Wan Sun Kim

List of Publications by Year
in descending order

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28	757	687363 13	580821 25
papers	citations	h-index	g-index

28	28	28	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An excitation wavelength-optimized, stable SERS biosensing nanoplatform for analyzing adenoviral and AstraZeneca COVID-19 vaccination efficacy status using tear samples of vaccinated individuals. Biosensors and Bioelectronics, 2022, 204, 114079.	10.1	11
2	Wavelength-dependent label-free identification of isolated nontuberculous mycobacteria using surface-enhanced Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119186.	3.9	5
3	Label-free breast cancer detection using fiber probe-based Raman spectrochemical biomarker-dominated profiles extracted from a mixture analysis algorithm. Analytical Methods, 2021, 13, 3249-3255.	2.7	6
4	A digital SERS sensing platform using 3D nanolaminate plasmonic crystals coupled with Au nanoparticles for accurate quantitative detection of dopamine. Nanoscale, 2021, 13, 17340-17349.	5.6	19
5	A facile, portable surface-enhanced Raman spectroscopy sensing platform for on-site chemometrics of toxic chemicals. Sensors and Actuators B: Chemical, 2021, 343, 130102.	7.8	19
6	Label-Free Surface-Enhanced Raman Spectroscopy Biosensor for On-Site Breast Cancer Detection Using Human Tears. ACS Applied Materials & Interfaces, 2020, 12, 7897-7904.	8.0	83
7	Effects of scleral collagen crosslinking with different carbohydrate on chemical bond and ultrastructure of rabbit sclera: Future treatment for myopia progression. PLoS ONE, 2019, 14, e0216425.	2.5	8
8	A recyclable CNC-milled microfluidic platform for colorimetric assays and label-free aged-related macular degeneration detection. Sensors and Actuators B: Chemical, 2019, 290, 484-492.	7.8	10
9	A label-free cellulose SERS biosensor chip with improvement of nanoparticle-enhanced LSPR effects for early diagnosis of subarachnoid hemorrhage-induced complications. Biosensors and Bioelectronics, 2018, 111, 59-65.	10.1	59
10	Paper-Based Surface-Enhanced Raman Spectroscopy for Diagnosing Prenatal Diseases in Women. ACS Nano, 2018, 12, 7100-7108.	14.6	101
11	Highly Reproducible Au-Decorated ZnO Nanorod Array on a Graphite Sensor for Classification of Human Aqueous Humors. ACS Applied Materials & Interfaces, 2017, 9, 5891-5899.	8.0	52
12	Fabrication of a SERS-encoded microfluidic paper-based analytical chip for the point-of-assay of wastewater. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 221-226.	4.9	23
13	Low-Cost Label-Free Biosensing Bimetallic Cellulose Strip with SILAR-Synthesized Silver Coreâ€“Gold Shell Nanoparticle Structures. Analytical Chemistry, 2017, 89, 6448-6454.	6.5	51
14	Controlling successive ionic layer absorption and reaction cycles to optimize silver nanoparticle-induced localized surface plasmon resonance effects on the paper strip. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 174, 37-43.	3.9	12
15	Changes in nail keratin observed by Raman spectroscopy after Nd:YAG laser treatment. Microscopy Research and Technique, 2017, 80, 338-343.	2.2	8
16	Octadecyltrichlorosilane Capped Au Nanodot Arrays as Hydrophobic Surface Enhanced Raman Scattering Substrate for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2017, 17, 9211-9216.	0.9	1
17	A stand-alone pressure-driven 3D microfluidic chemical sensing analytic device. Sensors and Actuators B: Chemical, 2016, 230, 380-387.	7.8	20
18	Instrument-Free Synthesizable Fabrication of Label-Free Optical Biosensing Paper Strips for the Early Detection of Infectious Keratoconjunctivitides. Analytical Chemistry, 2016, 88, 5531-5537.	6.5	48

#	Article	IF	Citations
19	Label-free optical detection of age-related and diabetic oxidative damage in human aqueous humors. Microscopy Research and Technique, 2016, 79, 1050-1055.	2.2	7
20	A low-cost, monometallic, surface-enhanced Raman scattering-functionalized paper platform for spot-on bioassays. Sensors and Actuators B: Chemical, 2016, 222, 1112-1118.	7.8	67
21	Facile Fabrication of a Silver Nanoparticle Immersed, Surface-Enhanced Raman Scattering Imposed Paper Platform through Successive Ionic Layer Absorption and Reaction for On-Site Bioassays. ACS Applied Materials & Interfaces, 2015, 7, 27910-27917.	8.0	82
22	Development of end-selective functionalized carbon nanotubes for biomedical applications. Journal of the Korean Physical Society, 2015, 67, 2015-2019.	0.7	0
23	Focusing performance and thermal property of carbon-nanotube emitter-based X-ray sources. Journal of the Korean Physical Society, 2014, 65, 1743-1748.	0.7	0
24	All-Carbon Electrode Consisting of Carbon Nanotubes on Graphite Foil for Flexible Electrochemical Applications. Materials, 2014, 7, 1975-1983.	2.9	13
25	A flexible, nonenzymatic glucose biosensor based on Ni-coordinated, vertically aligned carbon nanotube arrays. RSC Advances, 2014, 4, 48310-48316.	3.6	33
26	Vertically Aligned Carbon Nanotube Emitter on Metal Foil for Medical X-Ray Imaging. Journal of Nanoscience and Nanotechnology, 2013, 13, 7100-7103.	0.9	10
27	Development of carbon nanotube X-ray system for computed tomography. , 2012, , .		0
28	Solvent Effect of the Passivation Layer on Performance of an Organic Thin-Film Transistor. Electrochemical and Solid-State Letters, 2007, 10, J68.	2.2	9