

Min-Gon Kim

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156
papers

4,261
citations

34
h-index

57
g-index

158
ext. papers

4,988
ext. citations

6.9
avg, IF

5.89
L-index

#	Paper	IF	Citations
156	Highly sensitive biosensing using arrays of plasmonic Au nanodisks realized by nanoimprint lithography. <i>ACS Nano</i> , 2011 , 5, 897-904	16.7	218
155	Graphene-based chemiluminescence resonance energy transfer for homogeneous immunoassay. <i>ACS Nano</i> , 2012 , 6, 2978-83	16.7	191
154	A dual gold nanoparticle conjugate-based lateral flow assay (LFA) method for the analysis of troponin I. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1999-2002	11.8	191
153	An aptamer-based dipstick assay for the rapid and simple detection of aflatoxin B1. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 288-94	11.8	145
152	Novel antibody/gold nanoparticle/magnetic nanoparticle nanocomposites for immunomagnetic separation and rapid colorimetric detection of <i>Staphylococcus aureus</i> in milk. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 432-9	11.8	143
151	Chemiluminescence competitive aptamer assay for the detection of aflatoxin B1 in corn samples. <i>Food Control</i> , 2014 , 36, 30-35	6.2	122
150	A regeneratable, label-free, localized surface plasmon resonance (LSPR) aptasensor for the detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 321-7	11.8	110
149	Electrically conductive graphene/polyacrylamide hydrogels produced by mild chemical reduction for enhanced myoblast growth and differentiation. <i>Acta Biomaterialia</i> , 2017 , 48, 100-109	10.8	104
148	One-touch-activated blood multidagnostic system using a minimally invasive hollow microneedle integrated with a paper-based sensor. <i>Lab on A Chip</i> , 2015 , 15, 3286-92	7.2	83
147	A Paper-Based Device for Performing Loop-Mediated Isothermal Amplification with Real-Time Simultaneous Detection of Multiple DNA Targets. <i>Theranostics</i> , 2017 , 7, 2220-2230	12.1	83
146	A structure-switchable aptasensor for aflatoxin B1 detection based on assembly of an aptamer/split DNAzyme. <i>Analytica Chimica Acta</i> , 2015 , 886, 182-7	6.6	79
145	Detection of ochratoxin A (OTA) in coffee using chemiluminescence resonance energy transfer (CRET) aptasensor. <i>Food Chemistry</i> , 2016 , 194, 1102-7	8.5	78
144	High sensitivity detection of 16s rRNA using peptide nucleic acid probes and a surface plasmon resonance biosensor. <i>Analytica Chimica Acta</i> , 2008 , 630, 168-73	6.6	75
143	An optical fiber-based LSPR aptasensor for simple and rapid in-situ detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 504-509	11.8	75
142	Vertical flow immunoassay (VFA) biosensor for a rapid one-step immunoassay. <i>Lab on A Chip</i> , 2013 , 13, 768-72	7.2	73
141	Addressable micropatterning of multiple proteins and cells by microscope projection photolithography based on a protein friendly photoresist. <i>Langmuir</i> , 2010 , 26, 12112-8	4	71
140	A three-line lateral flow assay strip for the measurement of C-reactive protein covering a broad physiological concentration range in human sera. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 285-9	11.8	69

139	An automatic enzyme immunoassay based on a chemiluminescent lateral flow immunosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 53, 330-5	11.8	67
138	Surface plasmon resonance analysis of Alzheimer's beta-amyloid aggregation on a solid surface: from monomers to fully-grown fibrils. <i>Analytical Chemistry</i> , 2008 , 80, 2400-7	7.8	63
137	Homogeneous Immunosensor Based on Luminescence Resonance Energy Transfer for Glycated Hemoglobin Detection Using Upconversion Nanoparticles. <i>Analytical Chemistry</i> , 2016 , 88, 2742-6	7.8	52
136	Enhanced sensitivity of surface plasmon resonance (SPR) immunoassays using a peroxidase-catalyzed precipitation reaction and its application to a protein microarray. <i>Journal of Immunological Methods</i> , 2005 , 297, 125-32	2.5	50
135	Single-Step Recombinase Polymerase Amplification Assay Based on a Paper Chip for Simultaneous Detection of Multiple Foodborne Pathogens. <i>Analytical Chemistry</i> , 2018 , 90, 10211-10216	7.8	46
134	Stimulative effects of <i>Drynariae Rhizoma</i> extracts on the proliferation and differentiation of osteoblastic MC3T3-E1 cells. <i>Journal of Ethnopharmacology</i> , 2005 , 96, 489-95	5	46
133	An interference-free and rapid electrochemical lateral-flow immunoassay for one-step ultrasensitive detection with serum. <i>Analyst, The</i> , 2014 , 139, 1420-5	5	44
132	Electrical signaling of enzyme-linked immunosorbent assays with an ion-sensitive field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 318-23	11.8	43
131	Label-free homogeneous FRET immunoassay for the detection of mycotoxins that utilizes quenching of the intrinsic fluorescence of antibodies. <i>Biosensors and Bioelectronics</i> , 2013 , 42, 403-8	11.8	42
130	Detection of Biomolecular Binding Through Enhancement of Localized Surface Plasmon Resonance (LSPR) by Gold Nanoparticles. <i>Sensors</i> , 2009 , 9, 2334-44	3.8	42
129	Homogeneous assay of target molecules based on chemiluminescence resonance energy transfer (CRET) using DNAzyme-linked aptamers. <i>Biosensors and Bioelectronics</i> , 2014 , 58, 308-13	11.8	41
128	High-sensitivity detection of ATP using a localized surface plasmon resonance (LSPR) sensor and split aptamers. <i>Biosensors and Bioelectronics</i> , 2015 , 73, 26-31	11.8	40
127	A fusion protein expression analysis using surface plasmon resonance imaging. <i>Analytical Biochemistry</i> , 2004 , 330, 251-6	3.1	39
126	A label-free fluorescence immunoassay system for the sensitive detection of the mycotoxin, ochratoxin A. <i>Chemical Communications</i> , 2012 , 48, 2304-6	5.8	38
125	Single-Step LRET Aptasensor for Rapid Mycotoxin Detection. <i>Analytical Chemistry</i> , 2018 , 90, 716-722	7.8	37
124	A label-free, direct and noncompetitive FRET immunoassay for ochratoxin A based on intrinsic fluorescence of an antigen and antibody complex. <i>Chemical Communications</i> , 2011 , 47, 9098-100	5.8	35
123	A highly sensitive and widely adaptable plasmonic aptasensor using berberine for small-molecule detection. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 292-298	11.8	34
122	Paper-based nucleic acid testing system for simple and early diagnosis of mosquito-borne RNA viruses from human serum. <i>Biosensors and Bioelectronics</i> , 2020 , 151, 111998	11.8	34

121	Surface plasmon resonance imaging protein arrays for analysis of triple protein interactions of HPV, E6, E6AP, and p53. <i>Proteomics</i> , 2006 , 6, 2108-11	4.8	33
120	Enhanced rapidity for qualitative detection of <i>Listeria monocytogenes</i> using an enzyme-linked immunosorbent assay and immunochromatography strip test combined with immunomagnetic bead separation. <i>Journal of Food Protection</i> , 2008 , 71, 781-9	2.5	31
119	Rapid colorimetric detection of <i>Salmonella typhimurium</i> using a selective filtration technique combined with antibody-magnetic nanoparticle nanocomposites. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 859-66	4.4	30
118	Multichannel surface plasmon resonance imaging and analysis of micropatterned self-assembled monolayers and protein affinity interactions. <i>Langmuir</i> , 2005 , 21, 166-71	4	29
117	Development of Replication Protein A-Conjugated Gold Nanoparticles for Highly Sensitive Detection of Disease Biomarkers. <i>Analytical Chemistry</i> , 2019 , 91, 10001-10007	7.8	28
116	A colorimetric homogeneous immunoassay system for the C-reactive protein. <i>Analyst, The</i> , 2013 , 138, 1538-43	5	28
115	Distinct mechanisms for the upconversion of NaYF:Yb,Er nanoparticles revealed by stimulated emission depletion. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9739-9744	3.6	27
114	Graphene-oxide-based immunosensing through fluorescence quenching by peroxidase-catalyzed polymerization. <i>Small</i> , 2012 , 8, 1994-9	11	27
113	Signal amplification by enzymatic reaction in an immunosensor based on localized surface plasmon resonance (LSPR). <i>Sensors</i> , 2010 , 10, 2045-53	3.8	27
112	Fast and background-free three-dimensional (3D) live-cell imaging with lanthanide-doped upconverting nanoparticles. <i>Nanoscale</i> , 2015 , 7, 19397-402	7.7	26
111	Rapid and sensitive immunochromatographic strip for on-site detection of sulfamethazine in meats and eggs. <i>Journal of Food Science</i> , 2013 , 78, M1575-M1581	3.4	26
110	Analysis of recombinant protein expression using localized surface plasmon resonance (LSPR). <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2301-7	11.8	26
109	Zedoariae rhizoma and curcumin inhibits platelet-derived growth factor-induced proliferation of human hepatic myofibroblasts. <i>International Immunopharmacology</i> , 2005 , 5, 555-69	5.8	26
108	Quantitative analysis of lard in animal fat mixture using visible Raman spectroscopy. <i>Food Chemistry</i> , 2018 , 254, 109-114	8.5	25
107	Protein micropatterning on bifunctional organic-inorganic sol-gel hybrid materials. <i>Langmuir</i> , 2007 , 23, 4732-6	4	25
106	Solid-Phase Photocatalysts: Physical Vapor Deposition of Au Nanoislands on Porous TiO ₂ Films for Millimolar H ₂ O ₂ Production within a Few Minutes. <i>ACS Catalysis</i> , 2019 , 9, 9206-9211	13.1	24
105	Adenosine Triphosphate Bioluminescence-Based Bacteria Detection Using Targeted Photothermal Lysis by Gold Nanorods. <i>Analytical Chemistry</i> , 2018 , 90, 10171-10178	7.8	24
104	Automated, Universal, and Mass-Produced Paper-Based Lateral Flow Biosensing Platform for High-Performance Point-of-Care Testing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1885-1894	9.5	24

103	Homogeneous and selective detection of cadmium ions by forming fluorescent cadmium-protein nanoclusters. <i>Chemosphere</i> , 2017 , 174, 524-530	8.4	23
102	Transdermal thiol-acrylate polyethylene glycol hydrogel synthesis using near infrared light. <i>Nanoscale</i> , 2016 , 8, 14213-21	7.7	23
101	Colorimetric detection of PCR products of DNA from pathogenic bacterial targets based on a simultaneously amplified DNAzyme. <i>Mikrochimica Acta</i> , 2014 , 181, 1965-1971	5.8	23
100	The use of an engineered single chain variable fragment in a localized surface plasmon resonance method for analysis of the C-reactive protein. <i>Chemical Communications</i> , 2013 , 49, 9497-9	5.8	23
99	Levansucrase of <i>Rahnella aquatilis</i> ATCC33071. Gene cloning, expression, and levan formation. <i>Annals of the New York Academy of Sciences</i> , 1998 , 864, 506-11	6.5	23
98	Gold nanocap-supported upconversion nanoparticles for fabrication of a solid-phase aptasensor to detect ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2020 , 150, 111885	11.8	23
97	Improved near infrared-mediated hydrogel formation using diacrylated Pluronic F127-coated upconversion nanoparticles. <i>Materials Science and Engineering C</i> , 2018 , 90, 77-84	8.3	22
96	Label-free CRP detection using optical biosensor with one-step immobilization of antibody on nitrocellulose membrane. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 243-248	8.5	22
95	Paper/Soluble Polymer Hybrid-Based Lateral Flow Biosensing Platform for High-Performance Point-of-Care Testing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34564-34575	9.5	22
94	A hook effect-free immunochromatographic assay (HEF-ICA) for measuring the C-reactive protein concentration in one drop of human serum. <i>Theranostics</i> , 2018 , 8, 3189-3197	12.1	20
93	High sensitive and broad-range detection of cortisol in human saliva using a trap lateral flow immunoassay (trapLFI) sensor. <i>Analyst, The</i> , 2018 , 143, 3883-3889	5	20
92	An integrated allele-specific polymerase chain reaction-microarray chip for multiplex single nucleotide polymorphism typing. <i>Lab on A Chip</i> , 2012 , 12, 5146-54	7.2	20
91	Electrical immunosensor based on a submicron-gap interdigitated electrode and gold enhancement. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4690-6	11.8	20
90	Microcontact printing of biotin for selective immobilization of streptavidin-fused proteins and SPR analysis. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 137-142	3.1	20
89	Inhibitory effect of GBH on platelet aggregation through inhibition of intracellular Ca ²⁺ mobilization in activated human platelets. <i>Life Sciences</i> , 2004 , 75, 3063-76	6.8	20
88	Lab-on-paper for all-in-one molecular diagnostics (LAMDA) of zika, dengue, and chikungunya virus from human serum. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112400	11.8	19
87	Colorimetric Detection of Norovirus in Oyster Samples through DNAzyme as a Signaling Probe. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 3003-3008	5.7	19
86	Asymmetric Nanocrescent Antenna on Upconversion Nanocrystal. <i>Nano Letters</i> , 2017 , 17, 6583-6590	11.5	19

85	An immunochromatographic biosensor combined with a water-swellaable polymer for automatic signal generation or amplification. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 422-428	11.8	19
84	Ultrasensitive colorimetric detection of Salmonella enterica Typhimurium on lettuce leaves by HRPzyme-Integrated polymerase chain reaction. <i>Food Control</i> , 2018 , 84, 522-528	6.2	18
83	Simultaneous Detection of Serum Glucose and Glycated Albumin on a Paper-Based Sensor for Acute Hyperglycemia and Diabetes Mellitus. <i>Analytical Chemistry</i> , 2020 , 92, 11530-11534	7.8	18
82	Near-Infrared-Light-Assisted Photothermal Polymerization for Transdermal Hydrogelation and Cell Delivery. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1638-45	10.1	18
81	A colorimetric Loop-mediated isothermal amplification (LAMP) assay based on HRP-mimicking molecular beacon for the rapid detection of Vibrio parahaemolyticus. <i>Biosensors and Bioelectronics</i> , 2020 , 151, 111968	11.8	17
80	Ru(bpy) ₃ -Loaded Mesoporous Silica Nanoparticles as Electrochemiluminescent Probes of a Lateral Flow Immunosensor for Highly Sensitive and Quantitative Detection of Troponin I. <i>Small</i> , 2020 , 16, e2004535	11.1	17
79	Label-Free Direct Detection of Saxitoxin Based on a Localized Surface Plasmon Resonance Aptasensor. <i>Toxins</i> , 2019 , 11,	4.9	15
78	Ultrasensitive Detection of Escherichia coli O157:H7 by Immunomagnetic Separation and Selective Filtration with Nitroblue Tetrazolium/5-Bromo-4-chloro-3-indolyl Phosphate Signal Amplification. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 4941-4947	5.7	15
77	A Localized Surface Plasmon Resonance (LSPR)-based, simple, receptor-free and regeneratable Hg(2+) detection system. <i>Journal of Hazardous Materials</i> , 2016 , 307, 137-44	12.8	15
76	Light-induced anatomical alterations in retinal cells. <i>Analytical Biochemistry</i> , 2013 , 436, 84-92	3.1	15
75	In-gel expression and in situ immobilization of proteins for generation of three dimensional protein arrays in a hydrogel matrix. <i>Lab on A Chip</i> , 2013 , 13, 886-91	7.2	15
74	Screening of a specific monoclonal antibody against and detection of Listeria monocytogenes whole cells using a surface plasmon resonance biosensor. <i>Biotechnology and Bioprocess Engineering</i> , 2007 , 12, 80-85	3.1	15
73	Plasmon enhanced up-conversion nanoparticles in perovskite solar cells for effective utilization of near infrared light. <i>Nanoscale</i> , 2019 , 11, 22813-22819	7.7	15
72	Advanced Colorimetric Paper Sensors Using Color Focusing Effect Based on Asymmetric Flow of Fluid. <i>ACS Sensors</i> , 2019 , 4, 1103-1108	9.2	14
71	Electron beam lithography-assisted fabrication of Au nano-dot array as a substrate of a correlated AFM and confocal Raman spectroscopy. <i>Ultramicroscopy</i> , 2008 , 108, 1302-6	3.1	14
70	Human alpha-fetal protein immunoassay using fluorescence suppression with fluorescent-bead/antibody conjugate and enzymatic reaction. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 115-120	11.8	13
69	Glycation ratio determination through simultaneous detection of human serum albumin and glycated albumin on an advanced lateral flow immunoassay sensor. <i>Lab on A Chip</i> , 2020 , 20, 844-851	7.2	13
68	An innovative paper-based device for DNA extraction from processed meat products. <i>Food Chemistry</i> , 2020 , 321, 126708	8.5	13

67	An antibody-magnetic nanoparticle conjugate-based selective filtration method for the rapid colorimetric detection of <i>Listeria monocytogenes</i> . <i>Analytical Methods</i> , 2014 , 6, 9129-9135	3.2	13
66	Tear-off patterning: a simple method for patterning nitrocellulose membranes to improve the performance of point-of-care diagnostic biosensors. <i>Lab on A Chip</i> , 2015 , 15, 3006-12	7.2	13
65	A novel function of benzyl isothiocyanate in vascular smooth muscle cells: the role of ERK1/2, cell cycle regulation, and matrix metalloproteinase-9. <i>Journal of Cellular Physiology</i> , 2005 , 203, 493-500	7	13
64	Highly Sensitive Chemiluminescence-Based Lateral Flow Immunoassay for Cardiac Troponin I Detection in Human Serum. <i>Sensors</i> , 2020 , 20,	3.8	12
63	Advancements in DNA-assisted Immunosensors. <i>Biochip Journal</i> , 2020 , 14, 18-31	4	12
62	Selective assembly and guiding of actomyosin using carbon nanotube network monolayer patterns. <i>Langmuir</i> , 2007 , 23, 9535-9	4	12
61	On-chip <i>Escherichia coli</i> culture, purification, and detection of expressed proteins. <i>European Biophysics Journal</i> , 2006 , 35, 655-62	1.9	12
60	Design, Synthesis, and Evaluation of Gold Nanoparticle-Antibody-Horseradish Peroxidase Conjugates for Highly Sensitive Chemiluminescence Immunoassay (hs-CLIA). <i>Biotechnology and Bioprocess Engineering</i> , 2019 , 24, 206-214	3.1	11
59	Development of DNA Aptamers against the Nucleocapsid Protein of Severe Fever with Thrombocytopenia Syndrome Virus for Diagnostic Application: Catalytic Signal Amplification using Replication Protein A-Conjugated Liposomes. <i>Analytical Chemistry</i> , 2019 , 91, 13772-13779	7.8	11
58	Detection of the mycovirus OMSV in the edible mushroom, <i>Pleurotus ostreatus</i> , using an SPR biosensor chip. <i>Journal of Virological Methods</i> , 2008 , 148, 120-4	2.6	11
57	A handheld lateral flow strip for rapid DNA extraction from <i>Staphylococcus aureus</i> cell spiked in various samples. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5, 035035	1.5	11
56	A Size-Selectively Biomolecule-Immobilized Nanoprobe-Based Chemiluminescent Lateral Flow Immunoassay for Detection of Avian-Origin Viruses. <i>Analytical Chemistry</i> , 2021 , 93, 792-800	7.8	11
55	Self-Powered Biosensors Using Various Light Sources in Daily Life Environments: Integration of p-n Heterojunction Photodetectors and Colorimetric Reactions for Biomolecule Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39487-39493	9.5	11
54	Development of a DNA aptamer selection method based on the heterogeneous sandwich form and its application in a colorimetric assay for influenza A virus detection. <i>New Journal of Chemistry</i> , 2019 , 43, 6883-6889	3.6	10
53	A fluorescence enhancement-based label-free homogeneous immunoassay of benzo[a]pyrene (BaP) in aqueous solutions. <i>Chemosphere</i> , 2016 , 150, 407-413	8.4	10
52	A CMOS image sensor to recognize the cardiovascular disease markers troponin I and C-reactive protein. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 813-21	4.4	10
51	Efficient selection of IgG Fc domain-binding peptides fused to fluorescent protein using <i>E. coli</i> expression system and dot-blotting assay. <i>Peptides</i> , 2010 , 31, 202-6	3.8	10
50	Species-specific detection of <i>Listeria monocytogenes</i> using polymerase chain reaction assays targeting the <i>prfA</i> virulence gene cluster. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009 , 73, 1412-5	2.1	10

49	Real-time monitoring of cell-free protein synthesis on a surface plasmon resonance chip. <i>Analytical Biochemistry</i> , 2007 , 366, 170-4	3.1	10
48	Production and preliminary characterization of monoclonal antibodies highly specific to pork fat protein. <i>Food Control</i> , 2017 , 79, 80-86	6.2	9
47	A colorimetric and fluorescent chemosensor for detection of Hg ²⁺ using counterion exchange of cationic polydiacetylene. <i>Tetrahedron Letters</i> , 2017 , 58, 4340-4343	2	9
46	Colorimetric molecular diagnosis of the HIV gag gene using DNAzyme and a complementary DNA-extended primer. <i>Analyst, The</i> , 2018 , 143, 695-699	5	9
45	Evaluation of the transfer rate of ochratoxin a to decoctions of herbal medicines. <i>Food Science and Biotechnology</i> , 2014 , 23, 2103-2108	3	9
44	Time-dependent change of Hyper-Rayleigh Scattering from silver nanoparticle aggregates induced by salt. <i>Chemical Physics Letters</i> , 2014 , 600, 15-20	2.5	8
43	The effects of pH and surfactants on the absorption and fluorescence properties of ochratoxin A and zearalenone. <i>Luminescence</i> , 2015 , 30, 1106-11	2.5	8
42	Multi-layered stacks of fluorescent dye-doped silica nanoparticles decorated by gold nanoparticles for solid-phase optical biosensing. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17623		8
41	CMOS image sensor for detection of interferon gamma protein interaction as a point-of-care approach. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1641-9	4.4	8
40	Reactant/polymer hybrid films on p-n junction photodetectors for self-powered, non-invasive glucose biosensors. <i>Biosensors and Bioelectronics</i> , 2021 , 175, 112855	11.8	8
39	Immunosensing using a metal clad leaky waveguide biosensor for clinical diagnosis. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 288-294	8.5	7
38	An application of protein microarray in the screening of monoclonal antibodies against the oyster mushroom spherical virus. <i>Analytical Biochemistry</i> , 2008 , 374, 313-7	3.1	7
37	Surface plasmon resonance imaging analysis of hexahistidine-tagged protein on the gold thin film coated with a calix crown derivative. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 143-146	3.1	7
36	PCR method based on the ogdH gene for the detection of Salmonella spp. from chicken meat samples. <i>Journal of Microbiology</i> , 2004 , 42, 216-22	3	7
35	Determination of cerebrospinal fluid leakage by selective deletion of transferrin glycoform using an immunochromatographic assay. <i>Theranostics</i> , 2019 , 9, 4182-4191	12.1	6
34	Monitoring change in refractive index of cytosol of animal cells on affinity surface under osmotic stimulus for label-free measurement of viability. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 241-6	11.8	6
33	Homogeneous Fluorescence Resonance Energy Transfer Immunoassay for the Determination of Zearalenone. <i>Analytical Letters</i> , 2014 , 47, 453-464	2.2	6
32	Integrated Bioaerosol Sampling/Monitoring Platform: Field-Deployable and Rapid Detection of Airborne Viruses. <i>ACS Sensors</i> , 2020 , 5, 3915-3922	9.2	6

31	Open-Shell and Closed-Shell Quinoid-Aromatic Conjugated Polymers: Unusual Spin Magnetic and High Charge Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2887-2898	9.5	6
30	Rapid and Simple Detection of Ochratoxin A using Fluorescence Resonance Energy Transfer on Lateral Flow Immunoassay (FRET-LFI). <i>Toxins</i> , 2019 , 11,	4.9	5
29	Attomolar detection of cytokines using a chemiluminescence immunoassay based on an antibody-arrayed CMOS image sensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1248-1255	8.5	5
28	A Simple and Label-Free Detection of As using 3-nitro-L-tyrosine as an As-chelating Ligand. <i>Sensors</i> , 2019 , 19,	3.8	5
27	Sequential patterning of two fluorescent streptavidins assisted by photoactivatable biotin on an aminodextran-coated surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 67-72	6	5
26	Electrochemiluminescence-Incorporated Lateral Flow Immunosensors Using Ru(bpy)-Labeled Gold Nanoparticles for the Full-Range Detection of Physiological C-Reactive Protein Levels. <i>Analytical Chemistry</i> , 2021 , 93, 7925-7932	7.8	5
25	Ultrasensitive Detection Platform of Disease Biomarkers Based on Recombinase Polymerase Amplification with H-Sandwich Aptamers. <i>Analytical Chemistry</i> , 2021 , 93, 992-1000	7.8	5
24	Highly sensitive and universal detection strategy based on a colorimetric assay using target-specific heterogeneous sandwich DNA aptamer. <i>Analytica Chimica Acta</i> , 2020 , 1123, 73-80	6.6	4
23	A localized surface plasmon resonance (LSPR) immunosensor for CRP detection using 4-chloro-1-naphthol (4-CN) precipitation 2017 ,		3
22	Enhanced biomolecular detection based on localized surface plasmon resonance (LSPR) using enzyme-precipitation reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3246-9	1.3	3
21	Paper-based 1,5-anhydroglucitol quantification using enzyme-based glucose elimination. <i>Analyst</i> , 2020 , 145, 5740-5743	5	3
20	Plasmon color-preserved gold nanoparticle clusters for high sensitivity detection of SARS-CoV-2 based on lateral flow immunoassay.. <i>Biosensors and Bioelectronics</i> , 2022 , 205, 114094	11.8	3
19	Photoactivated immobilization of single-stranded DNAs on a psoralen-functionalized surface under low pH conditions. <i>Biochip Journal</i> , 2012 , 6, 174-183	4	2
18	Development of a Biomarker-Based Diagnostic Algorithm for Posttraumatic Syndrome after Physical Injury: Design of the BioPTS Study. <i>Psychiatry Investigation</i> , 2017 , 14, 513-517	3.1	2
17	One-Pot, Solid-Phase Immunosensing Platform Consisting of a Nanometer-Thick Au/TiO ₂ Photocatalytic Film and Cy5/Capture Antibody/Gold Nanorod Conjugates. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5454-5460	5.6	2
16	Aptamer-based selective KB cell killing by the photothermal effect of gold nanorods. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	1
15	Dark-field spectral imaging microscope for localized surface plasmon resonance-based biosensing 2015 ,		1
14	Label-free measurement of cell viability via counting cells attached on affinity substrates. <i>Biotechnology and Bioprocess Engineering</i> , 2014 , 19, 257-261	3.1	1

13	Observation of self-assembled fluorescent beads by scanning near-field optical microscopy and atomic force microscopy. <i>Ultramicroscopy</i> , 2006 , 106, 775-8	3.1	1
12	Rapid membrane-based photothermal PCR for disease detection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 360, 131554	8.5	1
11	Reagent Filming for Universal Point-of-Care Diagnostics.. <i>Small Methods</i> , 2021 , 5, e2100645	12.8	1
10	Paper-Based Airborne Bacteria Collection and DNA Extraction Kit. <i>Biosensors</i> , 2021 , 11,	5.9	1
9	Paper-Based Molecular Diagnostics. <i>Bioanalysis</i> , 2021 , 155-181	0.5	1
8	Immobilized DNA aptamers used as potent attractors for vascular endothelial cell: in vitro study of female rat. <i>Bioscience Reports</i> , 2020 , 40,	4.1	1
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6	Development of HRPzyme-Integrated PCR Platform for Colorimetric Detection of Foodborne Pathogens 2018 ,		1
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