

# Wooseong Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

2,382  
citations

236925

25  
h-index

233421

45  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3330  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new class of synthetic retinoid antibiotics effective against bacterial persisters. <i>Nature</i> , 2018, 556, 103-107.	27.8	307
2	Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges. <i>Science of the Total Environment</i> , 2021, 751, 141599.	8.0	177
3	Spaceflight Promotes Biofilm Formation by <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2013, 8, e62437.	2.5	153
4	Repurposing Salicylanilide Anthelmintic Drugs to Combat Drug Resistant <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2015, 10, e0124595.	2.5	123
5	A selective membrane-targeting repurposed antibiotic with activity against persistent methicillin-resistant <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16529-16534.	7.1	117
6	Enzyme/pH dual sensitive polymeric nanoparticles for targeted drug delivery to the inflamed colon. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 271-278.	5.0	70
7	Colon-targeted dexamethasone microcrystals with pH-sensitive chitosan/alginate/Eudragit S multilayers for the treatment of inflammatory bowel disease. <i>Carbohydrate Polymers</i> , 2018, 198, 434-442.	10.2	62
8	Effect of spaceflight on <i>Pseudomonas aeruginosa</i> final cell density is modulated by nutrient and oxygen availability. <i>BMC Microbiology</i> , 2013, 13, 241.	3.3	59
9	Enhanced isobutanol production from acetate by combinatorial overexpression of acetyl-CoA synthetase and anaplerotic enzymes in engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1971-1978.	3.3	58
10	NdgR, an IclR-like regulator involved in amino-acid-dependent growth, quorum sensing, and antibiotic production in <i>Streptomyces coelicolor</i> . <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 501-511.	3.6	57
11	Identification of an Antimicrobial Agent Effective against Methicillin-Resistant <i>Staphylococcus aureus</i> Persisters Using a Fluorescence-Based Screening Strategy. <i>PLoS ONE</i> , 2015, 10, e0127640.	2.5	57
12	Synergistic Efficacy of <i>Aedes aegypti</i> Antimicrobial Peptide Cecropin A2 and Tetracycline against <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	56
13	Mass spectrometric screening of transcriptional regulators involved in antibiotic biosynthesis in <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 1073-1083.	3.0	53
14	Caffeic acid phenethyl ester activation of Nrf2 pathway is enhanced under oxidative state: Structural analysis and potential as a pathologically targeted therapeutic agent in treatment of colonic inflammation. <i>Free Radical Biology and Medicine</i> , 2013, 65, 552-562.	2.9	47
15	Antimicrobial activity of 1,3,4-oxadiazole derivatives against planktonic cells and biofilm of <i>Staphylococcus aureus</i> . <i>Future Medicinal Chemistry</i> , 2018, 10, 283-296.	2.3	46
16	Increase in furfural tolerance by combinatorial overexpression of NAD salvage pathway enzymes in engineered isobutanol-producing <i>E. coli</i> . <i>Bioresource Technology</i> , 2017, 245, 1430-1435.	9.6	40
17	NH125 kills methicillin-resistant <i>Staphylococcus aureus</i> persisters by lipid bilayer disruption. <i>Future Medicinal Chemistry</i> , 2016, 8, 257-269.	2.3	36
18	An update on the use of <i>C. elegans</i> for preclinical drug discovery: screening and identifying anti-infective drugs. <i>Expert Opinion on Drug Discovery</i> , 2017, 12, 625-633.	5.0	34

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19	Minoxidil Induction of VEGF Is Mediated by Inhibition of HIF-Prolyl Hydroxylase. <i>International Journal of Molecular Sciences</i> , 2018, 19, 53.	4.1	34
20	Enhanced isobutanol production from acetate by combinatorial overexpression of acetyl-CoA synthetase and anaplerotic enzymes in engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1971.	3.3	34
21	Discovery and Optimization of nTZDpa as an Antibiotic Effective Against Bacterial Persisters. <i>ACS Infectious Diseases</i> , 2018, 4, 1540-1545.	3.8	33
22	A Defensin from the Model Beetle <i>Tribolium castaneum</i> Acts Synergistically with Telavancin and Daptomycin against Multidrug Resistant <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2015, 10, e0128576.	2.5	32
23	Strategies against methicillin-resistant <i>Staphylococcus aureus</i> persisters. <i>Future Medicinal Chemistry</i> , 2018, 10, 779-794.	2.3	31
24	Production of itaconate by whole-cell bioconversion of citrate mediated by expression of multiple cis-aconitate decarboxylase ( <i>cadA</i> ) genes in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2017, 7, 39768.	3.3	30
25	Phospholipase D activates HIF-1-VEGF pathway via phosphatidic acid. <i>Experimental and Molecular Medicine</i> , 2014, 46, e126-e126.	7.7	29
26	Antibacterial Properties of Four Novel Hit Compounds from a Methicillin-Resistant <i>Staphylococcus aureus</i> – <i>Caenorhabditis elegans</i> High-Throughput Screen. <i>Microbial Drug Resistance</i> , 2018, 24, 666-674.	2.0	25
27	Oxidized 5-aminosalicylic acid activates Nrf2-HO-1 pathway by covalently binding to Keap1: Implication in anti-inflammatory actions of 5-aminosalicylic acid. <i>Free Radical Biology and Medicine</i> , 2017, 108, 715-724.	2.9	24
28	A novel function of <i>Streptomyces</i> integration host factor (slHF) in the control of antibiotic production and sporulation in <i>Streptomyces coelicolor</i> . <i>Antonie Van Leeuwenhoek</i> , 2012, 101, 479-492.	1.7	23
29	The Neutrally Charged Diarylurea Compound PQ401 Kills Antibiotic-Resistant and Antibiotic-Tolerant <i>Staphylococcus aureus</i> . <i>MBio</i> , 2020, 11, .	4.1	23
30	Is it worth expending energy to convert biliverdin into bilirubin?. <i>Free Radical Biology and Medicine</i> , 2018, 124, 232-240.	2.9	22
31	Characterization of a <i>Francisella tularensis</i> - <i>Caenorhabditis elegans</i> Pathosystem for the Evaluation of Therapeutic Compounds. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	21
32	Finding of novel polyhydroxybutyrate producer <i>Loktanella</i> sp. SM43 capable of balanced utilization of glucose and xylose from lignocellulosic biomass. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 809-818.	7.5	21
33	Butyrate-based n-butanol production from an engineered <i>Shewanella oneidensis</i> MR-1. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1195-1204.	3.4	20
34	Characterization of a new ScbR-like $\beta$ -butyrolactone binding regulator (SlbR) in <i>Streptomyces coelicolor</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 113-121.	3.6	19
35	Auranofin is an effective agent against clinical isolates of <i>Staphylococcus aureus</i> . <i>Future Medicinal Chemistry</i> , 2019, 11, 1417-1425.	2.3	18
36	Sofalcone, a gastroprotective drug, covalently binds to KEAP1 to activate Nrf2 resulting in anti-colitic activity. <i>European Journal of Pharmacology</i> , 2019, 865, 172722.	3.5	17

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37	HIF-prolyl hydroxylase is a potential molecular target for esculetin-mediated anti-colitic effects. <i>FÅ-toterapÅ-Åç</i> , 2015, 103, 55-62.	2.2	16
38	Mesalazine Activates Adenosine Monophosphate-activated Protein Kinase: Implication in the Anti-inflammatory Activity of this Anti-colitic Drug. <i>Current Molecular Pharmacology</i> , 2019, 12, 272-280.	1.5	16
39	Production of L-Theanine Using <i>Escherichia coli</i> Whole-Cell Overexpressing $\beta$ -Glutamylmethylamide Synthetase with Baker's Yeast. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 785-792.	2.1	16
40	5-Aminosalicylic Acid Azo-Linked to Procainamide Acts as an Anticolitic Mutual Prodrug via Additive Inhibition of Nuclear Factor kappaB. <i>Molecular Pharmaceutics</i> , 2016, 13, 2126-2135.	4.6	15
41	Topical niclosamide (ATx201) reduces <i>Staphylococcus aureus</i> colonization and increases Shannon diversity of the skin microbiome in atopic dermatitis patients in a randomized, double-blind, placebo-controlled Phase 2 trial. <i>Clinical and Translational Medicine</i> , 2022, 12, e790.	4.0	15
42	Antibacterial properties of 3-(phenylsulfonyl)-2-pyrazinecarbonitrile. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5203-5207.	2.2	14
43	Lipophilic modification enhances anti-colitic properties of rosmarinic acid by potentiating its HIF-prolyl hydroxylases inhibitory activity. <i>European Journal of Pharmacology</i> , 2015, 747, 114-122.	3.5	14
44	5-Aminosalicylic Acid Azo-Coupled with a GPR109A Agonist Is a Colon-Targeted Anticolitic Codrug with a Reduced Risk of Skin Toxicity. <i>Molecular Pharmaceutics</i> , 2020, 17, 167-179.	4.6	14
45	Influence of subinhibitory concentrations of NH125 on biofilm formation & virulence factors of <i>Staphylococcus aureus</i> . <i>Future Medicinal Chemistry</i> , 2018, 10, 1319-1331.	2.3	13
46	<i>Caenorhabditis elegans</i> mounts a p38MAPK pathway-mediated defence to <i>Cutibacterium acnes</i> infection. <i>Cellular Microbiology</i> , 2020, 22, e13234.	2.1	13
47	Conjugation of metronidazole with dextran: a potential pharmaceutical strategy to control colonic distribution of the anti-amebic drug susceptible to metabolism by colonic microbes. <i>Drug Design, Development and Therapy</i> , 2017, Volume11, 419-429.	4.3	12
48	Structure-Activity Relationship and Anticancer Profile of Second-Generation Anti-MRSA Synthetic Retinoids. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 393-397.	2.8	12
49	Combination Therapy Using Low-Concentration Oxacillin with Palmitic Acid and Span85 to Control Clinical Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antibiotics</i> , 2020, 9, 682.	3.7	12
50	Therapeutic switching of sulpiride, an anti-psychotic and prokinetic drug, to an anti-colitic drug using colon-specific drug delivery. <i>Drug Delivery and Translational Research</i> , 2019, 9, 334-343.	5.8	11
51	Repurposing Kinase Inhibitor Bay 11-7085 to Combat <i>Staphylococcus aureus</i> and <i>Candida albicans</i> Biofilms. <i>Frontiers in Pharmacology</i> , 2021, 12, 675300.	3.5	11
52	Colonic delivery of celecoxib is a potential pharmaceutical strategy for repositioning the selective COX-2 inhibitor as an anti-colitic agent. <i>Archives of Pharmacal Research</i> , 2015, 38, 1830-1838.	6.3	10
53	Colon-Targeted Delivery Facilitates the Therapeutic Switching of Sofalcone, a Gastroprotective Agent, to an Anticolitic Drug via Nrf2 Activation. <i>Molecular Pharmaceutics</i> , 2019, 16, 4007-4016.	4.6	10
54	New Antimicrobial Bioactivity against Multidrug-Resistant Gram-Positive Bacteria of Kinase Inhibitor IMD0354. <i>Antibiotics</i> , 2020, 9, 665.	3.7	10

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55	Anti-MRSA agent discovery using <i>Caenorhabditis elegans</i> -based high-throughput screening. <i>Journal of Microbiology</i> , 2020, 58, 431-444.	2.8	10
56	Increased Antibiotic Resistance of Methicillin-Resistant <i>Staphylococcus aureus</i> USA300 $\beta$ Mutants and a Complementation Study of $\beta$ Mutants Using Synthetic Phenol-Soluble Modulins. <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 115-122.	2.1	10
57	Raf-kinase inhibitor CW5074 shows antibacterial activity against methicillin-resistant <i>Staphylococcus aureus</i> and potentiates the activity of gentamicin. <i>Future Medicinal Chemistry</i> , 2016, 8, 1941-1952.	2.3	9
58	Phenol-Soluble Modulins-Mediated Aggregation of Community-Associated Methicillin-Resistant <i>Staphylococcus Aureus</i> in Human Cerebrospinal Fluid. <i>Cells</i> , 2020, 9, 788.	4.1	9
59	Comparative Study of the Difference in Behavior of the Accessory Gene Regulator ( <i>Agr</i> ) in USA300 and USA400 Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> (CA-MRSA). <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 1060-1068.	2.1	9
60	Dextran-5-(4-ethoxycarbonylphenylazo)salicylic acid ester, a polymeric colon-specific prodrug releasing 5-aminosalicylic acid and benzocaine, ameliorates TNBS-induced rat colitis. <i>Journal of Drug Targeting</i> , 2016, 24, 468-474.	4.4	8
61	In the Model Host <i>Caenorhabditis elegans</i> , Sphingosine-1-Phosphate-Mediated Signaling Increases Immunity toward Human Opportunistic Bacteria. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7813.	4.1	8
62	Colon-targeted delivery of piceatannol enhances anti-colitic effects of the natural product: potential molecular mechanisms for therapeutic enhancement. <i>Drug Design, Development and Therapy</i> , 2015, 9, 4247.	4.3	7
63	A colon-specific prodrug of metoclopramide ameliorates colitis in an experimental rat model. <i>Drug Design, Development and Therapy</i> , 2019, Volume 13, 231-242.	4.3	7
64	Conjugation of Amisulpride, an Anti-Psychotic Agent, with 5-Aminosalicylic Acid via an Azo Bond Yields an Orally Active Mutual Prodrug against Rat Colitis. <i>Pharmaceutics</i> , 2019, 11, 585.	4.5	7
65	Multi-omics based characterization of antibiotic response in clinical isogenic isolates of methicillin-susceptible/-resistant <i>Staphylococcus aureus</i> . <i>RSC Advances</i> , 2020, 10, 27864-27873.	3.6	7
66	Celecoxib coupled to dextran via a glutamic acid linker yields a polymeric prodrug suitable for colonic delivery. <i>Drug Design, Development and Therapy</i> , 2015, 9, 4105.	4.3	6
67	The role of NdgR in glycerol metabolism in <i>Streptomyces coelicolor</i> . <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1573-1580.	3.4	6
68	Antimicrobial activity of the membrane-active compound nTZDpa is enhanced at low pH. <i>Biomedicine and Pharmacotherapy</i> , 2022, 150, 112977.	5.6	6
69	L-Glycine Alleviates Furfural-Induced Growth Inhibition during Isobutanol Production in <i>Escherichia coli</i> . <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 2165-2172.	2.1	5
70	N-(2-mercaptopropionyl)-glycine, a diffusible antioxidant, activates HIF-1 by inhibiting HIF prolyl hydroxylase-2: Implication in amelioration of rat colitis by the antioxidant. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 1008-1013.	2.1	4
71	Rebamipide induces the gastric mucosal protective factor, cyclooxygenase-2, via activation of 5 $\alpha$ -AMP-activated protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 449-455.	2.1	4
72	Simultaneous monitoring of the bioconversion from lysine to glutaric acid by ethyl chloroformate derivatization and gas chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , 2020, 597, 113688.	2.4	4

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73	Evaluation of glycine-bearing celecoxib derivatives as a colon-specific mutual prodrug acting on nuclear factor- $\kappa$ B, an anti-inflammatory target. <i>Drug Design, Development and Therapy</i> , 2015, 9, 4227.	4.3	3
74	Generation of Recombinant Antibodies in HEK293F Cells for the Detection of <i>Staphylococcus aureus</i> . <i>ACS Omega</i> , 2022, 7, 9690-9700.	3.5	3
75	Antimicrobial Drug Discovery Against Persisters. , 2019, , 273-295.		2
76	4-Chloro-2-Isopropyl-5-Methylphenol Exhibits Antimicrobial and Adjuvant Activity against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Microbiology and Biotechnology</i> , 2022, 32, 730-739.	2.1	2
77	Leucyl-tRNA Synthetase Inhibitor, D-Norvaline, in Combination with Oxacillin, Is Effective against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antibiotics</i> , 2022, 11, 683.	3.7	2
78	An integrative approach for high-throughput screening and characterization of transcriptional regulators in <i>Streptomyces coelicolor</i> . <i>Pure and Applied Chemistry</i> , 2010, 82, 57-67.	1.9	1
79	Preparation and Evaluation of Amino Acid Conjugates of Celecoxib as Prodrugs to Improve the Pharmacokinetic and Therapeutic Properties of Celecoxib. <i>Pharmaceutics</i> , 2020, 12, 1043.	4.5	1
80	Novel $\beta$ -phenylacrylic acid derivatives exert anti-cancer activity by inducing Src-mediated apoptosis in wild-type KRAS colon cancer. <i>Cell Death and Disease</i> , 2018, 9, 877.	6.3	0