Kuang-Li Lee

List of Publications by Year
in descending order

45 papers	1,194 citations	430874 18 h-index	377865 34 g-index
45 all docs	45 docs citations	45 times ranked	1400 citing authors

#	Article	IF	Citations
1	Enhancing Surface Plasmon Detection Using Template-Stripped Gold Nanoslit Arrays on Plastic Films. ACS Nano, 2012, 6, 2931-2939.	14.6	146
2	Ultrasensitive Biosensors Using Enhanced Fano Resonances in Capped Gold Nanoslit Arrays. Scientific Reports, 2015, 5, 8547.	3.3	142
3	Sensitive biosensor array using surface plasmon resonance on metallic nanoslits. Journal of Biomedical Optics, 2007, 12, 044023.	2.6	118
4	Nanoplasmonic biochips for rapid label-free detection of imidacloprid pesticides with a smartphone. Biosensors and Bioelectronics, 2016, 75, 88-95.	10.1	80
5	Highly Sensitive Aluminum-Based Biosensors using Tailorable Fano Resonances in Capped Nanostructures. Scientific Reports, 2017, 7, 44104.	3.3	62
6	Sensitive biosensors using Fano resonance in single gold nanoslit with periodic grooves. Optics Express, 2011, 19, 24530.	3.4	59
7	Enhancing Surface Plasmon Detection Using Ultrasmall Nanoslits and a Multispectral Integration Method. Small, 2010, 6, 1900-1907.	10.0	53
8	Intensity sensitivity of gold nanostructures and its application for high-throughput biosensing. Optics Express, 2009, 17, 23104.	3.4	46
9	Giant birefringence induced by plasmonic nanoslit arrays. Applied Physics Letters, 2009, 95, .	3.3	41
10	Dual Sensing Arrays for Surface Plasmon Resonance (SPR) and Surfaceâ€Enhanced Raman Scattering (SERS) Based on Nanowire/Nanorod Hybrid Nanostructures. Advanced Materials Interfaces, 2018, 5, 1801064.	3.7	39
11	Enhancing the Surface Sensitivity of Metallic Nanostructures Using Oblique-Angle-Induced Fano Resonances. Scientific Reports, 2016, 6, 33126.	3.3	32
12	Multiplex detection of urinary miRNA biomarkers by transmission surface plasmon resonance. Analyst, The, 2018, 143, 4715-4722.	3.5	26
13	Optimization for Gold Nanostructure-Based Surface Plasmon Biosensors Using a Microgenetic Algorithm. ACS Photonics, 2018, 5, 2320-2327.	6.6	25
14	Low-Cost and Rapid Fabrication of Metallic Nanostructures for Sensitive Biosensors Using Hot-Embossing and Dielectric-Heating Nanoimprint Methods. Sensors, 2017, 17, 1548.	3.8	24
15	Enhancing Surface Sensing Sensitivity of Metallic Nanostructures using Blue-Shifted Surface Plasmon Mode and Fano Resonance. Scientific Reports, 2018, 8, 9762.	3.3	24
16	Improving Surface Plasmon Detection in Gold Nanostructures Using a Multiâ€Polarization Spectral Integration Method. Advanced Materials, 2012, 24, OP253-9.	21.0	23
17	Multichannel nanoplasmonic platform for imidacloprid and fipronil residues rapid screen detection. Biosensors and Bioelectronics, 2020, 170, 112677.	10.1	22
18	Resonant position tracking method for smartphone-based surface plasmon sensor. Analytica Chimica Acta, 2018, 1032, 99-106.	5.4	20

#	Article	IF	Citations
19	Chip-based digital surface plasmon resonance sensing platform for ultrasensitive biomolecular detection. Biosensors and Bioelectronics, 2017, 91, 580-587.	10.1	18
20	Cell viability monitoring using Fano resonance in gold nanoslit array. Applied Physics Letters, 2013, 103, .	3.3	17
21	Optimization of periodic gold nanostructures for intensity-sensitive detection. Applied Physics Letters, 2011, 99, 083108.	3.3	16
22	Aluminum Nanostructures for Surface-Plasmon-Resonance-Based Sensing Applications. ACS Applied Nano Materials, 2019, 2, 1930-1939.	5.0	15
23	Enhancing Surface Sensitivity of Nanostructure-Based Aluminum Sensors Using Capped Dielectric Layers. ACS Omega, 2017, 2, 7461-7470.	3.5	14
24	Sensitive detection of nanoparticles using metallic nanoslit arrays. Applied Physics Letters, 2007, 90, 233119.	3.3	13
25	Femtosecond laser-ultrasonic investigation of plasmonic fields on the metal/gallium nitride interface. Applied Physics Letters, 2010, 97, .	3.3	12
26	Increased detection sensitivity of surface plasmon sensors using oblique induced resonant coupling. Optics Letters, 2013, 38, 4962.	3.3	12
27	Simultaneous assessment of cell morphology and adhesion using aluminum nanoslit-based plasmonic biosensing chips. Scientific Reports, 2019, 9, 7204.	3.3	12
28	Determination of the effective index and thickness of biomolecular layer by Fano resonances in gold nanogrid array. Optics Express, 2015, 23, 21596.	3.4	11
29	High-Throughput and Dynamic Study of Drug and Cell Interactions Using Contrast Images in Aluminum-Based Nanoslit Arrays. Analytical Chemistry, 2020, 92, 9674-9681.	6.5	11
30	Injection compression molding of transmission-type Fano resonance biochips for multiplex sensing applications. Applied Materials Today, 2019, 16, 72-82.	4.3	10
31	Enhancing detection sensitivity of metallic nanostructures by resonant coupling mode and spectral integration analysis. Optics Express, 2014, 22, 19621.	3.4	9
32	Dynamic Monitoring of Mechano-Sensing of Cells by Gold Nanoslit Surface Plasmon Resonance Sensor. PLoS ONE, 2014, 9, e89522.	2.5	9
33	Enhancing angular sensitivity of plasmonic nanostructures using mode transition in hexagonal gold nanohole arrays. Sensors and Actuators B: Chemical, 2017, 241, 800-805.	7.8	6
34	Spectral Imaging Analysis for Ultrasensitive Biomolecular Detection Using Gold-Capped Nanowire Arrays. Sensors, 2018, 18, 2181.	3.8	6
35	Screening anti-metastasis drugs by cell adhesion-induced color change in a biochip. Lab on A Chip, 2021, 21, 2955-2970.	6.0	5
36	Structure Effect on Sensitivity of Gold Nanoslits Studied by Spectral Integration Method. Plasmonics, 2011, 6, 483-490.	3.4	4

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37	Visualization of biosensors using enhanced surface plasmon resonances in capped silver nanostructures. Analyst, The, 2016, 141, 974-980.	3.5	4
38	Spectral contrast imaging method for mapping transmission surface plasmon images in metallic nanostructures. Biosensors and Bioelectronics, 2019, 142, 111545.	10.1	4
39	Development of radio-frequency heating-assisted nanoimprint with PETG solution for nanostructure-based biosensors. AIP Advances, 2017, 7, .	1.3	2
40	Self-referencing biosensors using Fano resonance in periodic aluminium nanostructures. Nanoscale, 2021, 13, 17775-17783.	5.6	2
41	29.4: Extraction Enhancement and Lateral Cavity Effect of Organic Light Emitting Diode by Using Metallic Nanostructures. Digest of Technical Papers SID International Symposium, 2008, 39, 415-418.	0.3	0
42	Multispectral Refractive Index Sensing Using Surface Plasmon Resonance on Gold Nanoslits. Materials Research Society Symposia Proceedings, 2010, 1253, 26.	0.1	0
43	Comparison of transmission and reflection spectrum of angular dependent surface plasmon resonances of gold nanoslits. , 2012, , .		0
44	Ultra-sensitive and label-free biosensors using surface plasmon resonance of nano-grating structure in nanofluidic preconcentrator. , 2015, , .		0
45	96-well capped gold nanoslits for backside-reflection plasmonic biosensing. , 2019, , .		0