

Hyun Gyu Park

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209
papers

6,256
citations

42
h-index

69
g-index

220
ext. papers

6,954
ext. citations

7.3
avg, IF

6.05
L-index

#	Paper	IF	Citations
209	CRISPR/Cas12a collateral cleavage activity for an ultrasensitive assay of RNase H.. <i>Chemical Communications</i> , 2022 ,	5.8	1
208	Surface-enhanced Raman scattering-based immunoassay for severe acute respiratory syndrome coronavirus 2.. <i>Biosensors and Bioelectronics</i> , 2022 , 202, 114008	11.8	2
207	Multiplexed miRNA detection based on target-triggered transcription of multicolor fluorogenic RNA aptamers.. <i>Biosensors and Bioelectronics</i> , 2022 , 204, 114071	11.8	0
206	Rapid and accurate clinical testing for COVID-19 by nicking and extension chain reaction system-based amplification (NESBA). <i>Biosensors and Bioelectronics</i> , 2022 , 196, 113689	11.8	4
205	Electrochemical detection of zeptomolar miRNA using an RNA-triggered Cu ²⁺ reduction method. <i>Sensors and Actuators B: Chemical</i> , 2022 , 360, 131666	8.5	3
204	Ligation-free isothermal nucleic acid amplification.. <i>Biosensors and Bioelectronics</i> , 2022 , 209, 114256	11.8	0
203	Target-induced transcription of a light-up RNA aptamer to construct a novel method for alkaline phosphatase assay. <i>Chemical Communications</i> , 2021 , 57, 12341-12344	5.8	0
202	Ultrasensitive nucleic acid detection based on phosphorothioated hairpin-assisted isothermal amplification. <i>Scientific Reports</i> , 2021 , 11, 8399	4.9	1
201	Ultrasensitive isothermal method to detect microRNA based on target-induced chain amplification reaction. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113048	11.8	5
200	Self-priming phosphorothioated hairpin-mediated isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113051	11.8	6
199	Au@ZIF-8 SERS paper for food spoilage detection. <i>Biosensors and Bioelectronics</i> , 2021 , 179, 113063	11.8	25
198	Ultrasensitive version of nucleic acid sequence-based amplification (NASBA) utilizing a nicking and extension chain reaction system. <i>Nanoscale</i> , 2021 , 13, 10785-10791	7.7	8
197	A novel method to detect mutation in DNA by utilizing exponential amplification reaction triggered by the CRISPR-Cas9 system. <i>Nanoscale</i> , 2021 , 13, 7193-7201	7.7	5
196	Colorimetric detection of individual biothiols by tailor made reactions with silver nanoprisms. <i>Scientific Reports</i> , 2021 , 11, 3937	4.9	5
195	Biosynthesis of a Metal Nanoparticle Encapsulated in Alginate Gel for Imageable Drug-Delivery System. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36697-36708	9.5	3
194	Development of 6E3 antibody-mediated SERS immunoassay for drug-resistant influenza virus. <i>Biosensors and Bioelectronics</i> , 2021 , 187, 113324	11.8	7
193	Ferrowax microvalves for fully automated serial dilution on centrifugal microfluidic platforms. <i>Biotechnology Journal</i> , 2021 , 16, e2100131	5.6	

192	Identification of thyroid hormone/thyroid hormone receptor interaction based on aptamer-assisted protein-induced fluorescence enhancement. <i>Biosensors and Bioelectronics</i> , 2021 , 191, 113444	11.8	2
191	CRISPR/Cas12a collateral cleavage activity for simple and rapid detection of protein/small molecule interaction. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113587	11.8	5
190	Portable glucose meter-utilized label-free and washing-free telomerase assay. <i>Analyst, The</i> , 2020 , 145, 5578-5583	5	2
189	Self-Priming Hairpin-Utilized Isothermal Amplification Enabling Ultrasensitive Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2020 , 92, 10350-10356	7.8	6
188	Simple and label-free strategy for terminal transferase assay using a personal glucose meter. <i>Chemical Communications</i> , 2020 , 56, 8912-8915	5.8	4
187	Portable glucose meter-based label-free strategy for target DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 310, 127808	8.5	5
186	Zwitterionic Polydopamine/Protein G Coating for Antibody Immobilization: Toward Suppression of Nonspecific Binding in Immunoassays.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 3631-3639	4.1	3
185	A hairpin probe-mediated isothermal amplification method to detect target nucleic acid. <i>Analytica Chimica Acta</i> , 2020 , 1114, 7-14	6.6	5
184	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	12.1	12
183	Colorimetric Assay for Uracil DNA Glycosylase Activity Based on Toehold-Mediated Strand Displacement Circuit. <i>Biotechnology Journal</i> , 2020 , 15, e1900420	5.6	3
182	Crowding and confinement effects on enzyme stability in mesoporous silicas. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 118-126	7.9	7
181	Clustered Regularly Interspaced Short Palindromic Repeats-Mediated Surface-Enhanced Raman Scattering Assay for Multidrug-Resistant Bacteria. <i>ACS Nano</i> , 2020 ,	16.7	30
180	Colorimetric Detection of SARS-CoV-2 and Drug-Resistant pH1N1 Using CRISPR/dCas9. <i>ACS Sensors</i> , 2020 , 5, 4017-4026	9.2	32
179	Urinary exosomal mRNA detection using novel isothermal gene amplification method based on three-way junction. <i>Biosensors and Bioelectronics</i> , 2020 , 167, 112474	11.8	8
178	Washing-free Electrochemical Strategy to Detect Target DNA Utilizing Peroxidase Mimicking DNAzyme. <i>Biotechnology and Bioprocess Engineering</i> , 2020 , 25, 707-714	3.1	3
177	Three-way junction-induced isothermal amplification for nucleic acid detection. <i>Biosensors and Bioelectronics</i> , 2020 , 147, 111762	11.8	13
176	Nucleic acid-based fluorescent methods for the determination of DNA repair enzyme activities: A review. <i>Analytica Chimica Acta</i> , 2019 , 1060, 30-44	6.6	9
175	Flap endonuclease-initiated enzymatic repairing amplification for ultrasensitive detection of target nucleic acids. <i>Nanoscale</i> , 2019 , 11, 3633-3638	7.7	12

174	Sensitive and specific detection of proteins based on target-responsive DNA polymerase activity. <i>Analytica Chimica Acta</i> , 2019 , 1059, 80-85	6.6	6
173	Fluorescence polarization-based detection of cancer-related mutations using target-initiated rolling circle amplification. <i>Analyst, The</i> , 2019 , 144, 4149-4152	5	4
172	Label-free and washing-free alkaline phosphatase assay using a personal glucose meter. <i>Journal of Biological Engineering</i> , 2019 , 13, 51	6.3	9
171	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	5.8	7
170	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	7.3	6
169	Fluorescent S1 nuclease assay utilizing exponential strand displacement amplification. <i>Analyst, The</i> , 2019 , 144, 3364-3368	5	3
168	A one-step and label-free, electrochemical DNA detection using metal ion-mediated molecular beacon probe. <i>Electrochemistry Communications</i> , 2019 , 100, 64-69	5.1	13
167	Polymerization-sensitive switch-on monomer for terminal transferase activity assay. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019 , 47, 256-259	6.1	4
166	Colorimetric polydiacetylene (PDA) liposome-based assay for rapid and simple detection of GST-fusion protein. <i>Sensors and Actuators B: Chemical</i> , 2019 , 278, 190-195	8.5	13
165	Rapid and label-free, electrochemical DNA detection utilizing the oxidase-mimicking activity of cerium oxide nanoparticles. <i>Electrochemistry Communications</i> , 2019 , 99, 5-10	5.1	20
164	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	8.5	47
163	Low-blinking SERS substrate for switchable detection of kanamycin. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 765-773	8.5	39
162	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	8.5	14
161	A simple and sensitive detection of small molecule-protein interactions based on terminal protection-mediated exponential strand displacement amplification. <i>Analyst, The</i> , 2018 , 143, 2023-2028 ⁵		12
160	A signal-on, colorimetric determination of deoxyribonuclease I activity utilizing the photoinduced synthesis of gold nanoparticles. <i>Nanoscale</i> , 2018 , 10, 4339-4343	7.7	7
159	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	8.5	16
158	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	3.7	18
157	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	8.5	51

156	Universal, colorimetric microRNA detection strategy based on target-catalyzed toehold-mediated strand displacement reaction. <i>Nanotechnology</i> , 2018 , 29, 085501	3.4	19
155	An impedimetric determination of alkaline phosphatase activity based on the oxidation reaction mediated by Cu bound to poly-thymine DNA.. <i>RSC Advances</i> , 2018 , 8, 11241-11246	3.7	13
154	Label-Free Multiplex DNA Detection Utilizing Projected Capacitive Touchscreen. <i>Biotechnology Journal</i> , 2018 , 13, 1700362	5.6	5
153	Novel amine-functionalized iron trimesates with enhanced peroxidase-like activity and their applications for the fluorescent assay of choline and acetylcholine. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 161-168	11.8	65
152	Effective Peroxidase-Like Activity of Co-Aminoclay [CoAC] and Its Application for Glucose Detection. <i>Sensors</i> , 2018 , 18,	3.8	7
151	Development of a rapid and simple tetracycline detection system based on metal-enhanced fluorescence by europium-doped AgNP@SiO core-shell nanoparticles.. <i>RSC Advances</i> , 2018 , 8, 24322-24327	3.7	14
150	Abasic Site-Assisted Inhibition of Nicking Endonuclease Activity for the Sensitive Determination of Uracil DNA Glycosylase. <i>Biotechnology Journal</i> , 2018 , 13, e1700603	5.6	8
149	Universally applicable, quantitative PCR method utilizing fluorescent nucleobase analogs.. <i>RSC Advances</i> , 2018 , 8, 37391-37395	3.7	2
148	Protein-induced fluorescence enhancement for a simple and universal detection of protein/small molecule interactions.. <i>RSC Advances</i> , 2018 , 8, 39913-39917	3.7	4
147	A Personal Glucose Meter for Label-Free and Washing-Free Biomolecular Detection. <i>Analytical Chemistry</i> , 2018 , 90, 11340-11343	7.8	17
146	A simple and eco-friendly one-pot synthesis of nuclease-resistant DNA-inorganic hybrid nanoflowers. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2231-2234	7.3	44
145	A mass spectrometry-based multiplex SNP genotyping by utilizing allele-specific ligation and strand displacement amplification. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 122-127	11.8	19
144	Smartphone-based portable wireless optical system for the detection of target analytes. <i>Biotechnology Journal</i> , 2017 , 12, 1600581	5.6	6
143	Two zinc-aminoclays' in-vitro cytotoxicity assessment in HeLa cells and in-vivo embryotoxicity assay in zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 137, 103-112	7	17
142	Rapid and label-free strategy for the sensitive detection of Hg ²⁺ based on target-triggered exponential strand displacement amplification. <i>RSC Advances</i> , 2017 , 7, 47143-47147	3.7	6
141	Enzyme-Free Colorimetric Detection of Cu by Utilizing Target-Triggered DNAzymes and Toehold-Mediated DNA Strand Displacement Events. <i>Chemistry - A European Journal</i> , 2017 , 23, 17379-17383	4.8	13
140	A label-free and enzyme-free signal amplification strategy for a sensitive RNase H activity assay. <i>Nanoscale</i> , 2017 , 9, 16149-16153	7.7	33
139	Barcode DNA-Mediated Signal Amplifying Strategy for Ultrasensitive Biomolecular Detection on Matrix-Assisted Laser Desorption Ionization Time of Flight (MALDI-TOF) Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 8966-8973	7.8	23

138	Advanced carbon dots via plasma-induced surface functionalization for fluorescent and bio-medical applications. <i>Nanoscale</i> , 2017 , 9, 9210-9217	7.7	26
137	Pyrrolo-dC modified duplex DNA as a novel probe for the sensitive assay of base excision repair enzyme activity. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 210-214	11.8	16
136	High sensitive and selective electrochemical biosensor: Label-free detection of human norovirus using affinity peptide as molecular binder. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 164-170	11.8	97
135	A label-free fluorescent assay for deoxyribonuclease I activity based on DNA-templated silver nanocluster/graphene oxide nanocomposite. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 293-297	11.8	32
134	A new s-adenosylhomocysteine hydrolase-linked method for adenosine detection based on DNA-templated fluorescent Cu/Ag nanoclusters. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 330-334	11.8	20
133	Aptamer-mediated universal enzyme assay based on target-triggered DNA polymerase activity. <i>Biosensors and Bioelectronics</i> , 2017 , 88, 48-54	11.8	15
132	Reagentless colorimetric biosensing platform based on nanoceria within an agarose gel matrix. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 226-233	11.8	30
131	Determination of RNase H activity via real-time monitoring of target-triggered rolling circle amplification. <i>Mikrochimica Acta</i> , 2017 , 185, 53	5.8	15
130	Rapid and ultrasensitive detection of microRNA by target-assisted isothermal exponential amplification coupled with poly (thymine)-templated fluorescent copper nanoparticles. <i>Nanotechnology</i> , 2016 , 27, 425502	3.4	29
129	Photopatterned Polydiacetylene Images Using a DNA Bio-Photomask. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15684-90	9.5	11
128	Black Phosphorus (BP) Nanodots for Potential Biomedical Applications. <i>Small</i> , 2016 , 12, 214-9	11	205
127	New Surface Capacitive Touchscreen Technology To Detect DNA. <i>ACS Sensors</i> , 2016 , 1, 560-565	9.2	4
126	Metal ion triggers for reversible switching of DNA polymerase. <i>Chemical Communications</i> , 2016 , 52, 4868-71	5.8	28
125	A Whole-Cell Surface Plasmon Resonance Sensor Based on a Leucine Auxotroph of Escherichia coli Displaying a Gold-Binding Protein: Usefulness for Diagnosis of Maple Syrup Urine Disease. <i>Analytical Chemistry</i> , 2016 , 88, 2871-6	7.8	7
124	Label-free colorimetric detection of biological thiols based on target-triggered inhibition of photoinduced formation of AuNPs. <i>Nanotechnology</i> , 2016 , 27, 055501	3.4	19
123	A fluorescent G-quadruplex probe for the assay of base excision repair enzyme activity. <i>Chemical Communications</i> , 2015 , 51, 13744-7	5.8	49
122	Target DNA induced switches of DNA polymerase activity. <i>Chemical Communications</i> , 2015 , 51, 9942-5	5.8	24
121	Fabrication of conductive oxidase-entrapping nanocomposite of mesoporous ceria/carbon for efficient electrochemical biosensor. <i>RSC Advances</i> , 2015 , 5, 78747-78753	3.7	7

120	In-vitro cytotoxicity assessment of carbon-nanodot-conjugated Fe-aminoclay (CD-FeAC) and its bio-imaging applications. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 88	9.4	12
119	Ultrafast sonochemical synthesis of protein-inorganic nanoflowers. <i>International Journal of Nanomedicine</i> , 2015 , 10 Spec Iss, 137-42	7.3	13
118	Recent Advances in Genetic Technique of Microbial Report Cells and Their Applications in Cell Arrays. <i>BioMed Research International</i> , 2015 , 2015, 182107	3	1
117	Colorimetric detection of clinical DNA samples using an intercalator-conjugated polydiacetylene sensor. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 127-32	11.8	37
116	Colorimetric Quantification of Glucose and Cholesterol in Human Blood Using a Nanocomposite Entrapping Magnetic Nanoparticles and Oxidases. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7955-61	1.3	14
115	Universal probe amplification: multiplex screening technologies for genetic variations. <i>Biotechnology Journal</i> , 2015 , 10, 45-55	5.6	2
114	A novel electrochemical method to detect theophylline utilizing silver ions captured within abasic site-incorporated duplex DNA. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 590-4	11.8	14
113	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, 618-24	11.8	31
112	Photoluminescent carbon nanotags from harmful cyanobacteria for drug delivery and imaging in cancer cells. <i>Scientific Reports</i> , 2014 , 4, 4665	4.9	78
111	Technological applications arising from the interactions of DNA bases with metal ions. <i>Current Opinion in Biotechnology</i> , 2014 , 28, 17-24	11.4	35
110	Large genomic rearrangement of BRCA1 and BRCA2 genes in familial breast cancer patients in Korea. <i>Familial Cancer</i> , 2014 , 13, 205-11	3	6
109	Highly efficient colorimetric detection of target cancer cells utilizing superior catalytic activity of graphene oxide-magnetic-platinum nanohybrids. <i>Nanoscale</i> , 2014 , 6, 1529-36	7.7	98
108	Biodistribution and clearance of aminoclay nanoparticles: implication for in vivo applicability as a tailor-made drug delivery carrier. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7567-7574	7.3	30
107	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, The</i> , 2014 , 139, 4691-5	5	31
106	Aptamer-based cell imaging reagents capable of fluorescence switching. <i>Chemical Communications</i> , 2014 , 50, 12329-32	5.8	22
105	Target-controlled formation of silver nanoclusters in abasic site-incorporated duplex DNA for label-free fluorescence detection of theophylline. <i>Nanoscale</i> , 2014 , 6, 9977-82	7.7	36
104	Ultrafast colorimetric detection of nucleic acids based on the inhibition of the oxidase activity of cerium oxide nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 9577-80	5.8	61
103	Cell-based method utilizing fluorescent <i>Escherichia coli</i> auxotrophs for quantification of multiple amino acids. <i>Analytical Chemistry</i> , 2014 , 86, 2489-96	7.8	10

102	DNA metallization for high performance Li-ion battery anodes. <i>Nano Energy</i> , 2014 , 8, 17-24	17.1	8
101	A highly efficient colorimetric immunoassay using a nanocomposite entrapping magnetic and platinum nanoparticles in ordered mesoporous carbon. <i>Advanced Healthcare Materials</i> , 2014 , 3, 36-41	10.1	49
100	Electrochemical Activity Studies of Glucose Oxidase (GOx)-Based and Pyranose Oxidase (POx)-Based Electrodes in Mesoporous Carbon: Toward Biosensor and Biofuel Cell Applications. <i>Electroanalysis</i> , 2014 , 26, 2075-2079	3	9
99	Application of the ASLP technology to a novel platform for rapid and noise-free multiplexed SNP genotyping. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 687-94	11.8	9
98	Cell-based galactosemia diagnosis system based on a galactose assay using a bioluminescent <i>Escherichia coli</i> array. <i>Analytical Chemistry</i> , 2013 , 85, 11083-9	7.8	10
97	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, 542-6	11.8	27
96	High-throughput nanoscale lipid vesicle synthesis in a semicircular contraction-expansion array microchannel. <i>Biochip Journal</i> , 2013 , 7, 210-217	4	14
95	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, 65-9	11.8	130
94	Effective peroxidase-like activity of a water-solubilized Fe-aminoclay for use in immunoassay. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 373-8	11.8	32
93	A one-step, electrochemical biosensing strategy that is based on transport of signaling CdS nanoparticles controlled by biomolecules. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 603-7	11.8	6
92	An electrochemically reversible DNA switch. <i>Electrochemistry Communications</i> , 2013 , 27, 100-103	5.1	11
91	Direct detection of unamplified genomic DNA based on photo-induced silver ion reduction by DNA molecules. <i>Chemical Communications</i> , 2013 , 49, 2350-2	5.8	16
90	A novel colorimetric immunoassay utilizing the peroxidase mimicking activity of magnetic nanoparticles. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 9999-10014	6.3	46
89	Enzyme precipitate coatings of glucose oxidase onto carbon paper for biofuel cell applications. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 318-24	4.9	12
88	A touchscreen as a biomolecule detection platform. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 748-51	16.4	15
87	Inside Cover: A Touchscreen as a Biomolecule Detection Platform (Angew. Chem. Int. Ed. 3/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 560-560	16.4	
86	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	2.9	43
85	Mismatched pyrrolo-dC-modified duplex DNA as a novel probe for sensitive detection of silver ions. <i>Chemical Communications</i> , 2012 , 48, 4549-51	5.8	48

84	Colorimetric quantification of galactose using a nanostructured multi-catalyst system entrapping galactose oxidase and magnetic nanoparticles as peroxidase mimetics. <i>Analyst, The</i> , 2012 , 137, 1137-43	5	44
83	Simple and universal platform for logic gate operations based on molecular beacon probes. <i>Small</i> , 2012 , 8, 2203-12, 2129	11	75
82	An electrostatic micromechanical biosensor for electrical detection of label-free DNA. <i>Applied Physics Letters</i> , 2012 , 100, 163701	3.4	6
81	A Touchscreen as a Biomolecule Detection Platform. <i>Angewandte Chemie</i> , 2012 , 124, 772-775	3.6	7
80	Innentitelbild: A Touchscreen as a Biomolecule Detection Platform (Angew. Chem. 3/2012). <i>Angewandte Chemie</i> , 2012 , 124, 578-578	3.6	
79	A convenient alcohol sensor using one-pot nanocomposite entrapping alcohol oxidase and magnetic nanoparticles as peroxidase mimetics. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 5914-9	1.3	19
78	Label-free DNA detection with a nanogap embedded complementary metal oxide semiconductor. <i>Nanotechnology</i> , 2011 , 22, 135502	3.4	45
77	Gold Nanoparticles - based Colorimetric Single Nucleotide Polymorphisms Genotyping Utilizing Allele-specific PCR. <i>IFMBE Proceedings</i> , 2011 , 1062-1065	0.2	
76	Electrochemical detection of DNA mutations on a PNA-modified electrode utilizing a single-stranded DNA specific endonuclease. <i>Chemical Communications</i> , 2011 , 47, 6611-3	5.8	16
75	A one-step electrochemical method for DNA detection that utilizes a peroxidase-mimicking DNAzyme amplified through PCR of target DNA. <i>Biosensors and Bioelectronics</i> , 2011 , 30, 73-7	11.8	18
74	GNA/aegPNA chimera loaded with RNA binding preference. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1996-94.5		3
73	An anisotropic snowflake-like structural assembly of polymer-capped gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2173-2180	2.3	24
72	Size and morphology controllable core cross-linked self-aggregates from poly(ethylene glycol-b-succinimide) copolymers. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 203-210	2.5	15
71	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, 1521-5	11	130
70	A Highly Efficient Electrochemical Biosensing Platform by Employing Conductive Nanocomposite Entrapping Magnetic Nanoparticles and Oxidase in Mesoporous Carbon Foam. <i>Advanced Functional Materials</i> , 2011 , 21, 2868-2875	15.6	72
69	Fabrication of nanoporous nanocomposites entrapping Fe ₃ O ₄ magnetic nanoparticles and oxidases for colorimetric biosensing. <i>Chemistry - A European Journal</i> , 2011 , 17, 10700-7	4.8	105
68	Colorimetric SNP genotyping based on allele-specific PCR by using a thiol-labeled primer. <i>ChemBioChem</i> , 2011 , 12, 1387-90	3.8	23
67	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, 1953-8	11.8	27

66	An ultrasensitive peroxidase DNAzyme-associated aptasensor that utilizes a target-triggered enzymatic signal amplification strategy. <i>Chemical Communications</i> , 2011 , 47, 9876-8	5.8	29
65	Investigation of the signaling mechanism and verification of the performance of an electrochemical real-time PCR system based on the interaction of methylene blue with DNA. <i>Analyst, The</i> , 2011 , 136, 1573-9	5	34
64	DNAzyme molecular beacon probes for target-induced signal-amplifying colorimetric detection of nucleic acids. <i>Analytical Chemistry</i> , 2011 , 83, 494-500	7.8	68
63	Cell-based quantification of homocysteine utilizing bioluminescent <i>Escherichia coli</i> auxotrophs. <i>Analytical Chemistry</i> , 2011 , 83, 3089-95	7.8	8
62	A Sexually Transmitted Disease (STD) DNA chip for the diagnosis of genitourinary infections. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4314-9	11.8	9
61	HER2/neu antibody conjugated poly(amino acid)-coated iron oxide nanoparticles for breast cancer MR imaging. <i>Biomacromolecules</i> , 2010 , 11, 2866-72	6.9	74
60	Multiplexed amino acid array utilizing bioluminescent <i>Escherichia coli</i> auxotrophs. <i>Analytical Chemistry</i> , 2010 , 82, 4072-7	7.8	14
59	Gold nanoparticle embedded silicon nanowire biosensor for applications of label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2182-5	11.8	42
58	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, 5937-43	7.8	41
57	Pyrrolo-dC based fluorescent aptasensors for the molecular recognition of targets. <i>Chemical Communications</i> , 2010 , 46, 3271-3	5.8	28
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