

# Kuang-Li Lee

## List of Publications by Year in descending order

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45  
papers

1,194  
citations

430442

18  
h-index

377514

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.	7.3	146
2	Ultrasensitive Biosensors Using Enhanced Fano Resonances in Capped Gold Nanoslit Arrays. Scientific Reports, 2015, 5, 8547.	1.6	142
3	Sensitive biosensor array using surface plasmon resonance on metallic nanoslits. Journal of Biomedical Optics, 2007, 12, 044023.	1.4	118
4	Nanoplasmonic biochips for rapid label-free detection of imidacloprid pesticides with a smartphone. Biosensors and Bioelectronics, 2016, 75, 88-95.	5.3	80
5	Highly Sensitive Aluminum-Based Biosensors using Tailorable Fano Resonances in Capped Nanostructures. Scientific Reports, 2017, 7, 44104.	1.6	62
6	Sensitive biosensors using Fano resonance in single gold nanoslit with periodic grooves. Optics Express, 2011, 19, 24530.	1.7	59
7	Enhancing Surface Plasmon Detection Using Ultrasmall Nanoslits and a Multispectral Integration Method. Small, 2010, 6, 1900-1907.	5.2	53
8	Intensity sensitivity of gold nanostructures and its application for high-throughput biosensing. Optics Express, 2009, 17, 23104.	1.7	46
9	Giant birefringence induced by plasmonic nanoslit arrays. Applied Physics Letters, 2009, 95, .	1.5	41
10	Dual Sensing Arrays for Surface Plasmon Resonance (SPR) and Surface-Enhanced Raman Scattering (SERS) Based on Nanowire/Nanorod Hybrid Nanostructures. Advanced Materials Interfaces, 2018, 5, 1801064.	1.9	39
11	Enhancing the Surface Sensitivity of Metallic Nanostructures Using Oblique-Angle-Induced Fano Resonances. Scientific Reports, 2016, 6, 33126.	1.6	32
12	Multiplex detection of urinary miRNA biomarkers by transmission surface plasmon resonance. Analyst, The, 2018, 143, 4715-4722.	1.7	26
13	Optimization for Gold Nanostructure-Based Surface Plasmon Biosensors Using a Microgenetic Algorithm. ACS Photonics, 2018, 5, 2320-2327.	3.2	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.	2.1	24
15	Enhancing Surface Sensing Sensitivity of Metallic Nanostructures using Blue-Shifted Surface Plasmon Mode and Fano Resonance. Scientific Reports, 2018, 8, 9762.	1.6	24
16	Improving Surface Plasmon Detection in Gold Nanostructures Using a Multi-Polarization Spectral Integration Method. Advanced Materials, 2012, 24, OP253-9.	11.1	23
17	Multichannel nanoplasmonic platform for imidacloprid and fipronil residues rapid screen detection. Biosensors and Bioelectronics, 2020, 170, 112677.	5.3	22
18	Resonant position tracking method for smartphone-based surface plasmon sensor. Analytica Chimica Acta, 2018, 1032, 99-106.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Chip-based digital surface plasmon resonance sensing platform for ultrasensitive biomolecular detection. <i>Biosensors and Bioelectronics</i> , 2017, 91, 580-587.	5.3	18
20	Cell viability monitoring using Fano resonance in gold nanoslit array. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	17
21	Optimization of periodic gold nanostructures for intensity-sensitive detection. <i>Applied Physics Letters</i> , 2011, 99, 083108.	1.5	16
22	Aluminum Nanostructures for Surface-Plasmon-Resonance-Based Sensing Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 1930-1939.	2.4	15
23	Enhancing Surface Sensitivity of Nanostructure-Based Aluminum Sensors Using Capped Dielectric Layers. <i>ACS Omega</i> , 2017, 2, 7461-7470.	1.6	14
24	Sensitive detection of nanoparticles using metallic nanoslit arrays. <i>Applied Physics Letters</i> , 2007, 90, 233119.	1.5	13
25	Femtosecond laser-ultrasonic investigation of plasmonic fields on the metal/gallium nitride interface. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	12
26	Increased detection sensitivity of surface plasmon sensors using oblique induced resonant coupling. <i>Optics Letters</i> , 2013, 38, 4962.	1.7	12
27	Simultaneous assessment of cell morphology and adhesion using aluminum nanoslit-based plasmonic biosensing chips. <i>Scientific Reports</i> , 2019, 9, 7204.	1.6	12
28	Determination of the effective index and thickness of biomolecular layer by Fano resonances in gold nanogrid array. <i>Optics Express</i> , 2015, 23, 21596.	1.7	11
29	High-Throughput and Dynamic Study of Drug and Cell Interactions Using Contrast Images in Aluminum-Based Nanoslit Arrays. <i>Analytical Chemistry</i> , 2020, 92, 9674-9681.	3.2	11
30	Injection compression molding of transmission-type Fano resonance biochips for multiplex sensing applications. <i>Applied Materials Today</i> , 2019, 16, 72-82.	2.3	10
31	Enhancing detection sensitivity of metallic nanostructures by resonant coupling mode and spectral integration analysis. <i>Optics Express</i> , 2014, 22, 19621.	1.7	9
32	Dynamic Monitoring of Mechano-Sensing of Cells by Gold Nanoslit Surface Plasmon Resonance Sensor. <i>PLoS ONE</i> , 2014, 9, e89522.	1.1	9
33	Enhancing angular sensitivity of plasmonic nanostructures using mode transition in hexagonal gold nanohole arrays. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 800-805.	4.0	6
34	Spectral Imaging Analysis for Ultrasensitive Biomolecular Detection Using Gold-Capped Nanowire Arrays. <i>Sensors</i> , 2018, 18, 2181.	2.1	6
35	Screening anti-metastasis drugs by cell adhesion-induced color change in a biochip. <i>Lab on A Chip</i> , 2021, 21, 2955-2970.	3.1	5
36	Structure Effect on Sensitivity of Gold Nanoslits Studied by Spectral Integration Method. <i>Plasmonics</i> , 2011, 6, 483-490.	1.8	4

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37	Visualization of biosensors using enhanced surface plasmon resonances in capped silver nanostructures. <i>Analyst, The</i> , 2016, 141, 974-980.	1.7	4
38	Spectral contrast imaging method for mapping transmission surface plasmon images in metallic nanostructures. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111545.	5.3	4
39	Development of radio-frequency heating-assisted nanoimprint with PETG solution for nanostructure-based biosensors. <i>AIP Advances</i> , 2017, 7, .	0.6	2
40	Self-referencing biosensors using Fano resonance in periodic aluminium nanostructures. <i>Nanoscale</i> , 2021, 13, 17775-17783.	2.8	2
41	29.4: Extraction Enhancement and Lateral Cavity Effect of Organic Light Emitting Diode by Using Metallic Nanostructures. <i>Digest of Technical Papers SID International Symposium</i> , 2008, 39, 415-418.	0.1	0
42	Multispectral Refractive Index Sensing Using Surface Plasmon Resonance on Gold Nanoslits. <i>Materials Research Society Symposia Proceedings</i> , 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