

# Wan Sun Kim

## List of Publications by Year in descending order

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28  
papers

757  
citations

687363

13  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Paper-Based Surface-Enhanced Raman Spectroscopy for Diagnosing Prenatal Diseases in Women. <i>ACS Nano</i> , 2018, 12, 7100-7108.	14.6	101
2	Label-Free Surface-Enhanced Raman Spectroscopy Biosensor for On-Site Breast Cancer Detection Using Human Tears. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7897-7904.	8.0	83
3	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. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27910-27917.	8.0	82
4	A low-cost, monometallic, surface-enhanced Raman scattering-functionalized paper platform for spot-on bioassays. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1112-1118.	7.8	67
5	A label-free cellulose SERS biosensor chip with improvement of nanoparticle-enhanced LSPR effects for early diagnosis of subarachnoid hemorrhage-induced complications. <i>Biosensors and Bioelectronics</i> , 2018, 111, 59-65.	10.1	59
6	Highly Reproducible Au-Decorated ZnO Nanorod Array on a Graphite Sensor for Classification of Human Aqueous Humors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 5891-5899.	8.0	52
7	Low-Cost Label-Free Biosensing Bimetallic Cellulose Strip with SILAR-Synthesized Silver Core-Gold Shell Nanoparticle Structures. <i>Analytical Chemistry</i> , 2017, 89, 6448-6454.	6.5	51
8	Instrument-Free Synthesizable Fabrication of Label-Free Optical Biosensing Paper Strips for the Early Detection of Infectious Keratoconjunctivitis. <i>Analytical Chemistry</i> , 2016, 88, 5531-5537.	6.5	48
9	A flexible, nonenzymatic glucose biosensor based on Ni-coordinated, vertically aligned carbon nanotube arrays. <i>RSC Advances</i> , 2014, 4, 48310-48316.	3.6	33
10	Fabrication of a SERS-encoded microfluidic paper-based analytical chip for the point-of-assay of wastewater. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 221-226.	4.9	23
11	A stand-alone pressure-driven 3D microfluidic chemical sensing analytic device. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 380-387.	7.8	20
12	A digital SERS sensing platform using 3D nanolaminate plasmonic crystals coupled with Au nanoparticles for accurate quantitative detection of dopamine. <i>Nanoscale</i> , 2021, 13, 17340-17349.	5.6	19
13	A facile, portable surface-enhanced Raman spectroscopy sensing platform for on-site chemometrics of toxic chemicals. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130102.	7.8	19
14	All-Carbon Electrode Consisting of Carbon Nanotubes on Graphite Foil for Flexible Electrochemical Applications. <i>Materials</i> , 2014, 7, 1975-1983.	2.9	13
15	Controlling successive ionic layer absorption and reaction cycles to optimize silver nanoparticle-induced localized surface plasmon resonance effects on the paper strip. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 174, 37-43.	3.9	12
16	An excitation wavelength-optimized, stable SERS biosensing nanoplatform for analyzing adenoviral and AstraZeneca COVID-19 vaccination efficacy status using tear samples of vaccinated individuals. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114079.	10.1	11
17	Vertically Aligned Carbon Nanotube Emitter on Metal Foil for Medical X-Ray Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7100-7103.	0.9	10
18	A recyclable CNC-milled microfluidic platform for colorimetric assays and label-free aged-related macular degeneration detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 484-492.	7.8	10

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19	Solvent Effect of the Passivation Layer on Performance of an Organic Thin-Film Transistor. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, J68.	2.2	9
20	Changes in nail keratin observed by Raman spectroscopy after Nd:YAG laser treatment. <i>Microscopy Research and Technique</i> , 2017, 80, 338-343.	2.2	8
21	Effects of scleral collagen crosslinking with different carbohydrate on chemical bond and ultrastructure of rabbit sclera: Future treatment for myopia progression. <i>PLoS ONE</i> , 2019, 14, e0216425.	2.5	8
22	Label-free optical detection of age-related and diabetic oxidative damage in human aqueous humors. <i>Microscopy Research and Technique</i> , 2016, 79, 1050-1055.	2.2	7
23	Label-free breast cancer detection using fiber probe-based Raman spectrochemical biomarker-dominated profiles extracted from a mixture analysis algorithm. <i>Analytical Methods</i> , 2021, 13, 3249-3255.	2.7	6
24	Wavelength-dependent label-free identification of isolated nontuberculous mycobacteria using surface-enhanced Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119186.	3.9	5
25	Octadecyltrichlorosilane Capped Au Nanodot Arrays as Hydrophobic Surface Enhanced Raman Scattering Substrate for Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 9211-9216.	0.9	1
26	Development of carbon nanotube X-ray system for computed tomography. , 2012, , .		0
27	Focusing performance and thermal property of carbon-nanotube emitter-based X-ray sources. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1743-1748.	0.7	0
28	Development of end-selective functionalized carbon nanotubes for biomedical applications. <i>Journal of the Korean Physical Society</i> , 2015, 67, 2015-2019.	0.7	0