

Namhyun Choi

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,890
citations

304743

22
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

2561
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Detection of Dual Prostate Specific Antigens Using Surface-Enhanced Raman Scattering-Based Immunoassay for Accurate Diagnosis of Prostate Cancer. <i>ACS Nano</i> , 2017, 11, 4926-4933.	14.6	305
2	Simultaneous Detection of Dual Nucleic Acids Using a SERS-Based Lateral Flow Assay Biosensor. <i>Analytical Chemistry</i> , 2017, 89, 1163-1169.	6.5	208
3	Trace analysis of mercury(^{II}) ions using aptamer-modified Au/Ag core-shell nanoparticles and SERS spectroscopy in a microdroplet channel. <i>Lab on A Chip</i> , 2013, 13, 260-266.	6.0	135
4	Highly sensitive detection of high-risk bacterial pathogens using SERS-based lateral flow assay strips. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 72-79.	7.8	124
5	SERS imaging-based aptasensor for ultrasensitive and reproducible detection of influenza virus A. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112496.	10.1	117
6	Sensitive Detection of SARS-CoV-2 Using a SERS-Based Aptasensor. <i>ACS Sensors</i> , 2021, 6, 2378-2385.	7.8	109
7	Highly sensitive trace analysis of paraquat using a surface-enhanced Raman scattering microdroplet sensor. <i>Analytica Chimica Acta</i> , 2010, 681, 87-91.	5.4	93
8	Highly sensitive detection of thrombin using SERS-based magnetic aptasensors. <i>Biosensors and Bioelectronics</i> , 2013, 47, 62-67.	10.1	91
9	SERS biosensors for ultrasensitive detection of multiple biomarkers expressed in cancer cells. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112326.	10.1	89
10	Recent advances in surface-enhanced Raman scattering-based microdevices for point-of-care diagnosis of viruses and bacteria. <i>Nanoscale</i> , 2020, 12, 21560-21570.	5.6	81
11	Application of Silver-Coated Magnetic Microspheres to a SERS-Based Optofluidic Sensor. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6290-6296.	3.1	77
12	SERS-based droplet microfluidics for high-throughput gradient analysis. <i>Lab on A Chip</i> , 2019, 19, 674-681.	6.0	65
13	Preparation of Silica-Encapsulated Hollow Gold Nanosphere Tags Using Layer-by-Layer Method for Multiplex Surface-Enhanced Raman Scattering Detection. <i>Langmuir</i> , 2011, 27, 10228-10233.	3.5	50
14	Fast and sensitive recognition of various explosive compounds using Raman spectroscopy and principal component analysis. <i>Journal of Molecular Structure</i> , 2013, 1039, 130-136.	3.6	50
15	Integrated SERS-Based Microdroplet Platform for the Automated Immunoassay of F1 Antigens in <i>Yersinia pestis</i> . <i>Analytical Chemistry</i> , 2017, 89, 8413-8420.	6.5	41
16	Improvement of reproducibility and thermal stability of surface-enhanced Raman scattering-based lateral flow assay strips using silica-encapsulated gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128521.	7.8	40
17	Real-time analysis of diaquat dibromide monohydrate in water with a SERS-based integrated microdroplet sensor. <i>Nanoscale</i> , 2014, 6, 8781-8786.	5.6	39
18	Simultaneous detection of duplex DNA oligonucleotides using a SERS-based micro-network gradient chip. <i>Lab on A Chip</i> , 2012, 12, 5160.	6.0	31

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19	Performance Evaluation of Surface-Enhanced Raman Scattering-Polymerase Chain Reaction Sensors for Future Use in Sensitive Genetic Assays. <i>Analytical Chemistry</i> , 2020, 92, 2628-2634.	6.5	31
20	Reproducible and Sensitive Plasmonic Sensing Platforms Based on Au-Nanoparticle-Internalized Nanodimpled Substrates. <i>Advanced Functional Materials</i> , 2021, 31, 2105703.	14.9	31
21	Surface-Enhanced Raman Scattering-Based Dual-Flow Lateral Flow Assay Sensor for the Ultrasensitive Detection of the Thyroid-Stimulating Hormone. <i>Analytical Chemistry</i> , 2021, 93, 6673-6681.	6.5	29
22	SERS-based genetic assay for amplification-free detection of prostate cancer specific PCA3 mimic DNA. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 302-309.	7.8	24
23	SERS-based serodiagnosis of acute febrile diseases using plasmonic nanopopcorn microarray platforms. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113525.	10.1	14
24	Determination of total iron-binding capacity of transferrin using metal organic framework-based surface-enhanced Raman scattering spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 506-515.	2.5	13
25	Reproducible and Sensitive Plasmonic Sensing Platforms Based on Au-Nanoparticle-Internalized Nanodimpled Substrates (<i>Adv. Funct. Mater.</i> 49/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170366.	14.9	2
26	Application of SERS-Based Microfluidics for In Vitro Diagnostics. <i>Bioanalysis</i> , 2019, , 53-70.	0.1	1