Moon-Young Yoon

List of Publications by Year
in descending order

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90 papers	1,642 citations	279487 23 h-index	377514 34 g-index
93 all docs	93 docs citations	93 times ranked	2196 citing authors

#	Article	IF	Citations
1	Ultra-sensitive detection of kanamycin for food safety using a reduced graphene oxide-based fluorescent aptasensor. Scientific Reports, 2017, 7, 40305.	1.6	75
2	Characterization of acetohydroxyacid synthase fromMycobacterium tuberculosisand the identification of its new inhibitor from the screening of a chemical library. FEBS Letters, 2005, 579, 4903-4910.	1.3	70
3	Electrical Graphene Aptasensor for Ultraâ€Sensitive Detection of Anthrax Toxin with Amplified Signal Transduction. Small, 2013, 9, 3352-3360.	5.2	63
4	Development of a novel imaging agent using peptide-coated gold nanoparticles toward brain glioma stem cell marker CD133. Acta Biomaterialia, 2017, 47, 182-192.	4.1	55
5	Synthesis, crystal structure and biological evaluation of substituted quinazolinone benzoates as novel antituberculosis agents targeting acetohydroxyacid synthase. European Journal of Medicinal Chemistry, 2015, 94, 298-305.	2.6	52
6	Development of ssDNA Aptamers for the Sensitive Detection of Salmonella typhimurium and Salmonella enteritidis. Applied Biochemistry and Biotechnology, 2014, 174, 793-802.	1.4	47
7	Paper chip-based colorimetric sensing assay for ultra-sensitive detection of residual kanamycin. Process Biochemistry, 2017, 62, 161-168.	1.8	43
8	Sensitive detection of an Anthrax biomarker using a glassy carbon electrode with a consecutively immobilized layer of polyaniline/carbon nanotube/peptide. Biosensors and Bioelectronics, 2011, 26, 4227-4230.	5.3	42
9	Bacterial acetohydroxyacid synthase and its inhibitors â€“ a summary of their structure, biological activity and current status. FEBS Journal, 2012, 279, 946-963.	2.2	41
10	Screening of Peptides Bound to Breast Cancer Stem Cell Specific Surface Marker CD44 by Phage Display. Molecular Biotechnology, 2012, 51, 212-220.	1.3	39
11	Protective Antigen Detection Using Horizontally Stacked Hexagonal ZnO Platelets. Analytical Chemistry, 2009, 81, 4280-4284.	3.2	38
12	Advances in Anthrax Detection: Overview of Bioprobes and Biosensors. Applied Biochemistry and Biotechnology, 2015, 176, 957-977.	1.4	37
13	Development of quantum dot aptasensor and its portable analyzer for the detection of di-2-ethylhexyl phthalate. Biosensors and Bioelectronics, 2018, 121, 1-9.	5.3	37
14	Development of a ssDNA aptamer for detection of residual benzylpenicillin. Analytical Biochemistry, 2017, 531, 1-7.	1.1	36
15	Screening and Characterization of High-Affinity ssDNA Aptamers against Anthrax Protective Antigen. Journal of Biomolecular Screening, 2011, 16, 266-271.	2.6	35
16	Development of ssDNA aptamers as potent inhibitors of Mycobacterium tuberculosis acetohydroxyacid synthase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1338-1350.	1.1	35
17	â€œAllosterismâ€•in the Elementary Steps of the Cytochrome P450 Reaction Cycle. Drug Metabolism Reviews, 2004, 36, 219-230.	1.5	34
18	Recent advances in rapid and ultrasensitive biosensors for infectious agents: lesson from Bacillus anthracis diagnostic sensors. Analyst, The, 2010, 135, 1182.	1.7	34

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19	Neural stem cells injured by oxidative stress can be rejuvenated by GV1001, a novel peptide, through scavenging free radicals and enhancing survival signals. NeuroToxicology, 2016, 55, 131-141.	1.4	34
20	Square wave voltammetric detection of Anthrax utilizing a peptide for selective recognition of a protein biomarker. Biosensors and Bioelectronics, 2009, 25, 469-474.	5.3	30
21	Ultrasensitive Fluorescence Detection of Alzheimerâ€™s Disease Based on Polyvalent Directed Peptide Polymer Coupled to a Nanoporous ZnO Nanoplatform. Analytical Chemistry, 2019, 91, 5573-5581.	3.2	30
22	Neuroprotective Effects of Acetyl-L-Carnitine Against Oxygen-Glucose Deprivation-Induced Neural Stem Cell Death. Molecular Neurobiology, 2016, 53, 6644-6652.	1.9	28
23	A new quantitative Raman measurement scheme using Teflon as a novel intensity correction standard as well as the sample container. Journal of Raman Spectroscopy, 2007, 38, 475-482.	1.2	26
24	Roles of Histidine Residues in Tobacco Acetolactate Synthase. Biochemical and Biophysical Research Communications, 2001, 282, 1237-1243.	1.0	22
25	Roles of lysine 219 and 255 residues in tobacco acetolactate synthase. Biochemical and Biophysical Research Communications, 2002, 293, 433-439.	1.0	22
26	Identification of the catalytic subunit of acetohydroxyacid synthase in Haemophilus influenzae and its potent inhibitors. Archives of Biochemistry and Biophysics, 2007, 466, 24-30.	1.4	21
27	Cysteine 42 Is Important for Maintaining an Integral Active Site forO-Acetylserine Sulfhydrylase Resulting in the Stabilization of the Î±-Aminoacrylate Intermediateâ€. Biochemistry, 1998, 37, 10597-10604.	1.2	19
28	Î±- and Î²-tubulin from Phytophthora capsici KACC 40483: molecular cloning, biochemical characterization, and antimicrotubule screening. Applied Microbiology and Biotechnology, 2009, 82, 513-524.	1.7	19
29	Ultrasensitive Diagnosis for an Anthraxâ€Protective Antigen Based on a Polyvalent Directed Peptide Polymer Coupled to Zinc Oxide Nanorods. Advanced Materials, 2011, 23, 5425-5429.	11.1	19
30	Sensitive fluorescent imaging of Salmonella enteritidis and Salmonella typhimurium using a polyvalent directed peptide polymer. Mikrochimica Acta, 2017, 184, 2611-2620.	2.5	19
31	Production and proteolytic assay of lethal factor from Bacillus anthracis. Protein Expression and Purification, 2003, 30, 293-300.	0.6	17
32	Development of potent chemical antituberculosis agents targeting Mycobacterium tuberculosis acetohydroxyacid synthase. International Journal of Antimicrobial Agents, 2016, 48, 247-258.	1.1	17
33	Two consecutive aspartic acid residues conferring herbicide resistance in tobacco acetohydroxy acid synthase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1749, 103-112.	1.1	16
34	Inhibition of anthrax lethal factor by ssDNA aptamers. Archives of Biochemistry and Biophysics, 2018, 646, 16-23.	1.4	16
35	Effects of deletions at the C-terminus of tobacco acetohydroxyacid synthase on the enzyme activity and cofactor binding. Biochemical Journal, 2004, 384, 59-68.	1.7	15
36	Sensitive fluorescence assay of anthrax protective antigen with two new DNA aptamers and their binding properties. Analyst, The, 2011, 136, 3384.	1.7	15

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37	A novel peptide-based recognition probe for the sensitive detection ofÂCD44 on breast cancer stem cells. Molecular and Cellular Probes, 2015, 29, 492-499.	0.9	15
38	Advances in dermatology using DNA aptamer â€œAptamin Câ€•innovation: Oxidative stress prevention and effect maximization of vitamin C through antioxidation. Journal of Cosmetic Dermatology, 2020, 19, 970-976.	0.8	15
39	Detection of Nonylphenol with a Gold-Nanoparticle-Based Small-Molecule Sensing System Using an ssDNA Aptamer. International Journal of Molecular Sciences, 2020, 21, 208.	1.8	15
40	Homology modeling of the structure of tobacco acetohydroxy acid synthase and examination of the active site by site-directed mutagenesis. Biochemical and Biophysical Research Communications, 2004, 317, 930-938.	1.0	14
41	Mutation analysis of the interactions between Mycobacterium tuberculosis caseinolytic protease C1 (ClpC1) and ecumicin. International Journal of Biological Macromolecules, 2017, 101, 348-357.	3.6	14
42	Roles of conserved methionine residues in tobacco acetolactate synthase. Biochemical and Biophysical Research Communications, 2003, 306, 1075-1082.	1.0	13
43	Molecular cloning and biochemical characterization of Î±- and Î²-tubulin from potato plants (Solanum) Tj ETQq1 1 0.784314 rgBT /Ov	2.8	13
44	Use of Multiple Peptide-Based SERS Probes Binding to Different Epitopes on a Protein Biomarker To Improve Detection Sensitivity. Analytical Chemistry, 2016, 88, 3465-3470.	3.2	13
45	Cloning, Purification, and Polymerization ofCapsicum annuumRecombinant Î± and Î² Tubulin. Bioscience, Biotechnology and Biochemistry, 2008, 72, 1048-1055.	0.6	12
46	Screening for peptides binding on Phytophthora capsici extracts by phage display. Journal of Microbiological Methods, 2009, 78, 54-58.	0.7	12
47	Use of peptide for selective and sensitive detection of an Anthrax biomarker via peptide recognition and surfaceâ€enhanced Raman scattering. Journal of Raman Spectroscopy, 2010, 41, 121-124.	1.2	12
48	Development of peptide aptamers as alternatives for antibody in the detection of amyloid-beta 42 aggregates. Analytical Biochemistry, 2020, 609, 113921.	1.1	12
49	Development of ssDNA Aptamers for Diagnosis and Inhibition of the Highly Pathogenic Avian Influenza Virus Subtype H5N1. Biomolecules, 2020, 10, 1116.	1.8	12
50	Roles of Three Well-Conserved Arginine Residues in Mediating the Catalytic Activity of Tobacco Acetohydroxy Acid Synthase. Journal of Biochemistry, 2005, 138, 35-40.	0.9	11
51	Development of receptor-based inhibitory RNA aptamers for anthrax toxin neutralization. International Journal of Biological Macromolecules, 2015, 77, 293-302.	3.6	11
52	Development of a ssDNA aptamer system with reduced graphene oxide (rGO) to detect nonylphenol ethoxylate in domestic detergent. Journal of Molecular Recognition, 2019, 32, e2764.	1.1	11
53	Implication of pH in the catalytic properties of anthrax lethal factor. Biochemical and Biophysical Research Communications, 2004, 313, 217-222.	1.0	10
54	Cloning, characterization and evaluation of potent inhibitors of Shigella sonnei acetohydroxyacid synthase catalytic subunit. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1825-1831.	1.1	10

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55	Development of high-throughput assay of lethal factor using native substrate. Analytical Biochemistry, 2005, 341, 33-39.	1.1	9
56	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.	1.4	9
57	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.	1.1	9
58	Identification and characterization of inhibitors of Haemophilus influenzae acetohydroxyacid synthase. Enzyme and Microbial Technology, 2011, 49, 1-5.	1.6	9
59	Phage Display Screen for Peptides That Bind Bcl-2 Protein. Journal of Biomolecular Screening, 2011, 16, 82-89.	2.6	9
60	Biochemical characterization and evaluation of potent inhibitors of the Pseudomonas aeruginosa PA01 acetohydroxyacid synthase. Biochimie, 2013, 95, 1411-1421.	1.3	9
61	Structural and functional significance of the highly-conserved residues in Mycobacterium tuberculosis acetohydroxyacid synthase. Enzyme and Microbial Technology, 2014, 58-59, 52-59.	1.6	9
62	Pretreatment of low dose radiation reduces radiation-induced apoptosis in mouse lymphoma (EL4) cells. Archives of Pharmacal Research, 1997, 20, 212-217.	2.7	8
63	The active site and mechanism of action of recombinant acetohydroxy acid synthase from tobacco. FEBS Letters, 2003, 555, 185-191.	1.3	8
64	Characterization of Acetohydroxyacid Synthase I fromEscherichia coliK-12 and Identification of Its Inhibitors. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2281-2286.	0.6	8
65	Characterization of recombinant FAD-independent catabolic acetolactate synthase from Enterococcus faecalis V583. Enzyme and Microbial Technology, 2013, 52, 54-59.	1.6	8
66	Functional evaluation of residues in the herbicide-binding site of Mycobacterium tuberculosis acetohydroxyacid synthase by site-directed mutagenesis. Enzyme and Microbial Technology, 2015, 78, 18-26.	1.6	8
67	Development of inhibitory ssDNA aptamers for the FtsZ cell division protein from citrus canker phytopathogen. Process Biochemistry, 2016, 51, 24-33.	1.8	8
68	Inhibitors of Bacillus anthracis acetohydroxyacid synthase. Enzyme and Microbial Technology, 2008, 43, 270-275.	1.6	7
69	Proteolytic assay-based screening identifies a potent inhibitor of anthrax lethal factor. Microbial Pathogenesis, 2012, 53, 109-112.	1.3	7
70	Role of a highly conserved proline-126 in ThDP binding of Mycobacterium tuberculosis acetohydroxyacid synthase. Enzyme and Microbial Technology, 2013, 53, 243-249.	1.6	7
71	Characterization and in Vitro Inhibition Studies of Bacillus anthracis FtsZ: A Potential Antibacterial Target. Applied Biochemistry and Biotechnology, 2014, 172, 3263-3270.	1.4	7
72	Feasibility of asymmetrical flow field-flow fractionation as a method for detecting protective antigen by direct recognition of size-increased target-captured nanoprobes. Journal of Chromatography A, 2015, 1422, 239-246.	1.8	7

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73	Optical Sensing Properties of ZnO Nanoparticles Prepared by Spray Pyrolysis. Journal of Nanoscience and Nanotechnology, 2019, 19, 1048-1051.	0.9	7
74	Novel Peptide-Based Inhibitors for Microtubule Polymerization in Phytophthora capsici. International Journal of Molecular Sciences, 2019, 20, 2641.	1.8	7
75	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). Biosensors, 2020, 10, 141.	2.3	7
76	Mutational analysis of critical residues of FAD-independent catabolic acetolactate synthase from Enterococcus faecalis V583. International Journal of Biological Macromolecules, 2015, 72, 104-109.	3.6	6
77	ANTHRAX LETHAL FACTOR: CRITICAL VIRULENCE FACTOR OF PATHOGENESIS OF ANTHRAX TOXINS. Toxin Reviews, 2006, 25, 109-124.	1.5	5
78	Characterization of a extreme thermostable fructose-1,6-bisphosphate aldolase from hyperthermophilic bacterium Aquifex aeolicus. Enzyme and Microbial Technology, 2009, 45, 261-266.	1.6	5
79	Role of a Highly Conserved and Catalytically Important Glutamate-49 in the Enterococcus faecalis Acetolactate Synthase. Bulletin of the Korean Chemical Society, 2013, 34, 669-672.	1.0	5
80	Development of a Low-Molecular-Weight AÎ²42 Detection System Using a Enzyme-Linked Peptide Assay. Biomolecules, 2021, 11, 1818.	1.8	5
81	Site-directed mutagenesis of catalytic and regulatory subunits of Mycobacterium tuberculosis acetohydroxyacid synthase. Enzyme and Microbial Technology, 2010, 46, 304-308.	1.6	4
82	Kinetic mechanism of fuculose-1-phosphate aldolase from the hyperthermophilic Archaeon Methanococcus jannaschii. Enzyme and Microbial Technology, 2012, 50, 209-214.	1.6	4
83	Characteristics of fabricated catalytic combustible micro gas sensor with low power consumption for detecting methane leakage of compressed natural gas bus. Journal of Electroceramics, 2013, 31, 280-285.	0.8	4
84	Characterization of Capsicum annuum Recombinant Î±- and Î²-Tubulin. Applied Biochemistry and Biotechnology, 2010, 160, 122-128.	1.4	3
85	Yeast-hybrid based high-throughput assay for identification of anthrax lethal factor inhibitors. Biochemical and Biophysical Research Communications, 2011, 404, 517-522.	1.0	3
86	Design of a PKCÎ´-specific small peptide as a theragnostic agent for glioblastoma. Analytical Biochemistry, 2016, 496, 63-70.	1.1	3
87	Development of a receptor-based inhibitory penta-unit-conjugated peptide to enhance anthrax toxin neutralization. International Journal of Biological Macromolecules, 2020, 163, 327-335.	3.6	2
88	Structural and functional evaluation of three well-conserved serine residues in tobacco acetohydroxyacid synthase. Biochimie, 2010, 92, 65-70.	1.3	1
89	Mechanism Studies of Substituted Triazol-1-yl-pyrimidine Derivatives Inhibition on Mycobacterium tuberculosis Acetohydroxyacid Synthase. Bulletin of the Korean Chemical Society, 2012, 33, 4074-4078.	1.0	1
90	Identification of Potent inhibitors of Bacillus anthracis FtsZ: A target for antimicrobial agents. FASEB Journal, 2012, 26, 962.3.	0.2	0