Cheulhee Jung

List of Publications by Year
in descending order

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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	A stochastic DNA walker that traverses a microparticle surface. Nature Nanotechnology, 2016, 11, 157-163.	31.5	330
2	Diagnostic Applications of Nucleic Acid Circuits. Accounts of Chemical Research, 2014, 47, 1825-1835.	15.6	269
3	â€œIllusionaryâ€•Polymerase Activity Triggered by Metal Ions: Use for Molecular Logicâ€Gate Operations. Angewandte Chemie - International Edition, 2010, 49, 9757-9760.	13.8	150
4	A gold nanorod-based optical DNA biosensor for the diagnosis of pathogens. Biosensors and Bioelectronics, 2010, 26, 667-673.	10.1	144
5	A Simple, Cleated DNA Walker That Hangs on to Surfaces. ACS Nano, 2017, 11, 8047-8054.	14.6	107
6	Massively Parallel Biophysical Analysis of CRISPR-Cas Complexes on Next Generation Sequencing Chips. Cell, 2017, 170, 35-47.e13.	28.9	96
7	Simple and Universal Platform for Logic Gate Operations Based on Molecular Beacon Probes. Small, 2012, 8, 2203-2212.	10.0	81
8	Massively parallel kinetic profiling of natural and engineered CRISPR nucleases. Nature Biotechnology, 2021, 39, 84-93.	17.5	80
9	Dynamic Programming of a DNA Walker Controlled by Protons. ACS Nano, 2020, 14, 4007-4013.	14.6	78
10	Direct colorimetric diagnosis of pathogen infections by utilizing thiol-labeled PCR primers and unmodified gold nanoparticles. Biosensors and Bioelectronics, 2010, 25, 1941-1946.	10.1	77
11	Phosphorothioated Primers Lead to Loop-Mediated Isothermal Amplification at Low Temperatures. Analytical Chemistry, 2018, 90, 8290-8294.	6.5	73
12	Supercharging enables organized assembly of synthetic biomolecules. Nature Chemistry, 2019, 11, 204-212.	13.6	70
13	A New Sensing Metric to Reduce Data Fluctuations in a Nanogap-Embedded Field-Effect Transistor Biosensor. IEEE Transactions on Electron Devices, 2012, 59, 2825-2831.	3.0	69
14	Label-free DNA detection with a nanogap embedded complementary metal oxide semiconductor. Nanotechnology, 2011, 22, 135502.	2.6	66
15	Enhancement of target specificity of CRISPRâ€“Cas12a by using a chimeric DNAâ€“RNA guide. Nucleic Acids Research, 2020, 48, 8601-8616.	14.5	63
16	Gold nanoparticle embedded silicon nanowire biosensor for applications of label-free DNA detection. Biosensors and Bioelectronics, 2010, 25, 2182-2185.	10.1	48
17	A Polydiacetylene Microchip Based on a Biotinâ€“Streptavidin Interaction for the Diagnosis of Pathogen Infections. Small, 2008, 4, 1778-1784.	10.0	47
18	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. Analytical Chemistry, 2010, 82, 5937-5943.	6.5	44

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19	Homogeneous assay of target molecules based on chemiluminescence resonance energy transfer (CRET) using DNAzyme-linked aptamers. Biosensors and Bioelectronics, 2014, 58, 308-313.	10.1	44
20	Ultrasensitive detection of miRNA via one-step rolling circle-quantitative PCR (RC-qPCR). Analytica Chimica Acta, 2019, 1077, 208-215.	5.4	36
21	An ultrasensitive peroxidase DNAzyme-associated aptasensor that utilizes a target-triggered enzymatic signal amplification strategy. Chemical Communications, 2011, 47, 9876.	4.1	30
22	An anisotropic snowflake-like structural assembly of polymer-capped gold nanoparticles. Journal of Nanoparticle Research, 2011, 13, 2173-2180.	1.9	28
23	Real-time colorimetric detection of target DNA using isothermal target and signaling probe amplification and gold nanoparticle cross-linking assay. Biosensors and Bioelectronics, 2011, 26, 1953-1958.	10.1	27
24	Colorimetric SNP Genotyping Based on Alleleâ€Specific PCR by Using a Thiolâ€Labeled Primer. ChemBioChem, 2011, 12, 1387-1390.	2.6	24
25	A primerless molecular diagnostic: phosphorothioated-terminal hairpin formation and self-priming extension (PS-THSP). Analytical and Bioanalytical Chemistry, 2016, 408, 8583-8591.	3.7	20
26	Direct detection of unamplified genomic DNA based on photo-induced silver ion reduction by DNA molecules. Chemical Communications, 2013, 49, 2350.	4.1	19
27	SNPs detection by a single-strand specific nuclease on a PNA zip-code microarray. Biosensors and Bioelectronics, 2009, 24, 1706-1711.	10.1	18
28	Electrochemical detection of DNA mutations on a PNA-modified electrode utilizing a single-stranded DNA specific endonuclease. Chemical Communications, 2011, 47, 6611.	4.1	18
29	High-throughput nanoscale lipid vesicle synthesis in a semicircular contraction-expansion array microchannel. Biochip Journal, 2013, 7, 210-217.	4.9	16
30	Photopatterned Polydiacetylene Images Using a DNA Bio-Photomask. ACS Applied Materials & Interfaces, 2016, 8, 15684-15690.	8.0	14
31	PCR-free mutation detection of BRCA1 on a zip-code microarray using ligase chain reaction. Journal of Proteomics, 2008, 70, 897-902.	2.4	13
32	Expansion of the prime editing modality with Cas9 from Francisella novicida. Genome Biology, 2022, 23, 92.	8.8	13
33	A simple gold nanoparticle-mediated immobilization method to fabricate highly homogeneous DNA microarrays having higher capacities than those prepared by using conventional techniques. Nanotechnology, 2009, 20, 035607.	2.6	11
34	An electrochemically reversible DNA switch. Electrochemistry Communications, 2013, 27, 100-103.	4.7	11
35	Gold Nanoparticle-Based Label-Free Detection of BRCA1 Mutations Utilizing DNA Ligation on DNA Microarray. Journal of Nanoscience and Nanotechnology, 2009, 9, 1019-1024.	0.9	10
36	A Sexually Transmitted Disease (STD) DNA chip for the diagnosis of genitourinary infections. Biosensors and Bioelectronics, 2011, 26, 4314-4319.	10.1	10

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37	Microarray-based detection of Korean-specific BRCA1 mutations. Analytical and Bioanalytical Chemistry, 2008, 391, 405-413.	3.7	8
38	Development of Small-Molecule STING Activators for Cancer Immunotherapy. Biomedicines, 2022, 10, 33.	3.2	8
39	Selection of self-priming molecular replicators. Nucleic Acids Research, 2019, 47, 2169-2176.	14.5	7
40	A chemiluminescence resonance energy transfer strategy and its application for detection of platinum ions and cisplatin. Mikrochimica Acta, 2019, 186, 463.	5.0	7
41	An electrostatic micromechanical biosensor for electrical detection of label-free DNA. Applied Physics Letters, 2012, 100, 163701.	3.3	6
42	SF-qPCR: Strand Displacement-Based Fast Quantitative Polymerase Chain Reaction. Biochip Journal, 2022, 16, 41-48.	4.9	5
43	Probing Physical Properties of the Cellular Membrane in Senescent Cells by Fluorescence Imaging. Journal of Physical Chemistry B, 2021, 125, 10182-10194.	2.6	4
44	GNA/aegPNA Chimera Loaded with RNA Binding Preference. Chemistry - an Asian Journal, 2011, 6, 1996-1999.	3.3	3
45	Universally applicable, quantitative PCR method utilizing fluorescent nucleobase analogs. RSC Advances, 2018, 8, 37391-37395.	3.6	3
46	A novel helper qPCR system for platinum detection via Pt-DNA coordination. Analytica Chimica Acta, 2019, 1050, 154-160.	5.4	3
47	Hydrogels for Efficient Multiplex PCR. Biotechnology and Bioprocess Engineering, 2020, 25, 503-512.	2.6	3
48	Inside Cover: â€œIllusionaryâ€•Polymerase Activity Triggered by Metal Ions: Use for Molecular Logicâ€Gate Operations (Angew. Chem. Int. Ed. 50/2010). Angewandte Chemie - International Edition, 2010, 49, 9540-9540.	13.8	2
49	Six pack and stack. Nature Chemistry, 2015, 7, 617-619.	13.6	2
50	High-throughput activator sequence selection for silver nanocluster beacons. , 2019, , .		2
51	Development of one-step isothermal methods to detect RNAs using hairpin-loop signal converters and proximity proteolysis reaction. Biosensors and Bioelectronics, 2022, 197, 113769.	10.1	1
52	Gold Nanoparticles - based Colorimetric Single Nucleotide Polymorphisms Genotyping Utilizing Allele-specific PCR. IFMBE Proceedings, 2011, , 1062-1065.	0.3	0