

Nan-Fu Chiu

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,331
citations

361296

20
h-index

360920

35
g-index

70
all docs

70
docs citations

70
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Graphene-Based Surface Plasmon Resonance and Surface-Enhanced Raman Scattering Biosensors: Current Status and Future Prospects. <i>Nanomaterials</i> , 2021, 11, 216.	1.9	69
2	Immunoassay-Amplified Responses Using a Functionalized MoS ₂ -Based SPR Biosensor to Detect PAPP-A2 in Maternal Serum Samples to Screen for Fetal Down's Syndrome. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 2715-2733.	3.3	22
3	Exploring Graphene and MoS ₂ Chips Based Surface Plasmon Resonance Biosensors for Diagnostic Applications. <i>Frontiers in Chemistry</i> , 2020, 8, 728.	1.8	29
4	<p>Simultaneous Real-Time Detection of Pregnancy-Associated Plasma Protein-a and -A2 Using a Graphene Oxide-Based Surface Plasmon Resonance Biosensor</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 2085-2094.	3.3	8
5	High-Sensitivity Detection of the Lung Cancer Biomarker CYFRA21-1 in Serum Samples Using a Carboxyl-MoS ₂ Functional Film for SPR-Based Immunosensors. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 234.	2.0	52
6	Surface Plasmon Resonance Biosensor Performance Analysis on 2D Material Based on Graphene and Transition Metal Dichalcogenides. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 115023.	0.9	44
7	Clinical Application for Screening Down's Syndrome by Using Carboxylated Graphene Oxide-Based Surface Plasmon Resonance Aptasensors. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 8131-8149.	3.3	7
8	<p>Development of a bioaffinity SPR immunosensor based on functionalized graphene oxide for the detection of pregnancy-associated plasma protein A2 in human plasma</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6735-6748.	3.3	15
9	<p>High-affinity carboxyl-graphene oxide-based SPR aptasensor for the detection of hCG protein in clinical serum samples</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 4833-4847.	3.3	46
10	Highly sensitive carboxyl-graphene oxide-based SPR immunosensor for the detection of CA19-9 biomarker. , 2019, , .		4
11	Plasmonic biosensor detected human chorionic gonadotropin with naked eye. , 2019, , .		0
12	Affinity capture surface carboxyl-functionalized MoS ₂ sheets to enhance the sensitivity of surface plasmon resonance immunosensors. <i>Talanta</i> , 2018, 185, 174-181.	2.9	42
13	Real-time and stepwise deoxidization processes to tune the photoluminescence properties of graphene oxide using EC-SPR spectroscopy. <i>RSC Advances</i> , 2018, 8, 11557-11565.	1.7	10
14	Highly sensitive carboxyl-graphene oxide-based surface plasmon resonance immunosensor for the detection of lung cancer for cytokeratin 19 biomarker in human plasma. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 264-272.	4.0	88
15	Rapid screening of Mycobacterium tuberculosis complex (MTBC) in clinical samples by a modular portable biosensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 742-748.	4.0	34
16	Stepwise control of reduction of graphene oxide and quantitative real-time evaluation of residual oxygen content using EC-SPR for a label-free electrochemical immunosensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 981-990.	4.0	30
17	Enhanced Plasmonic Biosensors of Hybrid Gold Nanoparticle-Graphene Oxide-Based Label-Free Immunoassay. <i>Nanoscale Research Letters</i> , 2018, 13, 152.	3.1	44
18	Functionalization of Graphene and Graphene Oxide for Plasmonic and Biosensing Applications. , 2018, , 85-112.		3

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19	Ultra-high sensitivity of the non-immunological affinity of graphene oxide-peptide-based surface plasmon resonance biosensors to detect human chorionic gonadotropin. Biosensors and Bioelectronics, 2017, 94, 351-357.	5.3	70
20	Carboxyl-functionalized graphene oxide composites as SPR biosensors with enhanced sensitivity for immunoaffinity detection. Biosensors and Bioelectronics, 2017, 89, 370-376.	5.3	131
21	Liquid crystal sensor for label-free monitoring protein solution. , 2016, , .		0
22	Performance of white organic light-emitting diode for portable optical biosensor. Sensors and Actuators B: Chemical, 2016, 222, 1058-1065.	4.0	25
23	Surface doping of composite plasmonic material by functional graphene nanostructures for organic solar cell applications. , 2015, , .		0
24	Interactions between excitation and extraction modes in an organic-based plasmon-emitting diode. Applied Surface Science, 2015, 332, 97-104.	3.1	3
25	Evaluation of an affinity-amplified immunoassay of graphene oxide using surface plasmon resonance biosensors. , 2015, , .		1
26	Design of plasmonic circular grating with broadband absorption enhancements. Proceedings of SPIE, 2015, , .	0.8	2
27	Enhancing extraction of light from metal composite structures for plasmonic emitters using light-coupling effect. Optics Express, 2015, 23, 9602.	1.7	3
28	Enhanced Sensitivity of Anti-Symmetrically Structured Surface Plasmon Resonance Sensors with Zinc Oxide Intermediate Layers. Sensors, 2014, 14, 170-187.	2.1	41
29	Sensitivity and kinetic analysis of graphene oxide-based surface plasmon resonance biosensors. Sensors and Actuators B: Chemical, 2014, 197, 35-42.	4.0	79
30	Graphene oxide-based SPR biosensor chip for immunoassay applications. Nanoscale Research Letters, 2014, 9, 445.	3.1	63
31	Application of an OLED integrated with BEF and giant birefringent optical (GBO) film in a SPR biosensor. Sensors and Actuators B: Chemical, 2014, 198, 424-430.	4.0	18
32	Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. IEEE Sensors Journal, 2013, 13, 3483-3489.	2.4	13
33	EXCITATION COUPLING OF Au/ZnO BAND-GAP ENERGY FOR ENHANCING THE PERFORMANCE OF SURFACE PLASMON RESONANCE BIOSENSOR. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350055.	0.3	1
34	Kinetic analysis of graphene oxide sheet and protein interactions using surface plasmon resonance biosensors. , 2013, , .		0
35	Organic Plasmon-Emitting Diodes for Detecting Refractive Index Variation. Sensors, 2013, 13, 8340-8351.	2.1	5
36	Using surface plasmon resonance to detect the deoxidized process of graphene oxide. , 2013, , .		0

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37	Organic-based plasmonic emitters for sensing applications. <i>Applied Optics</i> , 2013, 52, 1383.	0.9	7
38	Plasmonic Circular Nanostructure for Enhanced Light Absorption in Organic Solar Cells. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-7.	1.4	8
39	Enhanced optical coupling in localized and band-gap characteristics of plasmonic nanostructure. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
40	Surface plasmon coupled emission in highly directional and sensitive plasmonic devices. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
41	Single-layer graphene based SPR biochips for tuberculosis bacillus detection. <i>Proceedings of SPIE</i> , 2012, , .	0.8	11
42	Simple fabrication of glucose biosensor based on Graphene-Nafion composite by amperometric detections. , 2012, , .		3
43	High-Sensitivity Detection of Carbohydrate Antigen 15-3 Using a Gold/Zinc Oxide Thin Film Surface Plasmon Resonance-Based Biosensor. <i>Analytical Chemistry</i> , 2010, 82, 1207-1212.	3.2	145
44	Directional photoluminescence enhancement of organic emitters via surface plasmon coupling. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	28
45	Fabrication Process of Integrated Multi-Analyte Biochip System for Implantable Application. , 2009, , .		4
46	Hybrid nano plasmonics for integrated biosensor. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
47	Miniature Fresnel-based fiber optic pressure sensors for human disc pressure measurement. , 2009, , .		1
48	Light control in organic electroluminescence devices by plasmonic grating coupled emission for biochemical applications. , 2009, , .		0
49	Advanced Plasmonic Biosensing Devices and Automation Systems for Disease Diagnostic and Drug Screening Applications. , 2008, , .		1
50	Surface plasmon resonance biochip based on ZnO thin film for nitric oxide sensing. , 2008, 2008, 5757-60.		3
51	Surface Plasmon Resonance Biochip Based on ZnO Thin Film for Nitric Oxide Sensing. <i>Journal of Bionanoscience</i> , 2008, 2, 62-66.	0.4	7
52	Nanostructure Induced Surface Plasma Resonance of Broadband Organic Emitting Materials. , 2007, , .		0
53	Enhanced luminescence of organic/metal nanostructure for grating coupler active long-range surface plasmonic device. <i>Applied Physics Letters</i> , 2007, 91, 083114.	1.5	40
54	A novel microlens arrays coupler of surface plasmon resonance for biochemical applications. , 2007, , .		2

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55	Enhancement and tunability of active plasmonic by multilayer grating coupled emission. Optics Express, 2007, 15, 11608.	1.7	42
56	Extraction efficiency enhancement of an OLED using surface plasmon resonance. , 2007, , .		0
57	Toward Integrated Plasmonics for Biosensing. , 2007, , .		0
58	Electrochemical Detection of High-Sensitivity C-Reactive Protein Based on Biomimic Design of Electroactive Nanoassembly Multilayers. Journal of Bionanoscience, 2007, 1, 44-50.	0.4	0
59	Advanced Metal Nanostructure Design for Surface Plasmon Photonic Bandgap Biosensor Device. , 2006, Suppl, 6521-4.		6
60	Novel Biomolecular Finger Printing with an Active Dual-Band Antenna Biosensor. , 2006, , .		1
61	Enhanced luminescence of organic/metal nanostructure with symmetric dielectric layers for long-range surface plasmon polaritons. , 2006, , .		1
62	A Multi Parameters Wearable Telemetric System for Cardio-Pulmonary Fitness of e-Health. , 2005, 2005, 3498-501.		3
63	An Implantable Multifunctional Needle Type Biosensor with Integrated RF Capability. , 2005, 2005, 1933-6.		2
64	In vivo wireless biodiagnosis system for long-term bioactivity monitoring network. , 2004, 5394, 288.		0
65	Graphene Oxide Based Surface Plasmon Resonance Biosensors. , 0, , .		11
66	Highly Efficient Carboxylated Graphene Oxide-Based Surface Plasmon Resonance Aptasensors Detect hCG Protein to Diagnose Down's Syndrome in Clinical Serum Samples. SSRN Electronic Journal, 0, , .	0.4	0