

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

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. <i>Scientific Reports</i> , 2017, 7, 40305. | 3.3 | 75 |
| 2 | 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 |
| 3 | Electrical Graphene Aptasensor for Ultra-sensitive Detection of Anthrax Toxin with Amplified Signal Transduction. <i>Small</i> , 2013, 9, 3352-3360. | 10.0 | 63 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Paper chip-based colorimetric sensing assay for ultra-sensitive detection of residual kanamycin. <i>Process Biochemistry</i> , 2017, 62, 161-168. | 3.7 | 43 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Protective Antigen Detection Using Horizontally Stacked Hexagonal ZnO Platelets. <i>Analytical Chemistry</i> , 2009, 81, 4280-4284. | 6.5 | 38 |
| 12 | Advances in Anthrax Detection: Overview of Bioprobes and Biosensors. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 957-977. | 2.9 | 37 |
| 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 | Development of a ssDNA aptamer for detection of residual benzylpenicillin. <i>Analytical Biochemistry</i> , 2017, 531, 1-7. | 2.4 | 36 |
| 15 | 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 |
| 16 | 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 |
| 17 | Allosterism in the Elementary Steps of the Cytochrome P450 Reaction Cycle. <i>Drug Metabolism Reviews</i> , 2004, 36, 219-230. | 3.6 | 34 |
| 18 | Recent advances in rapid and ultrasensitive biosensors for infectious agents: lesson from <i>Bacillus anthracis</i> diagnostic sensors. <i>Analyst</i> , The, 2010, 135, 1182. | 3.5 | 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. <i>NeuroToxicology</i> , 2016, 55, 131-141. | 3.0 | 34 |
| 20 | Square wave voltammetric detection of Anthrax utilizing a peptide for selective recognition of a protein biomarker. <i>Biosensors and Bioelectronics</i> , 2009, 25, 469-474. | 10.1 | 30 |
| 21 | Ultrasensitive Fluorescence Detection of Alzheimer's Disease Based on Polyvalent Directed Peptide Polymer Coupled to a Nanoporous ZnO Nanoplatfom. <i>Analytical Chemistry</i> , 2019, 91, 5573-5581. | 6.5 | 30 |
| 22 | 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 |
| 23 | 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 |
| 24 | Roles of Histidine Residues in Tobacco Acetolactate Synthase. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 1237-1243. | 2.1 | 22 |
| 25 | 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 |
| 26 | 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 |
| 27 | Cysteine 42 Is Important for Maintaining an Integral Active Site for O-Acetylserine Sulfhydrylase Resulting in the Stabilization of the β -Aminoacrylate Intermediate. <i>Biochemistry</i> , 1998, 37, 10597-10604. | 2.5 | 19 |
| 28 | β - and γ -tubulin from <i>Phytophthora capsici</i> KACC 40483: molecular cloning, biochemical characterization, and antimicrotubule screening. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 513-524. | 3.6 | 19 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Inhibition of anthrax lethal factor by ssDNA aptamers. <i>Archives of Biochemistry and Biophysics</i> , 2018, 646, 16-23. | 3.0 | 16 |
| 35 | 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 |
| 36 | Sensitive fluorescence assay of anthrax protective antigen with two new DNA aptamers and their binding properties. <i>Analyst</i> , 2011, 136, 3384. | 3.5 | 15 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Advances in dermatology using DNA aptamer α -Aptamin α -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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Roles of conserved methionine residues in tobacco acetolactate synthase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 1075-1082. | 2.1 | 13 |
| 43 | Molecular cloning and biochemical characterization of α - and β -tubulin from potato plants (<i>Solanum tuberosum</i>) Tj ETQq1 1 0,784314 rCBT /Over | 5.8 | 13 |
| 44 | 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 |
| 45 | Cloning, Purification, and Polymerization of <i>Capsicum annuum</i> Recombinant α and β Tubulin. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 1048-1055. | 1.3 | 12 |
| 46 | Screening for peptides binding on <i>Phytophthora capsici</i> extracts by phage display. <i>Journal of Microbiological Methods</i> , 2009, 78, 54-58. | 1.6 | 12 |
| 47 | Use of peptide for selective and sensitive detection of an <i>Anthrax</i> biomarker via peptide recognition and surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 121-124. | 2.5 | 12 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Development of high-throughput assay of lethal factor using native substrate. <i>Analytical Biochemistry</i> , 2005, 341, 33-39. | 2.4 | 9 |
| 56 | The effects of anthrax lethal factor on the macrophage proteome: Potential activity on nitric oxide synthases. <i>Archives of Biochemistry and Biophysics</i> , 2008, 472, 58-64. | 3.0 | 9 |
| 57 | Evaluation of substituted triazol-1-yl-pyrimidines as inhibitors of <i>Bacillus anthracis</i> acetohydroxyacid synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1369-1375. | 2.3 | 9 |
| 58 | Identification and characterization of inhibitors of <i>Haemophilus influenzae</i> acetohydroxyacid synthase. <i>Enzyme and Microbial Technology</i> , 2011, 49, 1-5. | 3.2 | 9 |
| 59 | Phage Display Screen for Peptides That Bind Bcl-2 Protein. <i>Journal of Biomolecular Screening</i> , 2011, 16, 82-89. | 2.6 | 9 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Characterization of Acetohydroxyacid Synthase I from <i>Escherichia coli</i> K-12 and Identification of Its Inhibitors. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2281-2286. | 1.3 | 8 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | Inhibitors of <i>Bacillus anthracis</i> acetohydroxyacid synthase. <i>Enzyme and Microbial Technology</i> , 2008, 43, 270-275. | 3.2 | 7 |
| 69 | Proteolytic assay-based screening identifies a potent inhibitor of anthrax lethal factor. <i>Microbial Pathogenesis</i> , 2012, 53, 109-112. | 2.9 | 7 |
| 70 | 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 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | Optical Sensing Properties of ZnO Nanoparticles Prepared by Spray Pyrolysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1048-1051. | 0.9 | 7 |
| 74 | 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 |
| 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). <i>Biosensors</i> , 2020, 10, 141. | 4.7 | 7 |
| 76 | 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 |
| 77 | ANTHRAX LETHAL FACTOR: CRITICAL VIRULENCE FACTOR OF PATHOGENESIS OF ANTHRAX TOXINS. <i>Toxin Reviews</i> , 2006, 25, 109-124. | 3.4 | 5 |
| 78 | Characterization of a extreme thermostable fructose-1,6-bisphosphate aldolase from hyperthermophilic bacterium <i>Aquifex aeolicus</i> . <i>Enzyme and Microbial Technology</i> , 2009, 45, 261-266. | 3.2 | 5 |
| 79 | 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 |
| 80 | Development of a Low-Molecular-Weight β -Galactosidase Detection System Using a Enzyme-Linked Peptide Assay. <i>Biomolecules</i> , 2021, 11, 1818. | 4.0 | 5 |
| 81 | Site-directed mutagenesis of catalytic and regulatory subunits of <i>Mycobacterium tuberculosis</i> acetohydroxyacid synthase. <i>Enzyme and Microbial Technology</i> , 2010, 46, 304-308. | 3.2 | 4 |
| 82 | Kinetic mechanism of fuculose-1-phosphate aldolase from the hyperthermophilic Archaeon <i>Methanococcus jannaschii</i> . <i>Enzyme and Microbial Technology</i> , 2012, 50, 209-214. | 3.2 | 4 |
| 83 | 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 |
| 84 | Characterization of <i>Capsicum annuum</i> Recombinant α - and β -Tubulin. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 122-128. | 2.9 | 3 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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 |
| 88 | Structural and functional evaluation of three well-conserved serine residues in tobacco acetohydroxyacid synthase. <i>Biochimie</i> , 2010, 92, 65-70. | 2.6 | 1 |
| 89 | 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 |
| 90 | 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 |