

Moon-Young Yoon

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,642
citations

279798

23
h-index

377865

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93
all docs

93
docs citations

93
times ranked

2196
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Low-Molecular-Weight A β 242 Detection System Using a Enzyme-Linked Peptide Assay. <i>Biomolecules</i> , 2021, 11, 1818.	4.0	5
2	Advances in dermatology using DNA aptamer "Aptamin" innovation: Oxidative stress prevention and effect maximization of vitamin C through antioxidation. <i>Journal of Cosmetic Dermatology</i> , 2020, 19, 970-976.	1.6	15
3	Detection of Nonylphenol with a Gold-Nanoparticle-Based Small-Molecule Sensing System Using an ssDNA Aptamer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 208.	4.1	15
4	Development of a Novel ssDNA Sequence for a Glycated Human Serum Albumin and Construction of a Simple Aptasensor System Based on Reduced Graphene Oxide (rGO). <i>Biosensors</i> , 2020, 10, 141.	4.7	7
5	Development of peptide aptamers as alternatives for antibody in the detection of amyloid-beta 42 aggregates. <i>Analytical Biochemistry</i> , 2020, 609, 113921.	2.4	12
6	Development of a receptor-based inhibitory penta-unit-conjugated peptide to enhance anthrax toxin neutralization. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 327-335.	7.5	2
7	Development of ssDNA Aptamers for Diagnosis and Inhibition of the Highly Pathogenic Avian Influenza Virus Subtype H5N1. <i>Biomolecules</i> , 2020, 10, 1116.	4.0	12
8	Optical Sensing Properties of ZnO Nanoparticles Prepared by Spray Pyrolysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1048-1051.	0.9	7
9	Novel Peptide-Based Inhibitors for Microtubule Polymerization in <i>Phytophthora capsici</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 2641.	4.1	7
10	Ultrasensitive Fluorescence Detection of Alzheimer's Disease Based on Polyvalent Directed Peptide Polymer Coupled to a Nanoporous ZnO Nanoplatfrom. <i>Analytical Chemistry</i> , 2019, 91, 5573-5581.	6.5	30
11	Development of a ssDNA aptamer system with reduced graphene oxide (rGO) to detect nonylphenol ethoxylate in domestic detergent. <i>Journal of Molecular Recognition</i> , 2019, 32, e2764.	2.1	11
12	Inhibition of anthrax lethal factor by ssDNA aptamers. <i>Archives of Biochemistry and Biophysics</i> , 2018, 646, 16-23.	3.0	16
13	Development of quantum dot aptasensor and its portable analyzer for the detection of di-2-ethylhexyl phthalate. <i>Biosensors and Bioelectronics</i> , 2018, 121, 1-9.	10.1	37
14	Ultra-sensitive detection of kanamycin for food safety using a reduced graphene oxide-based fluorescent aptasensor. <i>Scientific Reports</i> , 2017, 7, 40305.	3.3	75
15	Development of a ssDNA aptamer for detection of residual benzylpenicillin. <i>Analytical Biochemistry</i> , 2017, 531, 1-7.	2.4	36
16	Mutation analysis of the interactions between <i>Mycobacterium tuberculosis</i> caseinolytic protease C1 (ClpC1) and ecumicin. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 348-357.	7.5	14
17	Paper chip-based colorimetric sensing assay for ultra-sensitive detection of residual kanamycin. <i>Process Biochemistry</i> , 2017, 62, 161-168.	3.7	43
18	Sensitive fluorescent imaging of <i>Salmonella enteritidis</i> and <i>Salmonella typhimurium</i> using a polyvalent directed peptide polymer. <i>Mikrochimica Acta</i> , 2017, 184, 2611-2620.	5.0	19

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19	Development of a novel imaging agent using peptide-coated gold nanoparticles toward brain glioma stem cell marker CD133. <i>Acta Biomaterialia</i> , 2017, 47, 182-192.	8.3	55
20	Development of potent chemical antituberculosis agents targeting <i>Mycobacterium tuberculosis</i> acetohydroxyacid synthase. <i>International Journal of Antimicrobial Agents</i> , 2016, 48, 247-258.	2.5	17
21	Design of a PKC δ -specific small peptide as a theragnostic agent for glioblastoma. <i>Analytical Biochemistry</i> , 2016, 496, 63-70.	2.4	3
22	Neural stem cells injured by oxidative stress can be rejuvenated by GV1001, a novel peptide, through scavenging free radicals and enhancing survival signals. <i>NeuroToxicology</i> , 2016, 55, 131-141.	3.0	34
23	Neuroprotective Effects of Acetyl-L-Carnitine Against Oxygen-Glucose Deprivation-Induced Neural Stem Cell Death. <i>Molecular Neurobiology</i> , 2016, 53, 6644-6652.	4.0	28
24	Use of Multiple Peptide-Based SERS Probes Binding to Different Epitopes on a Protein Biomarker To Improve Detection Sensitivity. <i>Analytical Chemistry</i> , 2016, 88, 3465-3470.	6.5	13
25	Development of inhibitory ssDNA aptamers for the FtsZ cell division protein from citrus canker phytopathogen. <i>Process Biochemistry</i> , 2016, 51, 24-33.	3.7	8
26	Synthesis, crystal structure and biological evaluation of substituted quinazolinone benzoates as novel antituberculosis agents targeting acetohydroxyacid synthase. <i>European Journal of Medicinal Chemistry</i> , 2015, 94, 298-305.	5.5	52
27	Functional evaluation of residues in the herbicide-binding site of <i>Mycobacterium tuberculosis</i> acetohydroxyacid synthase by site-directed mutagenesis. <i>Enzyme and Microbial Technology</i> , 2015, 78, 18-26.	3.2	8
28	Development of ssDNA aptamers as potent inhibitors of <i>Mycobacterium tuberculosis</i> acetohydroxyacid synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1338-1350.	2.3	35
29	Advances in Anthrax Detection: Overview of Bioprobes and Biosensors. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 957-977.	2.9	37
30	Development of receptor-based inhibitory RNA aptamers for anthrax toxin neutralization. <i>International Journal of Biological Macromolecules</i> , 2015, 77, 293-302.	7.5	11
31	Feasibility of asymmetrical flow field-flow fractionation as a method for detecting protective antigen by direct recognition of size-increased target-captured nanoprobe. <i>Journal of Chromatography A</i> , 2015, 1422, 239-246.	3.7	7
32	A novel peptide-based recognition probe for the sensitive detection of α CD44 on breast cancer stem cells. <i>Molecular and Cellular Probes</i> , 2015, 29, 492-499.	2.1	15
33	Mutational analysis of critical residues of FAD-independent catabolic acetolactate synthase from <i>Enterococcus faecalis</i> V583. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 104-109.	7.5	6
34	Development of ssDNA Aptamers for the Sensitive Detection of <i>Salmonella typhimurium</i> and <i>Salmonella enteritidis</i> . <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 793-802.	2.9	47
35	Structural and functional significance of the highly-conserved residues in <i>Mycobacterium tuberculosis</i> acetohydroxyacid synthase. <i>Enzyme and Microbial Technology</i> , 2014, 58-59, 52-59.	3.2	9
36	Characterization and in Vitro Inhibition Studies of <i>Bacillus anthracis</i> FtsZ: A Potential Antibacterial Target. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3263-3270.	2.9	7

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37	Characteristics of fabricated catalytic combustible micro gas sensor with low power consumption for detecting methane leakage of compressed natural gas bus. <i>Journal of Electroceramics</i> , 2013, 31, 280-285.	2.0	4
38	Biochemical characterization and evaluation of potent inhibitors of the <i>Pseudomonas aeruginosa</i> PA01 acetohydroxyacid synthase. <i>Biochimie</i> , 2013, 95, 1411-1421.	2.6	9
39	Electrical Graphene Aptasensor for Ultra-sensitive Detection of Anthrax Toxin with Amplified Signal Transduction. <i>Small</i> , 2013, 9, 3352-3360.	10.0	63
40	Role of a highly conserved proline-126 in ThDP binding of <i>Mycobacterium tuberculosis</i> acetohydroxyacid synthase. <i>Enzyme and Microbial Technology</i> , 2013, 53, 243-249.	3.2	7
41	Characterization of recombinant FAD-independent catabolic acetolactate synthase from <i>Enterococcus faecalis</i> V583. <i>Enzyme and Microbial Technology</i> , 2013, 52, 54-59.	3.2	8
42	Role of a Highly Conserved and Catalytically Important Glutamate-49 in the <i>Enterococcus faecalis</i> Acetolactate Synthase. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 669-672.	1.9	5
43	Proteolytic assay-based screening identifies a potent inhibitor of anthrax lethal factor. <i>Microbial Pathogenesis</i> , 2012, 53, 109-112.	2.9	7
44	Screening of Peptides Bound to Breast Cancer Stem Cell Specific Surface Marker CD44 by Phage Display. <i>Molecular Biotechnology</i> , 2012, 51, 212-220.	2.4	39
45	Kinetic mechanism of fucose-1-phosphate aldolase from the hyperthermophilic Archaeon <i>Methanococcus jannaschii</i> . <i>Enzyme and Microbial Technology</i> , 2012, 50, 209-214.	3.2	4
46	Bacterial acetohydroxyacid synthase and its inhibitors – a summary of their structure, biological activity and current status. <i>FEBS Journal</i> , 2012, 279, 946-963.	4.7	41
47	Mechanism Studies of Substituted Triazol-1-yl-pyrimidine Derivatives Inhibition on <i>Mycobacterium tuberculosis</i> Acetohydroxyacid Synthase. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 4074-4078.	1.9	1
48	Identification of Potent inhibitors of <i>Bacillus anthracis</i> FtsZ: A target for antimicrobial agents. <i>FASEB Journal</i> , 2012, 26, 962.3.	0.5	0
49	Screening and Characterization of High-Affinity ssDNA Aptamers against Anthrax Protective Antigen. <i>Journal of Biomolecular Screening</i> , 2011, 16, 266-271.	2.6	35
50	Cloning, characterization and evaluation of potent inhibitors of <i>Shigella sonnei</i> acetohydroxyacid synthase catalytic subunit. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1825-1831.	2.3	10
51	Yeast-hybrid based high-throughput assay for identification of anthrax lethal factor inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 517-522.	2.1	3
52	Sensitive fluorescence assay of anthrax protective antigen with two new DNA aptamers and their binding properties. <i>Analyst, The</i> , 2011, 136, 3384.	3.5	15
53	Ultrasensitive Diagnosis for an Anthrax-Protective Antigen Based on a Polyvalent Directed Peptide Polymer Coupled to Zinc Oxide Nanorods. <i>Advanced Materials</i> , 2011, 23, 5425-5429.	21.0	19
54	Sensitive detection of an Anthrax biomarker using a glassy carbon electrode with a consecutively immobilized layer of polyaniline/carbon nanotube/peptide. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4227-4230.	10.1	42

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55	Identification and characterization of inhibitors of Haemophilus influenzae acetohydroxyacid synthase. Enzyme and Microbial Technology, 2011, 49, 1-5.	3.2	9
56	Phage Display Screen for Peptides That Bind Bcl-2 Protein. Journal of Biomolecular Screening, 2011, 16, 82-89.	2.6	9
57	Characterization of Capsicum annuum Recombinant $\hat{1}\pm$ - and $\hat{1}^2$ -Tubulin. Applied Biochemistry and Biotechnology, 2010, 160, 122-128.	2.9	3
58	Use of peptide for selective and sensitive detection of an <i>Anthrax</i> biomarker via peptide recognition and surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2010, 41, 121-124.	2.5	12
59	Evaluation of substituted triazol-1-yl-pyrimidines as inhibitors of Bacillus anthracis acetohydroxyacid synthase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1369-1375.	2.3	9
60	Site-directed mutagenesis of catalytic and regulatory subunits of Mycobacterium tuberculosis acetohydroxyacid synthase. Enzyme and Microbial Technology, 2010, 46, 304-308.	3.2	4
61	Characterization of Acetohydroxyacid Synthase I from<i>Escherichia coli</i>K-12 and Identification of Its Inhibitors. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2281-2286.	1.3	8
62	Structural and functional evaluation of three well-conserved serine residues in tobacco acetohydroxyacid synthase. Biochimie, 2010, 92, 65-70.	2.6	1
63	Recent advances in rapid and ultrasensitive biosensors for infectious agents: lesson from Bacillus anthracis diagnostic sensors. Analyst, The, 2010, 135, 1182.	3.5	34
64	$\hat{1}\pm$ - and $\hat{1}^2$ -tubulin from Phytophthora capsici KACC 40483: molecular cloning, biochemical characterization, and antimicrotubule screening. Applied Microbiology and Biotechnology, 2009, 82, 513-524.	3.6	19
65	Square wave voltammetric detection of Anthrax utilizing a peptide for selective recognition of a protein biomarker. Biosensors and Bioelectronics, 2009, 25, 469-474.	10.1	30
66	Characterization of a extreme thermostable fructose-1,6-bisphosphate aldolase from hyperthermophilic bacterium Aquifex aeolicus. Enzyme and Microbial Technology, 2009, 45, 261-266.	3.2	5
67	Molecular cloning and biochemical characterization of $\hat{1}\pm$ - and $\hat{1}^2$ -tubulin from potato plants (Solanum) Tj ETQq1 1 0,784314 rgBT /Ov	5.8	13
68	Screening for peptides binding on Phytophthora capsici extracts by phage display. Journal of Microbiological Methods, 2009, 78, 54-58.	1.6	12
69	Protective Antigen Detection Using Horizontally Stacked Hexagonal ZnO Platelets. Analytical Chemistry, 2009, 81, 4280-4284.	6.5	38
70	Inhibitors of Bacillus anthracis acetohydroxyacid synthase. Enzyme and Microbial Technology, 2008, 43, 270-275.	3.2	7
71	The effects of anthrax lethal factor on the macrophage proteome: Potential activity on nitric oxide synthases. Archives of Biochemistry and Biophysics, 2008, 472, 58-64.	3.0	9
72	Cloning, Purification, and Polymerization of<i>Capsicum annuum</i>Recombinant $\hat{1}\pm$ and $\hat{1}^2$ Tubulin. Bioscience, Biotechnology and Biochemistry, 2008, 72, 1048-1055.	1.3	12

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73	Identification of the catalytic subunit of acetohydroxyacid synthase in <i>Haemophilus influenzae</i> and its potent inhibitors. <i>Archives of Biochemistry and Biophysics</i> , 2007, 466, 24-30.	3.0	21
74	A new quantitative Raman measurement scheme using Teflon as a novel intensity correction standard as well as the sample container. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 475-482.	2.5	26
75	ANTHRAX LETHAL FACTOR: CRITICAL VIRULENCE FACTOR OF PATHOGENESIS OF ANTHRAX TOXINS. <i>Toxin Reviews</i> , 2006, 25, 109-124.	3.4	5
76	Two consecutive aspartic acid residues conferring herbicide resistance in tobacco acetohydroxy acid synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1749, 103-112.	2.3	16
77	Development of high-throughput assay of lethal factor using native substrate. <i>Analytical Biochemistry</i> , 2005, 341, 33-39.	2.4	9
78	Roles of Three Well-Conserved Arginine Residues in Mediating the Catalytic Activity of Tobacco Acetohydroxy Acid Synthase. <i>Journal of Biochemistry</i> , 2005, 138, 35-40.	1.7	11
79	Characterization of acetohydroxyacid synthase from <i>Mycobacterium tuberculosis</i> and the identification of its new inhibitor from the screening of a chemical library. <i>FEBS Letters</i> , 2005, 579, 4903-4910.	2.8	70
80	Allosterism in the Elementary Steps of the Cytochrome P450 Reaction Cycle. <i>Drug Metabolism Reviews</i> , 2004, 36, 219-230.	3.6	34
81	Implication of pH in the catalytic properties of anthrax lethal factor. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 217-222.	2.1	10
82	Homology modeling of the structure of tobacco acetohydroxy acid synthase and examination of the active site by site-directed mutagenesis. <i>Biochemical and Biophysical Research Communications</i> , 2004, 317, 930-938.	2.1	14
83	Effects of deletions at the C-terminus of tobacco acetohydroxyacid synthase on the enzyme activity and cofactor binding. <i>Biochemical Journal</i> , 2004, 384, 59-68.	3.7	15
84	The active site and mechanism of action of recombinant acetohydroxy acid synthase from tobacco. <i>FEBS Letters</i> , 2003, 555, 185-191.	2.8	8
85	Roles of conserved methionine residues in tobacco acetolactate synthase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 1075-1082.	2.1	13
86	Production and proteolytic assay of lethal factor from <i>Bacillus anthracis</i> . <i>Protein Expression and Purification</i> , 2003, 30, 293-300.	1.3	17
87	Roles of lysine 219 and 255 residues in tobacco acetolactate synthase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 433-439.	2.1	22
88	Roles of Histidine Residues in Tobacco Acetolactate Synthase. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 1237-1243.	2.1	22
89	Cysteine 42 Is Important for Maintaining an Integral Active Site for O-Acetylserine Sulfhydrylase Resulting in the Stabilization of the δ -Aminoacrylate Intermediate. <i>Biochemistry</i> , 1998, 37, 10597-10604.	2.5	19
90	Pretreatment of low dose radiation reduces radiation-induced apoptosis in mouse lymphoma (EL4) cells. <i>Archives of Pharmacal Research</i> , 1997, 20, 212-217.	6.3	8