

# Cheulhee Jung

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,358  
citations

257450

24  
h-index

206112

48  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3002  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of one-step isothermal methods to detect RNAs using hairpin-loop signal converters and proximity proteolysis reaction. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113769.	10.1	1
2	SF-qPCR: Strand Displacement-Based Fast Quantitative Polymerase Chain Reaction. <i>Biochip Journal</i> , 2022, 16, 41-48.	4.9	5
3	Development of Small-Molecule STING Activators for Cancer Immunotherapy. <i>Biomedicines</i> , 2022, 10, 33.	3.2	8
4	Expansion of the prime editing modality with Cas9 from <i>Francisella novicida</i> . <i>Genome Biology</i> , 2022, 23, 92.	8.8	13
5	Massively parallel kinetic profiling of natural and engineered CRISPR nucleases. <i>Nature Biotechnology</i> , 2021, 39, 84-93.	17.5	80
6	Probing Physical Properties of the Cellular Membrane in Senescent Cells by Fluorescence Imaging. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10182-10194.	2.6	4
7	Enhancement of target specificity of CRISPR-Cas12a by using a chimeric DNA-RNA guide. <i>Nucleic Acids Research</i> , 2020, 48, 8601-8616.	14.5	63
8	Hydrogels for Efficient Multiplex PCR. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 503-512.	2.6	3
9	Dynamic Programming of a DNA Walker Controlled by Protons. <i>ACS Nano</i> , 2020, 14, 4007-4013.	14.6	78
10	Selection of self-priming molecular replicators. <i>Nucleic Acids Research</i> , 2019, 47, 2169-2176.	14.5	7
11	A chemiluminescence resonance energy transfer strategy and its application for detection of platinum ions and cisplatin. <i>Mikrochimica Acta</i> , 2019, 186, 463.	5.0	7
12	Ultrasensitive detection of miRNA via one-step rolling circle-quantitative PCR (RC-qPCR). <i>Analytica Chimica Acta</i> , 2019, 1077, 208-215.	5.4	36
13	A novel helper qPCR system for platinum detection via Pt-DNA coordination. <i>Analytica Chimica Acta</i> , 2019, 1050, 154-160.	5.4	3
14	Supercharging enables organized assembly of synthetic biomolecules. <i>Nature Chemistry</i> , 2019, 11, 204-212.	13.6	70
15	High-throughput activator sequence selection for silver nanocluster beacons. , 2019, , .		2
16	Universally applicable, quantitative PCR method utilizing fluorescent nucleobase analogs. <i>RSC Advances</i> , 2018, 8, 37391-37395.	3.6	3
17	Phosphorothioated Primers Lead to Loop-Mediated Isothermal Amplification at Low Temperatures. <i>Analytical Chemistry</i> , 2018, 90, 8290-8294.	6.5	73
18	A Simple, Cleaved DNA Walker That Hangs on to Surfaces. <i>ACS Nano</i> , 2017, 11, 8047-8054.	14.6	107

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19	Massively Parallel Biophysical Analysis of CRISPR-Cas Complexes on Next Generation Sequencing Chips. <i>Cell</i> , 2017, 170, 35-47.e13.	28.9	96
20	A primerless molecular diagnostic: phosphorothioated-terminal hairpin formation and self-priming extension (PS-THSP). <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8583-8591.	3.7	20
21	Photopatterned Polydiacetylene Images Using a DNA Bio-Photomask. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15684-15690.	8.0	14
22	A stochastic DNA walker that traverses a microparticle surface. <i>Nature Nanotechnology</i> , 2016, 11, 157-163.	31.5	330
23	Six pack and stack. <i>Nature Chemistry</i> , 2015, 7, 617-619.	13.6	2
24	Diagnostic Applications of Nucleic Acid Circuits. <i>Accounts of Chemical Research</i> , 2014, 47, 1825-1835.	15.6	269
25	Homogeneous assay of target molecules based on chemiluminescence resonance energy transfer (CRET) using DNAzyme-linked aptamers. <i>Biosensors and Bioelectronics</i> , 2014, 58, 308-313.	10.1	44
26	High-throughput nanoscale lipid vesicle synthesis in a semicircular contraction-expansion array microchannel. <i>Biochip Journal</i> , 2013, 7, 210-217.	4.9	16
27	An electrochemically reversible DNA switch. <i>Electrochemistry Communications</i> , 2013, 27, 100-103.	4.7	11
28	Direct detection of unamplified genomic DNA based on photo-induced silver ion reduction by DNA molecules. <i>Chemical Communications</i> , 2013, 49, 2350.	4.1	19
29	A New Sensing Metric to Reduce Data Fluctuations in a Nanogap-Embedded Field-Effect Transistor Biosensor. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 2825-2831.	3.0	69
30	Simple and Universal Platform for Logic Gate Operations Based on Molecular Beacon Probes. <i>Small</i> , 2012, 8, 2203-2212.	10.0	81
31	An electrostatic micromechanical biosensor for electrical detection of label-free DNA. <i>Applied Physics Letters</i> , 2012, 100, 163701.	3.3	6
32	An ultrasensitive peroxidase DNAzyme-associated aptasensor that utilizes a target-triggered enzymatic signal amplification strategy. <i>Chemical Communications</i> , 2011, 47, 9876.	4.1	30
33	Label-free DNA detection with a nanogap embedded complementary metal oxide semiconductor. <i>Nanotechnology</i> , 2011, 22, 135502.	2.6	66
34	Gold Nanoparticles - based Colorimetric Single Nucleotide Polymorphisms Genotyping Utilizing Allele-specific PCR. <i>IFMBE Proceedings</i> , 2011, , 1062-1065.	0.3	0
35	Electrochemical detection of DNA mutations on a PNA-modified electrode utilizing a single-stranded DNA specific endonuclease. <i>Chemical Communications</i> , 2011, 47, 6611.	4.1	18
36	GNA<i>PNA Chimera Loaded with RNA Binding Preference. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1996-1999.	3.3	3

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37	An anisotropic snowflake-like structural assembly of polymer-capped gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2173-2180.	1.9	28
38	Colorimetric SNP Genotyping Based on Allele-Specific PCR by Using a Thiol-Labeled Primer. <i>ChemBioChem</i> , 2011, 12, 1387-1390.	2.6	24
39	Real-time colorimetric detection of target DNA using isothermal target and signaling probe amplification and gold nanoparticle cross-linking assay. <i>Biosensors and Bioelectronics</i> , 2011, 26, 1953-1958.	10.1	27
40	A Sexually Transmitted Disease (STD) DNA chip for the diagnosis of genitourinary infections. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4314-4319.	10.1	10
41	Direct colorimetric diagnosis of pathogen infections by utilizing thiol-labeled PCR primers and unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1941-1946.	10.1	77
42	“Illusionary” Polymerase Activity Triggered by Metal Ions: Use for Molecular Logic Gate Operations. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9757-9760.	13.8	150
43	Inside Cover: “Illusionary” Polymerase Activity Triggered by Metal Ions: Use for Molecular Logic Gate Operations ( <i>Angew. Chem. Int. Ed.</i> 50/2010). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9540-9540.	13.8	2
44	A gold nanorod-based optical DNA biosensor for the diagnosis of pathogens. <i>Biosensors and Bioelectronics</i> , 2010, 26, 667-673.	10.1	144
45	Gold nanoparticle embedded silicon nanowire biosensor for applications of label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2182-2185.	10.1	48
46	Isothermal Target and Signaling Probe Amplification Method, Based on a Combination of an Isothermal Chain Amplification Technique and a Fluorescence Resonance Energy Transfer Cycling Probe Technology. <i>Analytical Chemistry</i> , 2010, 82, 5937-5943.	6.5	44
47	Gold Nanoparticle-Based Label-Free Detection of BRCA1 Mutations Utilizing DNA Ligation on DNA Microarray. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1019-1024.	0.9	10
48	SNPs detection by a single-strand specific nuclease on a PNA zip-code microarray. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1706-1711.	10.1	18
49	A simple gold nanoparticle-mediated immobilization method to fabricate highly homogeneous DNA microarrays having higher capacities than those prepared by using conventional techniques. <i>Nanotechnology</i> , 2009, 20, 035607.	2.6	11
50	Microarray-based detection of Korean-specific BRCA1 mutations. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 405-413.	3.7	8
51	A Polydiacetylene Microchip Based on a Biotin-Streptavidin Interaction for the Diagnosis of Pathogen Infections. <i>Small</i> , 2008, 4, 1778-1784.	10.0	47
52	PCR-free mutation detection of BRCA1 on a zip-code microarray using ligase chain reaction. <i>Journal of Proteomics</i> , 2008, 70, 897-902.	2.4	13