

Ki Soo Park

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

2,984
citations

159358

30
h-index

214527

47
g-index

123
all docs

123
docs citations

123
times ranked

3473
citing authors

#	ARTICLE	IF	CITATIONS
1	Equipment-free, salt-mediated immobilization of nucleic acids for nucleic acid lateral flow assays. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130975.	4.0	16
2	T7 Endonuclease I-mediated voltammetric detection of KRAS mutation coupled with horseradish peroxidase for signal amplification. <i>Mikrochimica Acta</i> , 2022, 189, 75.	2.5	5
3	Split T7 promoter-based isothermal transcription amplification for one-step fluorescence detection of SARS-CoV-2 and emerging variants. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114221.	5.3	31
4	Sensitive and simultaneous detection of hygiene indicator bacteria using an enhanced CRISPR/Cas system in combination with a portable fluorescence detector. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131871.	4.0	15
5	Knockdown of YAP/TAZ sensitizes tamoxifen-resistant MCF7 breast cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2022, 601, 73-78.	1.0	11
6	Loop-mediated isothermal amplification-based nucleic acid lateral flow assay for the specific and multiplex detection of genetic markers. <i>Analytica Chimica Acta</i> , 2022, 1205, 339781.	2.6	21
7	DNA barcode-based detection of exosomal microRNAs using nucleic acid lateral flow assays for the diagnosis of colorectal cancer. <i>Talanta</i> , 2022, 242, 123306.	2.9	26
8	Dual rolling circle amplification-enabled ultrasensitive multiplex detection of exosome biomarkers using electrochemical aptasensors. <i>Analytica Chimica Acta</i> , 2022, 1205, 339762.	2.6	26
9	Lead-start isothermal polymerase amplification controlled by DNAzymatic switches. <i>Nanoscale</i> , 2022, 14, 7828-7836.	2.8	9
10	Modulation of CRISPR/Cas12a trans-cleavage activity by various DNA-modifying enzymes. <i>Microchemical Journal</i> , 2022, 180, 107606.	2.3	4
11	Dual-functionalized gold nanoparticles probe based bio-barcode immuno-PCR for the detection of glyphosate. <i>Food Chemistry</i> , 2021, 338, 128133.	4.2	20
12	Highly specific nuclear labeling <i>via in situ</i> formation of fluorescent copper nanoparticles. <i>Nanoscale</i> , 2021, 13, 81-84.	2.8	7
13	Promoter engineering improves transcription efficiency in biomolecular assays. <i>Chemical Communications</i> , 2021, 57, 1619-1622.	2.2	6
14	Fluorescence resonance energy transfer using DNA-templated copper nanoparticles for ratiometric detection of microRNAs. <i>Analyst</i> , 2021, 146, 1844-1847.	1.7	17
15	Colorimetric detection of individual biothiols by tailor made reactions with silver nanoprisms. <i>Scientific Reports</i> , 2021, 11, 3937.	1.6	11
16	Highly sensitive multiplex detection of microRNA using light-up RNA aptamers. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129410.	4.0	18
17	Synthesis of Exosome-Based Fluorescent Gold Nanoclusters for Cellular Imaging Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4433.	1.8	12
18	Three-Way Junction-Induced Isothermal Amplification with High Signal-to-Background Ratio for Detection of Pathogenic Bacteria. <i>Sensors</i> , 2021, 21, 4132.	2.1	7

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19	Nucleic acid lateral flow assay for simultaneous detection of hygiene indicator bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5003-5011.	1.9	16
20	A Syringe-Based and Centrifugation-Free DNA Extraction Procedure for the Rapid Detection of Bacteria. <i>Chemosensors</i> , 2021, 9, 167.	1.8	10
21	<i>In Situ</i> Biosynthesis of a Metal Nanoparticle Encapsulated in Alginate Gel for Imageable Drug-Delivery System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36697-36708.	4.0	14
22	Highly sensitive electrochemical detection of circulating EpCAM-positive tumor cells using a dual signal amplification strategy. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130087.	4.0	24
23	Pyrophosphate-Enhanced Oxidase Activity of Cerium Oxide Nanoparticles for Colorimetric Detection of Nucleic Acids. <i>Sensors</i> , 2021, 21, 7567.	2.1	6
24	Eco-friendly synthesis and biomedical applications of gold nanoparticles: A review. <i>Microchemical Journal</i> , 2020, 152, 104296.	2.3	100
25	Sensitive Electrochemical Detection of Tryptophan Using a Hemin/G-Quadruplex Aptasensor. <i>Chemosensors</i> , 2020, 8, 100.	1.8	14
26	Chemical Transformation of Astaxanthin from <i>Haematococcus pluvialis</i> Improves Its Antioxidative and Anti-inflammatory Activities. <i>ACS Omega</i> , 2020, 5, 19120-19130.	1.6	16
27	Fluorescence nucleobase analogue-based strategy with high signal-to-noise ratio for ultrasensitive detection of food poisoning bacteria. <i>Analyst, The</i> , 2020, 145, 6307-6312.	1.7	6
28	Washing-free Electrochemical Strategy to Detect Target DNA Utilizing Peroxidase Mimicking DNAzyme. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 707-714.	1.4	7
29	Advances in Exosome Analysis Methods with an Emphasis on Electrochemistry. <i>Analytical Chemistry</i> , 2020, 92, 12733-12740.	3.2	51
30	Portable glucose meter-utilized label-free and washing-free telomerase assay. <i>Analyst, The</i> , 2020, 145, 5578-5583.	1.7	5
31	A double-nanoprobe based immunoassay for rapid and sensitive detection of phenanthrene and some low-mass homologues. <i>Microchemical Journal</i> , 2020, 158, 105169.	2.3	2
32	Simple colorimetric detection of organophosphorus pesticides using naturally occurring extracellular vesicles. <i>Microchemical Journal</i> , 2020, 158, 105130.	2.3	18
33	Signature mRNA markers in extracellular vesicles for the accurate diagnosis of colorectal cancer. <i>Journal of Biological Engineering</i> , 2020, 14, 4.	2.0	25
34	Simple and label-free strategy for terminal transferase assay using a personal glucose meter. <i>Chemical Communications</i> , 2020, 56, 8912-8915.	2.2	11
35	Portable glucose meter-based label-free strategy for target DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127808.	4.0	15
36	Cellulose-based eco-friendly wafer-cleaning reagent. <i>Cellulose</i> , 2020, 27, 3405-3412.	2.4	0

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37	Characterization of blended cellulose/biopolymer films prepared using ionic liquid. <i>Cellulose</i> , 2020, 27, 5101-5119.	2.4	23
38	Glucose oxidase-like activity of cerium oxide nanoparticles: use for personal glucose meter-based label-free target DNA detection. <i>Theranostics</i> , 2020, 10, 4507-4514.	4.6	27
39	Characterization of Rajath Bhasma and Evaluation of Its Toxicity in Zebrafish Embryos and Its Antimicrobial Activity. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 920-925.	0.9	0
40	Synthesis of DNA-templated copper nanoparticles with enhanced fluorescence stability for cellular imaging. <i>Mikrochimica Acta</i> , 2019, 186, 479.	2.5	28
41	Nucleic acid-based fluorescent methods for the determination of DNA repair enzyme activities: A review. <i>Analytica Chimica Acta</i> , 2019, 1060, 30-44.	2.6	12
42	Compact and Filter-Free Luminescence Biosensor for Mobile <i>in Vitro</i> Diagnoses. <i>ACS Nano</i> , 2019, 13, 11698-11706.	7.3	22
43	Morphological study of cellulosic hydrogel nanofiber for biomedical application. <i>Cellulose</i> , 2019, 26, 9107-9118.	2.4	9
44	Target-Induced Aggregation of Gold Nanoparticles for Colorimetric Detection of Bisphenol A. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-7.	1.5	18
45	Flap endonuclease-initiated enzymatic repairing amplification for ultrasensitive detection of target nucleic acids. <i>Nanoscale</i> , 2019, 11, 3633-3638.	2.8	16
46	Sensitive and specific detection of proteins based on target-responsive DNA polymerase activity. <i>Analytica Chimica Acta</i> , 2019, 1059, 80-85.	2.6	10
47	Fluorescence polarization-based detection of cancer-related mutations using target-initiated rolling circle amplification. <i>Analyst</i> , 2019, 144, 4149-4152.	1.7	8
48	Label-free and washing-free alkaline phosphatase assay using a personal glucose meter. <i>Journal of Biological Engineering</i> , 2019, 13, 51.	2.0	14
49	Sensitive detection of DNA from <i>Chlamydia trachomatis</i> by using flap endonuclease-assisted amplification and graphene oxide-based fluorescence signaling. <i>Mikrochimica Acta</i> , 2019, 186, 330.	2.5	11
50	A simple approach for rapid and cost-effective quantification of extracellular vesicles using a fluorescence polarization technique. <i>Journal of Biological Engineering</i> , 2019, 13, 31.	2.0	20
51	Fluorescence, turn-on detection of melamine based on its dual functions as fluorescence enhancer of DNA-AgNCs and Hg(II)-scavenger. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 621-625.	1.9	9
52	Melamine-promoted formation of bright and stable DNA-silver nanoclusters and their antimicrobial properties. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2512-2517.	2.9	10
53	Food waste-driven N-doped carbon dots: Applications for Fe ³⁺ sensing and cell imaging. <i>Materials Science and Engineering C</i> , 2019, 102, 106-112.	3.8	87
54	Fluorescent S1 nuclease assay utilizing exponential strand displacement amplification. <i>Analyst</i> , 2019, 144, 3364-3368.	1.7	7

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55	Target-Activated DNA Polymerase Activity for Sensitive RNase H Activity Assay. <i>Biotechnology Journal</i> , 2019, 14, e1800645.	1.8	7
56	A one-step and label-free, electrochemical DNA detection using metal ion-mediated molecular beacon probe. <i>Electrochemistry Communications</i> , 2019, 100, 64-69.	2.3	14
57	Polymerization-sensitive switch-on monomer for terminal transferase activity assay. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 256-259.	1.9	5
58	Rapid and label-free, electrochemical DNA detection utilizing the oxidase-mimicking activity of cerium oxide nanoparticles. <i>Electrochemistry Communications</i> , 2019, 99, 5-10.	2.3	29
59	Intrinsic peroxidase-like activity of sonochemically synthesized protein copper nanoflowers and its application for the sensitive detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 749-754.	4.0	60
60	Exosomes for Non-Invasive Cancer Monitoring. <i>Biotechnology Journal</i> , 2019, 14, e1800430.	1.8	47
61	A simple, sensitive, and label-free assay for alkaline phosphatase activity based on target-promoted exponential strand displacement amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 1001-1005.	4.0	16
62	A simple and sensitive detection of small molecule-protein interactions based on terminal protection-mediated exponential strand displacement amplification. <i>Analyst</i> , 2018, 143, 2023-2028.	1.7	15
63	A signal-on, colorimetric determination of deoxyribonuclease I activity utilizing the photoinduced synthesis of gold nanoparticles. <i>Nanoscale</i> , 2018, 10, 4339-4343.	2.8	10
64	Label-free fluorescent detection of alkaline phosphatase with vegetable waste-derived green carbon probes. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 469-476.	4.0	24
65	Ultrasensitive DNA detection based on target-triggered rolling circle amplification and fluorescent poly(thymine)-templated copper nanoparticles. <i>RSC Advances</i> , 2018, 8, 1958-1962.	1.7	18
66	Enzyme-free and label-free miRNA detection based on target-triggered catalytic hairpin assembly and fluorescence enhancement of DNA-silver nanoclusters. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 140-145.	4.0	64
67	Universal, colorimetric microRNA detection strategy based on target-catalyzed toehold-mediated strand displacement reaction. <i>Nanotechnology</i> , 2018, 29, 085501.	1.3	32
68	An impedimetric determination of alkaline phosphatase activity based on the oxidation reaction mediated by Cu ²⁺ bound to poly-thymine DNA. <i>RSC Advances</i> , 2018, 8, 11241-11246.	1.7	15
69	Abasic Site-Assisted Inhibition of Nicking Endonuclease Activity for the Sensitive Determination of Uracil DNA Glycosylase. <i>Biotechnology Journal</i> , 2018, 13, e1700603.	1.8	8
70	Determination of RNase H activity via real-time monitoring of target-triggered rolling circle amplification. <i>Mikrochimica Acta</i> , 2018, 185, 53.	2.5	18
71	Nucleic acid aptamer-based methods for diagnosis of infections. <i>Biosensors and Bioelectronics</i> , 2018, 102, 179-188.	5.3	128
72	Universally applicable, quantitative PCR method utilizing fluorescent nucleobase analogs. <i>RSC Advances</i> , 2018, 8, 37391-37395.	1.7	3

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73	Protein-induced fluorescence enhancement for a simple and universal detection of protein/small molecule interactions. RSC Advances, 2018, 8, 39913-39917.	1.7	9
74	The use of a 2-aminopurine-containing split G-quadruplex for sequence-specific DNA detection. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, S950-S955.	1.9	7
75	A Personal Glucose Meter for Label-Free and Washing-Free Biomolecular Detection. Analytical Chemistry, 2018, 90, 11340-11343.	3.2	35
76	Development of a rapid and simple tetracycline detection system based on metal-enhanced fluorescence by europium-doped AgNP@SiO ₂ core-shell nanoparticles. RSC Advances, 2018, 8, 24322-24327.	1.7	19
77	Facile silicification of plastic surface for bioassays. Chemical Communications, 2017, 53, 2134-2137.	2.2	7
78	A simple and eco-friendly one-pot synthesis of nuclease-resistant DNA-inorganic hybrid nanoflowers. Journal of Materials Chemistry B, 2017, 5, 2231-2234.	2.9	55
79	Smartphone-based portable wireless optical system for the detection of target analytes. Biotechnology Journal, 2017, 12, 1600581.	1.8	8
80	Rapid and label-free strategy for the sensitive detection of Hg ²⁺ based on target-triggered exponential strand displacement amplification. RSC Advances, 2017, 7, 47143-47147.	1.7	6
81	Enzyme-Free Colorimetric Detection of Cu ²⁺ by Utilizing Target-Triggered DNAzymes and Toehold-Mediated DNA Strand Displacement Events. Chemistry - A European Journal, 2017, 23, 17379-17383.	1.7	17
82	A label-free and enzyme-free signal amplification strategy for a sensitive RNase H activity assay. Nanoscale, 2017, 9, 16149-16153.	2.8	42
83	Nanomagnetic System for Rapid Diagnosis of Acute Infection. ACS Nano, 2017, 11, 11425-11432.	7.3	12
84	Pyrrolo-dC modified duplex DNA as a novel probe for the sensitive assay of base excision repair enzyme activity. Biosensors and Bioelectronics, 2017, 98, 210-214.	5.3	20
85	Facile Coating Strategy to Functionalize Inorganic Nanoparticles for Biosensing. Bioconjugate Chemistry, 2017, 28, 33-37.	1.8	13
86	A label-free fluorescent assay for deoxyribonuclease I activity based on DNA-templated silver nanocluster/graphene oxide nanocomposite. Biosensors and Bioelectronics, 2017, 93, 293-297.	5.3	41
87	Aptamer-mediated universal enzyme assay based on target-triggered DNA polymerase activity. Biosensors and Bioelectronics, 2017, 88, 48-54.	5.3	18
88	Metal ion triggers for reversible switching of DNA polymerase. New Biotechnology, 2016, 33, S168.	2.4	0
89	Rapid and ultrasensitive detection of microRNA by target-assisted isothermal exponential amplification coupled with poly (thymine)-templated fluorescent copper nanoparticles. Nanotechnology, 2016, 27, 425502.	1.3	36
90	Rapid identification of health care-associated infections with an integrated fluorescence anisotropy system. Science Advances, 2016, 2, e1600300.	4.7	44

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91	A magneto-DNA nanoparticle system for the rapid and sensitive diagnosis of enteric fever. <i>Scientific Reports</i> , 2016, 6, 32878.	1.6	11
92	Metal ion triggers for reversible switching of DNA polymerase. <i>Chemical Communications</i> , 2016, 52, 4868-4871.	2.2	32
93	Fluorescence Polarization Based Nucleic Acid Testing for Rapid and Cost-Effective Diagnosis of Infectious Disease. <i>Chemistry - A European Journal</i> , 2015, 21, 16359-16363.	1.7	16
94	Ultrafast sonochemical synthesis of protein-inorganic nanoflowers. <i>International Journal of Nanomedicine</i> , 2015, 10 Spec Iss, 137.	3.3	23
95	Universal probe amplification: Multiplex screening technologies for genetic variations. <i>Biotechnology Journal</i> , 2015, 10, 45-55.	1.8	4
96	A novel electrochemical method to detect theophylline utilizing silver ions captured within abasic site-incorporated duplex DNA. <i>Biosensors and Bioelectronics</i> , 2015, 67, 590-594.	5.3	18
97	A DNA-templated silver nanocluster probe for label-free, turn-on fluorescence-based screening of homo-adenine binding molecules. <i>Biosensors and Bioelectronics</i> , 2015, 64, 618-624.	5.3	31
98	A fluorescent G-quadruplex probe for the assay of base excision repair enzyme activity. <i>Chemical Communications</i> , 2015, 51, 13744-13747.	2.2	51
99	Target DNA induced switches of DNA polymerase activity. <i>Chemical Communications</i> , 2015, 51, 9942-9945.	2.2	31
100	Technological applications arising from the interactions of DNA bases with metal ions. <i>Current Opinion in Biotechnology</i> , 2014, 28, 17-24.	3.3	39
101	A sensitive dual colorimetric and fluorescence system for assaying the activity of alkaline phosphatase that relies on pyrophosphate inhibition of the peroxidase activity of copper ions. <i>Analyst</i> , 2014, 139, 4691-4695.	1.7	32
102	Target-controlled formation of silver nanoclusters in abasic site-incorporated duplex DNA for label-free fluorescence detection of theophylline. <i>Nanoscale</i> , 2014, 6, 9977-9982.	2.8	39
103	Ultrafast colorimetric detection of nucleic acids based on the inhibition of the oxidase activity of cerium oxide nanoparticles. <i>Chemical Communications</i> , 2014, 50, 9577-9580.	2.2	74
104	Erratum to "Technological applications arising from the interactions of DNA bases with metal ions" [Curr Opin Biotechnol 2014, 28:17-24]. <i>Current Opinion in Biotechnology</i> , 2014, 28, 171.	3.3	0
105	An electrochemical one-step system for assaying methyltransferase activity based on transport of a quantum dot signaling tracer. <i>Biosensors and Bioelectronics</i> , 2013, 49, 542-546.	5.3	30
106	A label-free method for detecting biological thiols based on blocking of Hg ²⁺ -quenching of fluorescent gold nanoclusters. <i>Biosensors and Bioelectronics</i> , 2013, 45, 65-69.	5.3	136
107	An electrochemically reversible DNA switch. <i>Electrochemistry Communications</i> , 2013, 27, 100-103.	2.3	11
108	A Novel Colorimetric Immunoassay Utilizing the Peroxidase Mimicking Activity of Magnetic Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9999-10014.	1.8	61

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109	Mismatched pyrrolo-dC-modified duplex DNA as a novel probe for sensitive detection of silver ions. <i>Chemical Communications</i> , 2012, 48, 4549.	2.2	52
110	Simple and Universal Platform for Logic Gate Operations Based on Molecular Beacon Probes. <i>Small</i> , 2012, 8, 2203-2212.	5.2	81
111	Label-Free Colorimetric Detection of Nucleic Acids Based on Target-Induced Shielding Against the Peroxidase-Mimicking Activity of Magnetic Nanoparticles. <i>Small</i> , 2011, 7, 1521-1525.	5.2	145
112	A Sexually Transmitted Disease (STD) DNA chip for the diagnosis of genitourinary infections. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4314-4319.	5.3	10
113	Metal Ions-Triggered Polymerase Activity and Its Use for the Development of Molecular Logic Gates. <i>IFMBE Proceedings</i> , 2011, , 1066-1069.	0.2	0
114	“Illusionary” Polymerase Activity Triggered by Metal Ions: Use for Molecular Logic Gate Operations. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9757-9760.	7.2	150
115	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.	7.2	2
116	Structural and electrochemical characteristics of Li _{0.7} [Li _{1/6} Mn _{5/6}]O ₂ synthesized using sol-gel method. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 46-51.	1.2	4
117	The effects of sulfur doping on the performance of O ₃ -Li _{0.7} [Li _{1/12} Ni _{1/12} Mn _{5/6}]O ₂ powder. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 560-565.	1.2	10
118	The effects of Ni doping on the performance of O ₃ -lithium manganese oxide material. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 983-988.	1.2	4
119	The effects of oxygen flow rate and anion doping on the performance of the LiNiO ₂ electrode for lithium secondary batteries. <i>Korean Journal of Chemical Engineering</i> , 2002, 19, 791-796.	1.2	17