

# Min-Jung Kang

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Nanowire-assisted laser desorption and ionization mass spectrometry for quantitative analysis of small molecules. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3166-3170.	1.5	104
2	Activation of matrix metalloproteinase-9 (MMP-9) by neurotensin promotes cell invasion and migration through ERK pathway in gastric cancer. <i>Tumor Biology</i> , 2015, 36, 6053-6062.	1.8	56
3	Isolation and characterization of the outer membrane of <i>Escherichia coli</i> with autodisplayed Z-domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 842-847.	2.6	51
4	A capacitive biosensor based on an interdigitated electrode with nanoislands. <i>Analytica Chimica Acta</i> , 2014, 844, 27-34.	5.4	49
5	Validation and application of a screening method for $\beta$ -agonists, anti-estrogenic substances and mesocarb in human urine using liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 252-264.	1.5	40
6	Pig Sera-derived Anti-SARS-CoV-2 Antibodies in Surface Plasmon Resonance Biosensors. <i>Biochip Journal</i> , 2020, 14, 358-368.	4.9	38
7	Highly sensitive photosensor based on in situ synthesized CdS nanowires. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 884-890.	7.8	37
8	Cesium Lead Bromide ( $\text{CsPbBr}_3$ ) Perovskite Quantum Dot-Based Photosensor for Chemiluminescence Immunoassays. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29392-29405.	8.0	34
9	Synergistic Effect of the Heterostructure of Au Nanowires on $\text{TiO}_2$ Nanowires for Efficient Ionization in Laser Desorption/Ionization Mass Spectrometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20509-20520.	8.0	33
10	Top-down synthesized $\text{TiO}_2$ nanowires as a solid matrix for surface-assisted laser desorption/ionization time-of-flight (SALDI-TOF) mass spectrometry. <i>Analytica Chimica Acta</i> , 2014, 836, 53-60.	5.4	32
11	Analysis of benzylpenicillin in milk using MALDI-TOF mass spectrometry with top-down synthesized $\text{TiO}_2$ nanowires as the solid matrix. <i>Chemosphere</i> , 2016, 143, 64-70.	8.2	31
12	Novel genes in brain tissues of EAE-induced normal and obese mice: Upregulation of metal ion-binding protein genes in obese-EAE mice. <i>Neuroscience</i> , 2017, 343, 322-336.	2.3	28
13	Electrochemical ELISA based on <i>Escherichia coli</i> with autodisplayed Z-domains. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 46-52.	7.8	27
14	Chronoamperometry-Based Redox Cycling for Application to Immunoassays. <i>ACS Sensors</i> , 2018, 3, 106-112.	7.8	26
15	MALDI-TOF Mass Spectrometry Based on Parylene-Matrix Chip for the Analysis of Lysophosphatidylcholine in Sepsis Patient Sera. <i>Analytical Chemistry</i> , 2019, 91, 14719-14727.	6.5	25
16	Fluorescence immunoassay of <i>E. coli</i> using anti-lipopolysaccharide antibodies isolated from human serum. <i>Biosensors and Bioelectronics</i> , 2019, 126, 518-528.	10.1	25
17	An On-chip Chemiluminescent Immunoassay for Bacterial Detection using in Situ-synthesized Cadmium Sulfide Nanowires with Passivation Layers. <i>Biochip Journal</i> , 2020, 14, 268-278.	4.9	25
18	SPR biosensor based on immobilized <i>E. coli</i> cells with autodisplayed Z-domains. <i>Biochip Journal</i> , 2012, 6, 221-228.	4.9	23

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19	Experimental autoimmune encephalomyelitis and age-related correlations of NADPH oxidase, MMP-9, and cell adhesion molecules: The increased disease severity and blood-brain barrier permeability in middle-aged mice. <i>Journal of Neuroimmunology</i> , 2015, 287, 43-53.	2.3	23
20	Laser-Induced Surface Reconstruction of Nanoporous Au-Modified TiO <sub>2</sub> Nanowires for In Situ Performance Enhancement in Desorption and Ionization Mass Spectrometry. <i>Advanced Functional Materials</i> , 2021, 31, 2102475.	14.9	22
21	Flow cytometric immunoassay using E. coli with autodisplayed Z-domains. <i>Enzyme and Microbial Technology</i> , 2013, 53, 181-188.	3.2	20
22	TiO <sub>2</sub> Nanowires from Wet-Corrosion Synthesis for Peptide Sequencing Using Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33790-33802.	8.0	20
23	Competitive Immunoassay of SARS-CoV-2 Using Pig Sera-Derived Anti-SARS-CoV-2 Antibodies. <i>Biochip Journal</i> , 2021, 15, 100-108.	4.9	20
24	Capacitive biosensor based on vertically paired electrodes for the detection of SARS-CoV-2. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113975.	10.1	20
25	Chemiluminescent lateral-flow immunoassays by using in-situ synthesis of CdS NW photosensor. <i>Analytica Chimica Acta</i> , 2016, 927, 99-106.	5.4	19
26	Coffee Ring Effect Free TiO <sub>2</sub> Nanotube Array for Quantitative Laser Desorption/Ionization Mass Spectrometry. <i>ACS Applied Nano Materials</i> , 2020, 3, 9249-9259.	5.0	19
27	Nanostructured TiO <sub>2</sub> Materials for Analysis of Gout-Related Crystals Using Laser Desorption/Ionization Time-of-Flight (LDI-ToF) Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 11283-11290.	6.5	18
28	Parylene matrix chip for small molecule analysis using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 274-280.	1.5	17
29	Nylon nanoweb with TiO <sub>2</sub> nanoparticles as a solid matrix for matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2427-2436.	1.5	17
30	Application of Capillary Electrophoresis with Laser-Induced Fluorescence to Immunoassays and Enzyme Assays. <i>Molecules</i> , 2019, 24, 1977.	3.8	17
31	Covalent protein immobilization with a parylene film for matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1149-1154.	1.5	16
32	Ultrasonic isolation of the outer membrane of Escherichia coli with autodisplayed Z-domains. <i>Enzyme and Microbial Technology</i> , 2014, 66, 42-47.	3.2	15
33	Anti-SARS-CoV-2 Nucleoprotein Antibodies Derived from Pig Serum with a Controlled Specificity. <i>Biochip Journal</i> , 2021, 15, 195.	4.9	15
34	Screening of Fv Antibodies with Specific Binding Activities to Monosodium Urate and Calcium Pyrophosphate Dihydrate Crystals for the Diagnosis of Gout and Pseudogout. <i>ACS Applied Bio Materials</i> , 2021, 4, 3388-3397.	4.6	15
35	Isolation of Antibodies Against the Spike Protein of SARS-CoV from Pig Serum for Competitive Immunoassay. <i>Biochip Journal</i> , 2021, 15, 396-405.	4.9	15
36	Photothermal Structural Dynamics of Au Nanofurnace for In Situ Enhancement in Desorption and Ionization. <i>Small</i> , 2021, 17, e2103745.	10.0	15

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37	Surface modification of parylene-N with UV-treatment to enhance the protein immobilization. <i>European Polymer Journal</i> , 2015, 68, 36-46.	5.4	14
38	Highly sensitive bacterial susceptibility test against penicillin using parylene-matrix chip. <i>Biosensors and Bioelectronics</i> , 2015, 71, 306-312.	10.1	14
39	In situ-synthesized cadmium sulfide nanowire photosensor with a parylene passivation layer for chemiluminescent immunoassays. <i>Biosensors and Bioelectronics</i> , 2017, 92, 221-228.	10.1	14
40	Capacitive biosensor based on vertically paired electrode with controlled parasitic capacitance. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 384-392.	7.8	14
41	A TiO <sub>2</sub> nanowire photocatalyst for dual-ion production in laser desorption/ionization (LDI) mass spectrometry. <i>Chemical Communications</i> , 2020, 56, 4420-4423.	4.1	14
42	Simultaneous Analysis of Multiple Cancer Biomarkers Using MALDI-TOF Mass Spectrometry Based on a Parylene-Matrix Chip. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 917-926.	2.8	14
43	Magnetic-bead-based immunoassay using <i>E. coli</i> cells with autodisplayed Z-domains. <i>Enzyme and Microbial Technology</i> , 2013, 53, 118-122.	3.2	13
44	Gold nanoislands chip for laser desorption/ionization (LDI) mass spectrometry. <i>Biochip Journal</i> , 2017, 11, 246-254.	4.9	13
45	Hypersensitive electrochemical immunoassays based on highly N-doped silicon carbide (SiC) electrode. <i>Analytica Chimica Acta</i> , 2019, 1073, 30-38.	5.4	13
46	FACS-based immunoassay of troponin-I using <i>E. coli</i> cells with autodisplayed Z-domains. <i>Analytical Methods</i> , 2014, 6, 1700-1708.	2.7	12
47	One-step immunoassay for food allergens based on screened mimotopes from autodisplayed FV-antibody library. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113976.	10.1	12
48	Newborn screening by matrix-assisted laser desorption/ionization mass spectrometry based on parylene-matrix chip. <i>Analytical Biochemistry</i> , 2017, 530, 31-39.	2.4	11
49	Highly sensitive in situ-synthesized cadmium sulfide (CdS) nanowire photosensor for chemiluminescent immunoassays. <i>Enzyme and Microbial Technology</i> , 2020, 133, 109457.	3.2	11
50	One-step immunoassay without washing steps for influenza A virus detection using ISFET. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112341.	10.1	11
51	Microbial biosensor for <i>Salmonella</i> using anti-bacterial antibodies isolated from human serum. <i>Enzyme and Microbial Technology</i> , 2021, 144, 109721.	3.2	11
52	Switching-peptides for one-step immunoassay and its application to the diagnosis of human hepatitis B. <i>Biosensors and Bioelectronics</i> , 2021, 178, 112996.	10.1	11
53	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of small volatile molecules using a parylene-matrix chip. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2301-2306.	1.5	10
54	Evaluation of a specific diagnostic marker for rheumatoid arthritis based on cyclic citrullinated peptide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 115, 107-113.	2.8	10

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55	Sample preparation for detection of low abundance proteins in human plasma using ultra-high performance liquid chromatography coupled with highly accurate mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 272-280.	2.3	10
56	Plasma deposition of parylene-C film. <i>Materials Today Communications</i> , 2021, 26, 101834.	1.9	10
57	Screening of biotin-binding FV-antibodies from autodeposited FV-library on E. coli outer membrane. <i>Analytica Chimica Acta</i> , 2021, 1169, 338627.	5.4	10
58	Validation of Neurotensin Receptor 1 as a Therapeutic Target for Gastric Cancer. <i>Molecules and Cells</i> , 2018, 41, 591-602.	2.6	10
59	Band-type microelectrodes for amperometric immunoassays. <i>Analytica Chimica Acta</i> , 2016, 928, 39-48.	5.4	9
60	Autodisplay of the La/SSB protein on LPS-free E. coli for the diagnosis of Sjögren's syndrome. <i>Enzyme and Microbial Technology</i> , 2017, 100, 1-10.	3.2	9
61	Capillary electrophoresis-laser-induced fluorescence (CE-LIF)-based immunoassay for quantifying antibodies against cyclic citrullinated peptides. <i>Analyst</i> , 2018, 143, 3141-3147.	3.5	9
62	Identification of new binding proteins of focal adhesion kinase using immunoprecipitation and mass spectrometry. <i>Scientific Reports</i> , 2019, 9, 12908.	3.3	9
63	A magnetite suspension-based washing method for immunoassays using Escherichia coli cells with autodeposited Z-domains. <i>Enzyme and Microbial Technology</i> , 2016, 92, 1-8.	3.2	8
64	Hypersensitive antibiotic susceptibility test based on a $\beta$ -lactamase assay with a parylene-matrix chip. <i>Enzyme and Microbial Technology</i> , 2017, 97, 90-96.	3.2	8
65	Electrochemical One-Step Immunoassay Based on Switching Peptides and Pyrolyzed Carbon Electrodes. <i>ACS Sensors</i> , 2022, 7, 215-224.	7.8	8
66	A leading role for NADPH oxidase in an in-vitro study of experimental autoimmune encephalomyelitis. <i>Molecular Immunology</i> , 2016, 72, 19-27.	2.2	7
67	Activity control of autodeposited proteins on the same outer membrane layer of E. coli by using Z-domain/streptavidin/and lipase/foldase systems. <i>Enzyme and Microbial Technology</i> , 2017, 96, 85-95.	3.2	7
68	Refolding of autodeposited anti-NEF scFv through oxidation with glutathione for immunosensors. <i>Biosensors and Bioelectronics</i> , 2018, 102, 600-609.	10.1	7
69	Thermophoretic diagnosis of autoimmune diseases based on Escherichia coli with autodeposited autoantigens. <i>Analytica Chimica Acta</i> , 2019, 1055, 106-114.	5.4	7
70	Characterization of <i>in-situ</i> Synthesized CdS <sub>x</sub> Se <sub>1-x</sub> Ternary Alloy Nanowire Photosensor. <i>Journal of the Korean Ceramic Society</i> , 2019, 56, 308-316.	2.3	7
71	A highly sensitive carbapenemase assay using laser desorption/ionization mass spectrometry based on a parylene-matrix chip. <i>Enzyme and Microbial Technology</i> , 2017, 104, 56-68.	3.2	6
72	Surface display of sialyltransferase on the outer membrane of Escherichia coli and ClearColi. <i>Enzyme and Microbial Technology</i> , 2019, 128, 1-8.	3.2	6

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73	Immunostick assay for medical diagnosis of rheumatoid arthritis. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 1248-1253.	2.6	4
74	Performance characteristic of anti-cyclic citrullinated peptide (CCP) assay on Korean rheumatoid arthritis (RA) patients and healthy controls. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 92, 69-73.	2.8	4
75	Application of a thermophoretic immunoassay in the diagnosis of lupus using outer membrane particles from <i>E. coli</i> . <i>Biosensors and Bioelectronics</i> , 2020, 156, 112110.	10.1	4
76	Rapid Analysis of Bacterial Contamination in Platelets without Pre-Enrichment Using Pig Serum-Derived Antibodies. <i>ACS Applied Bio Materials</i> , 2021, 4, 7779-7789.	4.6	4
77	Efficient PKC inhibitor screening achieved using a quantitative CE-ELF assay. <i>Electrophoresis</i> , 2016, 37, 3146-3153.	2.4	3
78	Diagnosis of severe sepsis using phospholipids enzymatic assay based on cyclic voltammetry. <i>Enzyme and Microbial Technology</i> , 2021, 144, 109728.	3.2	3
79	Quantitative analysis of vitamin D using m/MALDI-TOF mass spectrometry based on a parylene matrix chip. <i>Journal of Analytical Science and Technology</i> , 2022, 13, .	2.1	3
80	Laser desorption/ionization mass spectrometry of L-thyroxine (T4) using combi-matrix of Î±-cyano-4-hydroxycinnamic acid (CHCA) and graphene. <i>Journal of Analytical Science and Technology</i> , 2022, 13, .	2.1	3
81	Homogeneous One-Step Immunoassay Based on Switching Peptides for Detection of the Influenza Virus. <i>Analytical Chemistry</i> , 2022, 94, 9627-9635.	6.5	3
82	Multireaction monitoring of 12 peptides for lowered immunity screening. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2249-2258.	3.7	2
83	Obscurin and Clusterin Elevation in Serum of Acute Myocardial Infarction Patients. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 266-273.	1.9	2
84	Quantitative analysis of galactose using LDI-TOF MS based on a TiO2 nanowire chip. <i>Journal of Analytical Science and Technology</i> , 2021, 12, .	2.1	2
85	Cholecystokinin as a potent diagnostic marker for gastric cancer. <i>Biochip Journal</i> , 2017, 11, 14-20.	4.9	1