

# Young-Pil Kim

## List of Publications by Year in descending order

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75  
papers

2,581  
citations

172457  
29  
h-index

197818  
49  
g-index

83  
all docs

83  
docs citations

83  
times ranked

3919  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Biocompatible Condensation Reaction for the Labeling of Terminal Cysteine Residues on Proteins. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9658-9662.	13.8	217
2	Energy Transfer-Based Multiplexed Assay of Proteases by Using Gold Nanoparticle and Quantum Dot Conjugates on a Surface. <i>Analytical Chemistry</i> , 2008, 80, 4634-4641.	6.5	176
3	Optimization of microencapsulation of seed oil by response surface methodology. <i>Food Chemistry</i> , 2008, 107, 98-105.	8.2	158
4	Preparation of a Magnetically Switchable Bio-electrocatalytic System Employing Cross-linked Enzyme Aggregates in Magnetic Mesocellular Carbon Foam. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7427-7432.	13.8	137
5	Tailoring photosensitive ROS for advanced photodynamic therapy. <i>Experimental and Molecular Medicine</i> , 2021, 53, 495-504.	7.7	104
6	Analysis of Protease Activity Using Quantum Dots and Resonance Energy Transfer. <i>Theranostics</i> , 2012, 2, 127-138.	10.0	93
7	Bioluminescent nanosensors for protease detection based upon gold nanoparticle-luciferase conjugates. <i>Chemical Communications</i> , 2010, 46, 76-78.	4.1	91
8	Antioxidant effect of natural plant extracts on the microencapsulated high oleic sunflower oil. <i>Journal of Food Engineering</i> , 2008, 84, 327-334.	5.2	83
9	Protein Kinase Assay on Peptide-Conjugated Gold Nanoparticles by Using Secondary-Ion Mass Spectrometric Imaging. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6816-6819.	13.8	78
10	Nanoparticle-Based Energy Transfer for Rapid and Simple Detection of Protein Glycosylation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7959-7963.	13.8	76
11	Creating Anti-icing Surfaces via the Direct Immobilization of Antifreeze Proteins on Aluminum. <i>Scientific Reports</i> , 2015, 5, 12019.	3.3	61
12	Extracellular matrix protein 1 regulates cell proliferation and trastuzumab resistance through activation of epidermal growth factor signaling. <i>Breast Cancer Research</i> , 2014, 16, 479.	5.0	58
13	Quantitative Analysis of Surface-Immobilized Protein by TOF-SIMS: Effects of Protein Orientation and Trehalose Additive. <i>Analytical Chemistry</i> , 2007, 79, 1377-1385.	6.5	56
14	Sublithographic vertical gold nanogap for label-free electrical detection of protein-ligand binding. <i>Journal of Vacuum Science &amp; Technology B</i> , 2007, 25, 443.	1.3	50
15	Rapid detection of aflatoxin B1 by a bifunctional protein crosslinker-based surface plasmon resonance biosensor. <i>Food Control</i> , 2014, 36, 183-190.	5.5	46
16	HETEROSIGMA AKASHIWO (RAPHIDOPHYCEAE) RESTING CELL FORMATION IN BATCH CULTURE: STRAIN IDENTITY VERSUS PHYSIOLOGICAL RESPONSE. 1, 2. <i>Journal of Phycology</i> , 2002, 38, 304-317.	2.3	44
17	On-chip detection of protein glycosylation based on energy transfer between nanoparticles. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1189-1194.	10.1	44
18	Gold Nanoparticle-Enhanced Secondary Ion Mass Spectrometry Imaging of Peptides on Self-Assembled Monolayers. <i>Analytical Chemistry</i> , 2006, 78, 1913-1920.	6.5	41

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19	Probing nanoparticles and nanoparticle-conjugated biomolecules using time-of-flight secondary ion mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2015, 34, 237-247.	5.4	38
20	Detection and Characterization of Cancer Cells and Pathogenic Bacteria Using Aptamer-Based Nano-Conjugates. <i>Sensors</i> , 2014, 14, 18302-18327.	3.8	37
21	Sensitive on-chip detection of cancer antigen 125 using a DNA aptamer/carbon nanotube network platform. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 89-97.	7.8	36
22	Protein kinase assay on peptide-conjugated gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2008, 23, 980-986.	10.1	35
23	Multivariate analysis of ToF-SIMS data for biological applications. <i>Surface and Interface Analysis</i> , 2009, 41, 694-703.	1.8	35
24	Colorimetric assay of matrix metalloproteinase activity based on metal-induced self-assembly of carboxy gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 41, 833-839.	10.1	34
25	Fluorescing aptamer-gold nanosensors for enhanced sensitivity to bisphenol A. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 371-379.	7.8	34
26	Self-luminescent photodynamic therapy using breast cancer targeted proteins. <i>Science Advances</i> , 2020, 6, .	10.3	34
27	Activity-Based Assay of Matrix Metalloproteinase on Nonbiofouling Surfaces Using Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 5094-5102.	6.5	33
28	Gold nanoparticle-based fluorescence quenching via metal coordination for assaying protease activity. <i>Gold Bulletin</i> , 2012, 45, 213-219.	2.4	31
29	Gold nanoparticle-composite nanofibers for enzymatic electrochemical sensing of hydrogen peroxide. <i>Analyst</i> , The, 2013, 138, 5025.	3.5	28
30	Acteoside Improves Survival in Cecal Ligation and Puncture-Induced Septic Mice via Blocking of High Mobility Group Box 1 Release. <i>Molecules and Cells</i> , 2013, 35, 348-354.	2.6	28
31	Oligomerization between BSU1 Family Members Potentiates Brassinosteroid Signaling in Arabidopsis. <i>Molecular Plant</i> , 2016, 9, 178-181.	8.3	27
32	Effect of natural antioxidants on the lipid oxidation of microencapsulated seed oil. <i>Food Control</i> , 2012, 23, 528-534.	5.5	26
33	SERS-based genetic assay for amplification-free detection of prostate cancer specific PCA3 mimic DNA. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 302-309.	7.8	24
34	Fluorescent and bioluminescent nanoprobes for in vitro and in vivo detection of matrix metalloproteinase activity. <i>BMB Reports</i> , 2015, 48, 313-318.	2.4	23
35	Quantitative ToF-SIMS study of surface-immobilized streptavidin. <i>Applied Surface Science</i> , 2006, 252, 6801-6804.	6.1	22
36	Rapid Detection of Protein Phosphatase Activity Using Zn(II)-Coordinated Gold Nanosensors Based on His-Tagged Phosphopeptides. <i>Analytical Chemistry</i> , 2015, 87, 1257-1265.	6.5	21

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37	Plasma-polymerized antifouling biochips for label-free measurement of protease activity in cell culture media. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 527-534.	7.8	21
38	Protein profiling in human sera for identification of potential lung cancer biomarkers using antibody microarray. <i>Proteomics</i> , 2009, 9, 5544-5552.	2.2	20
39	Immobilizing Reporters for Molecular Imaging of the Extracellular Microenvironment in Living Animals. <i>ACS Chemical Biology</i> , 2011, 6, 1117-1126.	3.4	17
40	Protein quantification on dendrimer-activated surfaces by using time-of-flight secondary ion mass spectrometry and principal component regression. <i>Applied Surface Science</i> , 2008, 255, 1110-1112.	6.1	16
41	Nanoparticles for Use in Enzyme Assays. <i>ChemBioChem</i> , 2016, 17, 275-282.	2.6	15
42	Rapid Detection of the Epidermal Growth Factor Receptor Mutation in Non-Small-Cell Lung Cancer for Analysis of Acquired Resistance Using Molecular Beacons. <i>Journal of Molecular Diagnostics</i> , 2010, 12, 644-652.	2.8	14
43	Electrochemical glucose biosensor by electrostatic binding of PQQ-glucose dehydrogenase onto self-assembled monolayers on gold. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 383-390.	2.9	14
44	Frozen assembly of gold nanoparticles for rapid analysis of antifreeze protein activity. <i>Biosensors and Bioelectronics</i> , 2013, 41, 752-757.	10.1	14
45	Synergistic oxidation of NADH on bimetallic CoPt nanoparticles decorated carbon nitride nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 204-211.	7.8	14
46	Collagen-Immobilized Extracellular FRET Reporter for Visualizing Protease Activity Secreted by Living Cells. <i>ACS Sensors</i> , 2020, 5, 655-664.	7.8	14
47	Secondary Ions Mass Spectrometric Signal Enhancement of Peptides on Enlarged-Gold Nanoparticle Surfaces. <i>Analytical Chemistry</i> , 2012, 84, 4784-4788.	6.5	13
48	Rapid and sensitive determination of bisphenol A using aptamer and split DNAzyme. <i>Chemosphere</i> , 2019, 228, 110-116.	8.2	13
49	Gold nanoparticle-assisted SELEX as a visual monitoring platform for the development of small molecule-binding DNA aptasensors. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113468.	10.1	13
50	Magnetic Nanoclusters for Ultrasensitive Magnetophoretic Assays. <i>Small</i> , 2009, 5, 2243-2246.	10.0	12
51	Zn(II)-Coordinated Quantum Dot-FRET Nanosensors for the Detection of Protein Kinase Activity. <i>Sensors</i> , 2015, 15, 17977-17989.	3.8	11
52	Immuno-Nanoparticles for Multiplex Protein Imaging in Cells and Tissues. <i>Biochip Journal</i> , 2018, 12, 83-92.	4.9	11
53	Conjugation of prostate cancer-specific aptamers to polyethylene glycol-grafted polyethylenimine for enhanced gene delivery to prostate cancer cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 182-191.	5.8	11
54	Fluorogenic Aptasensors with Small Molecules. <i>Chemosensors</i> , 2021, 9, 54.	3.6	11

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55	Gold nanoparticle-enhanced secondary ion mass spectrometry and its bio-applications. Applied Surface Science, 2008, 255, 1064-1067.	6.1	10
56	On-Chip Peptide Mass Spectrometry Imaging for Protein Kinase Inhibitor Screening. Analytical Chemistry, 2017, 89, 799-806.	6.5	10
57	Analysis of in vitro SUMOylation using bioluminescence resonance energy transfer (BRET). Biochemical and Biophysical Research Communications, 2009, 382, 530-534.	2.1	9
58	Graying the self-assembly of gold nanoparticles for improved enzyme activity assays. Sensors and Actuators B: Chemical, 2017, 246, 271-277.	7.8	7
59	Detection of Matrix Metalloproteinase Activity by Bioluminescence via Intein-Mediated Biotinylation of Luciferase. Sensors, 2018, 18, 875.	3.8	7
60	Colorimetric Determination of Singlet Oxygen Scavengers Using a Protein Photosensitizer. Biochip Journal, 2020, 14, 148-157.	4.9	7
61	Enhancement of biomolecular detection sensitivity by surface plasmon resonance ellipsometry. , 2005, , .		5
62	Efficient enrichment and desalting of protein digests using magnetic mesocellular carbon foams in matrix-assisted laser desorption/ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3435-3442.	1.5	4
63	Highly Sensitive and Magnetically Switchable Biosensors Using Ordered Mesoporous Carbons. ACS Symposium Series, 2008, , 234-242.	0.5	4
64	Sensitive and multiplexed analysis of aflatoxins using time-of-flight secondary ion mass spectrometry. Biochip Journal, 2012, 6, 34-40.	4.9	4
65	Surface-tunable Bioluminescence Resonance Energy Transfer via Geometry-controlled ZnO Nanorod Coordination. Small, 2015, 11, 3469-3475.	10.0	4
66	Rapid Detection of Glycogen Synthase Kinase-3 Activity in Mouse Sperm Using Fluorescent Gel Shift Electrophoresis. Sensors, 2016, 16, 551.	3.8	4
67	Facile Determination of Sodium Ion and Osmolarity in Artificial Tears by Sequential DNAzymes. Sensors, 2017, 17, 2840.	3.8	4
68	Sequential phosphorylation analysis using dye-tethered peptides and microfluidic isoelectric focusing electrophoresis. Biosensors and Bioelectronics, 2015, 73, 93-99.	10.1	3
69	Microbial Redox Regulator-Enabled Pulldown for Rapid Analysis of Plasma Low-Molecular-Weight Biothiols. Analytical Chemistry, 2019, 91, 10064-10072.	6.5	3
70	Enzymatic Glucose Biosensors Based on Nanomaterials. Advances in Biochemical Engineering/Biotechnology, 2013, 140, 203-219.	1.1	2
71	Activatable Peptides for Rapid and Simple Visualization of Protease Activity Secreted in Living Cells. International Journal of Molecular Sciences, 2022, 23, 1605.	4.1	2
72	Bioluminescence Resonance Energy Transfer Nanoprobes for Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 57-66.	2.9	1

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73	Rapid electrokinetic detection of low-molecular-weight thiols by redox regulatory protein-DNA interaction in microfluidics. Sensors and Actuators B: Chemical, 2021, 336, 129735.	7.8	1
74	Antifreeze Protein-Covered Surfaces. , 2020, , 307-326.		1
75	Analysis of antifreeze protein activity using colorimetric gold nanosensors. Proceedings of SPIE, 2015, , .	0.8	0