Min-Jung Kang

List of Publications by Year
in descending order

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85 papers	1,414 citations	361413 20 h-index	454955 30 g-index
85 all docs	85 docs citations	85 times ranked	1251 citing authors

#	Article	IF	Citations
1	One-step immunoassay for food allergens based on screened mimotopes from autodisplayed FV-antibody library. Biosensors and Bioelectronics, 2022, 202, 113976.	10.1	12
2	Capacitive biosensor based on vertically paired electrodes for the detection of SARS-CoV-2. Biosensors and Bioelectronics, 2022, 202, 113975.	10.1	20
3	Electrochemical One-Step Immunoassay Based on Switching Peptides and Pyrolyzed Carbon Electrodes. ACS Sensors, 2022, 7, 215-224.	7.8	8
4	Quantitative analysis of vitamin D using m/MALDI-TOF mass spectrometry based on a parylene matrix chip. Journal of Analytical Science and Technology, 2022, 13, .	2.1	3
5	Laser desorption/ionization mass spectrometry of L-thyroxine (T4) using combi-matrix of Î±-cyano-4-hydroxycinnamic acid (CHCA) and graphene. Journal of Analytical Science and Technology, 2022, 13, .	2.1	3
6	Homogeneous One-Step Immunoassay Based on Switching Peptides for Detection of the Influenza Virus. Analytical Chemistry, 2022, 94, 9627-9635.	6.5	3
7	Plasma deposition of parylene-C film. Materials Today Communications, 2021, 26, 101834.	1.9	10
8	Diagnosis of severe sepsis using phospholipids enzymatic assay based on cyclic voltammetry. Enzyme and Microbial Technology, 2021, 144, 109728.	3.2	3
9	Competitive Immunoassay of SARS-CoV-2 Using Pig Sera-Derived Anti-SARS-CoV-2 Antibodies. Biochip Journal, 2021, 15, 100-108.	4.9	20
10	Anti-SARS-CoV-2 Nucleoprotein Antibodies Derived from Pig Serum with a Controlled Specificity. Biochip Journal, 2021, 15, 195.	4.9	15
11	Microbial biosensor for Salmonella using anti-bacterial antibodies isolated from human serum. Enzyme and Microbial Technology, 2021, 144, 109721.	3.2	11
12	Screening of Fv Antibodies with Specific Binding Activities to Monosodium Urate and Calcium Pyrophosphate Dihydrate Crystals for the Diagnosis of Gout and Pseudogout. ACS Applied Bio Materials, 2021, 4, 3388-3397.	4.6	15
13	Switching-peptides for one-step immunoassay and its application to the diagnosis of human hepatitis B. Biosensors and Bioelectronics, 2021, 178, 112996.	10.1	11
14	Laserâ€Induced Surface Reconstruction of Nanoporous Auâ€Modified TiO₂ Nanowires for In Situ Performance Enhancement in Desorption and Ionization Mass Spectrometry. Advanced Functional Materials, 2021, 31, 2102475.	14.9	22
15	Cesium Lead Bromide (CsPbBr₃) Perovskite Quantum Dot-Based Photosensor for Chemiluminescence Immunoassays. ACS Applied Materials & Interfaces, 2021, 13, 29392-29405.	8.0	34
16	Screening of biotin-binding FV-antibodies from autodisplayed FV-library on E.Âcoli outer membrane. Analytica Chimica Acta, 2021, 1169, 338627.	5.4	10
17	Isolation of Antibodies Against the Spike Protein of SARS-CoV from Pig Serum for Competitive Immunoassay. Biochip Journal, 2021, 15, 396-405.	4.9	15
18	Rapid Analysis of Bacterial Contamination in Platelets without Pre-Enrichment Using Pig Serum-Derived Antibodies. ACS Applied Bio Materials, 2021, 4, 7779-7789.	4.6	4

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19	Photothermal Structural Dynamics of Au Nanofurnace for In Situ Enhancement in Desorption and Ionization. Small, 2021, 17, e2103745.	10.0	15
20	Quantitative analysis of galactose using LDI-TOF MS based on a TiO2 nanowire chip. Journal of Analytical Science and Technology, 2021, 12, .	2.1	2
21	Highly sensitive in situ-synthesized cadmium sulfide (CdS) nanowire photosensor for chemiluminescent immunoassays. Enzyme and Microbial Technology, 2020, 133, 109457.	3.2	11
22	Pig Sera-derived Anti-SARS-CoV-2 Antibodies in Surface Plasmon Resonance Biosensors. Biochip Journal, 2020, 14, 358-368.	4.9	38
23	Coffee Ring Effect Free TiO₂ Nanotube Array for Quantitative Laser Desorption/Ionization Mass Spectrometry. ACS Applied Nano Materials, 2020, 3, 9249-9259.	5.0	19
24	An On-chip Chemiluminescent Immunoassay for Bacterial Detection using in Situ-synthesized Cadmium Sulfide Nanowires with Passivation Layers. Biochip Journal, 2020, 14, 268-278.	4.9	25
25	One-step immunoassay without washing steps for influenza A virus detection using ISFET. Biosensors and Bioelectronics, 2020, 165, 112341.	10.1	11
26	A TiO₂ nanowire photocatalyst for dual-ion production in laser desorption/ionization (LDI) mass spectrometry. Chemical Communications, 2020, 56, 4420-4423.	4.1	14
27	Simultaneous Analysis of Multiple Cancer Biomarkers Using MALDI-TOF Mass Spectrometry Based on a Parylene-Matrix Chip. Journal of the American Society for Mass Spectrometry, 2020, 31, 917-926.	2.8	14
28	Application of a thermophoretic immunoassay in the diagnosis of lupus using outer membrane particles from E. coli. Biosensors and Bioelectronics, 2020, 156, 112110.	10.1	4
29	Obscurin and Clusterin Elevation in Serum of Acute Myocardial Infarction Patients. Bulletin of the Korean Chemical Society, 2020, 41, 266-273.	1.9	2
30	Nanostructured TiO2 Materials for Analysis of Gout-Related Crystals Using Laser Desorption/Ionization Time-of-Flight (LDI-ToF) Mass Spectrometry. Analytical Chemistry, 2019, 91, 11283-11290.	6.5	18
31	MALDI-TOF Mass Spectrometry Based on Parylene-Matrix Chip for the Analysis of Lysophosphatidylcholine in Sepsis Patient Sera. Analytical Chemistry, 2019, 91, 14719-14727.	6.5	25
32	Identification of new binding proteins of focal adhesion kinase using immunoprecipitation and mass spectrometry. Scientific Reports, 2019, 9, 12908.	3.3	9
33	Application of Capillary Electrophoresis with Laser-Induced Fluorescence to Immunoassays and Enzyme Assays. Molecules, 2019, 24, 1977.	3.8	17
34	Synergistic Effect of the Heterostructure of Au Nanoislands on TiO₂ Nanowires for Efficient Ionization in Laser Desorption/Ionization Mass Spectrometry. ACS Applied Materials & Interfaces, 2019, 11, 20509-20520.	8.0	33
35	Surface display of sialyltransferase on the outer membrane of Escherichia coli and ClearColi. Enzyme and Microbial Technology, 2019, 128, 1-8.	3.2	6
36	Hypersensitive electrochemical immunoassays based on highly N-doped silicon carbide (SiC) electrode. Analytica Chimica Acta, 2019, 1073, 30-38.	5.4	13

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37	Thermophoretic diagnosis of autoimmune diseases based on Escherichia coli with autodisplayed autoantigens. Analytica Chimica Acta, 2019, 1055, 106-114.	5.4	7
38	Fluorescence immunoassay of E. coli using anti-lipopolysaccharide antibodies isolated from human serum. Biosensors and Bioelectronics, 2019, 126, 518-528.	10.1	25
39	Characterization of <italic>in-situ</italic> Synthesized CdSxSe1â^'x Ternary Alloy Nanowire Photosensor. Journal of the Korean Ceramic Society, 2019, 56, 308-316.	2.3	7
40	Chronoamperometry-Based Redox Cycling for Application to Immunoassays. ACS Sensors, 2018, 3, 106-112.	7.8	26
41	Refolding of autodisplayed anti-NEF scFv through oxidation with glutathione for immunosensors. Biosensors and Bioelectronics, 2018, 102, 600-609.	10.1	7
42	TiO₂ Nanowires from Wet-Corrosion Synthesis for Peptide Sequencing Using Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. ACS Applied Materials & Interfaces, 2018, 10, 33790-33802.	8.0	20
43	Capillary electrophoresis-laser-induced fluorescence (CE-LIF)-based immunoassay for quantifying antibodies against cyclic citrullinated peptides. Analyst, The, 2018, 143, 3141-3147.	3.5	9
44	Capacitive biosensor based on vertically paired electrode with controlled parasitic capacitance. Sensors and Actuators B: Chemical, 2018, 273, 384-392.	7.8	14
45	Validation of Neurotensin Receptor 1 as a Therapeutic Target for Gastric Cancer. Molecules and Cells, 2018, 41, 591-602.	2.6	10
46	In situ-synthesized cadmium sulfide nanowire photosensor with a parylene passivation layer for chemiluminescent immunoassays. Biosensors and Bioelectronics, 2017, 92, 221-228.	10.1	14
47	Autodisplay of the La/SSB protein on LPS-free E. coli for the diagnosis of SjÃ¶grenâ€™s syndrome. Enzyme and Microbial Technology, 2017, 100, 1-10.	3.2	9
48	Newborn screening by matrix-assisted laser desorption/ionization mass spectrometry based on parylene-matrix chip. Analytical Biochemistry, 2017, 530, 31-39.	2.4	11
49	Hypersensitive antibiotic susceptibility test based on a Î²-lactamase assay with a parylene-matrix chip. Enzyme and Microbial Technology, 2017, 97, 90-96.	3.2	8
50	A highly sensitive carbapenemase assay using laser desorption/ionization mass spectrometry based on a parylene-matrix chip. Enzyme and Microbial Technology, 2017, 104, 56-68.	3.2	6
51	Novel genes in brain tissues of EAE-induced normal and obese mice: Upregulation of metal ion-binding protein genes in obese-EAE mice. Neuroscience, 2017, 343, 322-336.	2.3	28
52	Cholecystokinin as a potent diagnostic marker for gastric cancer. Biochip Journal, 2017, 11, 14-20.	4.9	1
53	Sample preparation for detection of low abundance proteins in human plasma using ultra-high performance liquid chromatography coupled with highly accurate mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1060, 272-280.	2.3	10
54	Activity control of autodisplayed proteins on the same outer membrane layer of E. coli by using Z-domain/streptavidin/and lipase/foldase systems. Enzyme and Microbial Technology, 2017, 96, 85-95.	3.2	7

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55	Gold nanoislands chip for laser desorption/ionization (LDI) mass spectrometry. Biochip Journal, 2017, 11, 246-254.	4.9	13
56	Band-type microelectrodes for amperometric immunoassays. Analytica Chimica Acta, 2016, 928, 39-48.	5.4	9
57	Efficient PKC inhibitor screening achieved using a quantitative CEâ€LIF assay. Electrophoresis, 2016, 37, 3146-3153.	2.4	3
58	A magnetite suspension-based washing method for immunoassays using Escherichia coli cells with autodisplayed Z-domains. Enzyme and Microbial Technology, 2016, 92, 1-8.	3.2	8
59	Chemiluminescent lateral-flow immunoassays by using in-situ synthesis of CdS NW photosensor. Analytica Chimica Acta, 2016, 927, 99-106.	5.4	19
60	A leading role for NADPH oxidase in an in-vitro study of experimental autoimmune encephalomyelitis. Molecular Immunology, 2016, 72, 19-27.	2.2	7
61	Analysis of benzylpenicillin in milk using MALDI-TOF mass spectrometry with top-down synthesized TiO2 nanowires as the solid matrix. Chemosphere, 2016, 143, 64-70.	8.2	31
62	Experimental autoimmune encephalomyelitis and age-related correlations of NADPH oxidase, MMP-9, and cell adhesion molecules: The increased disease severity and bloodâ€“brain barrier permeability in middle-aged mice. Journal of Neuroimmunology, 2015, 287, 43-53.	2.3	23
63	Isolation and characterization of the outer membrane of Escherichia coli with autodisplayed Z-domains. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 842-847.	2.6	51
64	Activation of matrix metalloproteinase-9 (MMP-9) by neurotensin promotes cell invasion and migration through ERK pathway in gastric cancer. Tumor Biology, 2015, 36, 6053-6062.	1.8	56
65	Surface modification of parylene-N with UV-treatment to enhance the protein immobilization. European Polymer Journal, 2015, 68, 36-46.	5.4	14
66	Evaluation of a specific diagnostic marker for rheumatoid arthritis based on cyclic citrullinated peptide. Journal of Pharmaceutical and Biomedical Analysis, 2015, 115, 107-113.	2.8	10
67	Highly sensitive photosensor based on in situ synthesized CdS nanowires. Sensors and Actuators B: Chemical, 2015, 221, 884-890.	7.8	37
68	Highly sensitive bacterial susceptibility test against penicillin using parylene-matrix chip. Biosensors and Bioelectronics, 2015, 71, 306-312.	10.1	14
69	Paryleneâ€matrix chip for small molecule analysis using matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 274-280.	1.5	17
70	Nylon nanoweb with TiO₂ nanoparticles as a solid matrix for matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 2427-2436.	1.5	17
71	Matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry of small volatile molecules using a paryleneâ€matrix chip. Rapid Communications in Mass Spectrometry, 2014, 28, 2301-2306.	1.5	10
72	Ultrasonic isolation of the outer membrane of Escherichia coli with autodisplayed Z-domains. Enzyme and Microbial Technology, 2014, 66, 42-47.	3.2	15

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73	Performance characteristic of anti-cyclic citrullinated peptide (CCP) assay on Korean rheumatoid arthritis (RA) patients and healthy controls. Journal of Pharmaceutical and Biomedical Analysis, 2014, 92, 69-73.	2.8	4
74	FACS-based immunoassay of troponin-I using E. coli cells with autodisplayed Z-domains. Analytical Methods, 2014, 6, 1700-1708.	2.7	12
75	A capacitive biosensor based on an interdigitated electrode with nanoislands. Analytica Chimica Acta, 2014, 844, 27-34.	5.4	49
76	Top-down synthesized TiO2 nanowires as a solid matrix for surface-assisted laser desorption/ionization time-of-flight (SALDI-TOF) mass spectrometry. Analytica Chimica Acta, 2014, 836, 53-60.	5.4	32
77	Magnetic-bead-based immunoassay using E. coli cells with autodisplayed Z-domains. Enzyme and Microbial Technology, 2013, 53, 118-122.	3.2	13
78	Flow cytometric immunoassay using E. coli with autodisplayed Z-domains. Enzyme and Microbial Technology, 2013, 53, 181-188.	3.2	20
79	Covalent protein immobilization with a paryleneâ€H film for matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 1149-1154.	1.5	16
80	Electrochemical ELISA based on Escherichia coli with autodisplayed Z-domains. Sensors and Actuators B: Chemical, 2012, 175, 46-52.	7.8	27
81	SPR biosensor based on immobilized E.coli cells with autodisplayed Z-domains. Biochip Journal, 2012, 6, 221-228.	4.9	23
82	Multireaction monitoring of 12 peptides for lowered immunity screening. Analytical and Bioanalytical Chemistry, 2012, 404, 2249-2258.	3.7	2
83	Immunostick assay for medical diagnosis of rheumatoid arthritis. Biotechnology and Bioprocess Engineering, 2011, 16, 1248-1253.	2.6	4
84	Validation and application of a screening method forÎ²2-agonists, anti-estrogenic substances and mesocarb in human urine using liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 252-264.	1.5	40
85	Nanowire-assisted laser desorption and ionization mass spectrometry for quantitative analysis of small molecules. Rapid Communications in Mass Spectrometry, 2005, 19, 3166-3170.	1.5	104