SERS-Based Plasmonic Coupling Interference (PCI) Nanoprobes. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10245-10251.	2.6	13
27	Smartphone-Based Device for Colorimetric Detection of MicroRNA Biomarkers Using Nanoparticle-Based Assay. <i>Sensors</i> , 2021, 21, 8044.	3.8	12
28	Plasmonic Nanobiosensing: from in situ plant monitoring to cancer diagnostics at the point of care. <i>JPhys Photonics</i> , 2020, 2, 034012.	4.6	3
29	SERS-based inverse molecular sentinel (iMS) nanoprobe for multiplexed detection of microRNA cancer biomarkers in biological samples. , 2017, , .		1
30	Nanosensors for nucleic acid targets detection using SERS. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
31	Application of plasmonic nanoprobe for SERS sensing and imaging of biotargets in plant systems. , 2019, , .		1
32	Implantable "smart tattoo" SERS nanosensors for in vivo detection of nucleic acid biotargets in a large animal model. , 2019, , .		1
33	Molecular SERS Nanoprobes for Medical Diagnostics. , 2017, , 289-306.		1
34	In vivo SERS monitoring in plants using plasmonic nanoprobe. , 2022, , .		1
35	Multiplex DNA Biosensor for Viral Infection Diagnosis Using SERS Molecular Sentinel-on-Chip. <i>IFMBE Proceedings</i> , 2015, , 15-20.	0.3	0
36	Plasmonic SERS nanochips and nanoprobe for medical diagnostics and bio-energy applications. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Plasmonic nanochip for SERS chemical and biomedical sensing. , 2017, , .		0
38	In Vivo Sensing Using SERS Nanosensors. , 2017, , 695-702.		0
39	In vivo nucleic acid detection and imaging within whole plants using plasmonic nanosensors. , 2019, , .		0
40	Inverse molecular sentinel-integrated fiber sensor for direct detection of miRNA targets. , 2019, , .		0
41	Direct detection of cancer biomarkers using plasmonics-based Inverse Molecular Sentinel (iMS) nanobiosensors. , 2019, , .		0
42	In vivo detection of microRNA within plants using plasmonic nanosensors. , 2019, , .		0