Yeo Joon Yoon

List of Publications by Year
in descending order

120	3,736	136740	168136
papers	citations	32 h-index	53 g-index

126	126	126	3774
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review of the Microbial Production of Bioactive Natural Products and Biologics. Frontiers in Microbiology, 2019, 10, 1404.	1.5	323
2	The dynamic transcriptional and translational landscape of the model antibiotic producer Streptomyces coelicolor A3(2). Nature Communications, 2016, 7, 11605.	5.8	201
3	Reinvigorating natural product combinatorial biosynthesis with synthetic biology. Nature Chemical Biology, 2015, 11, 649-659.	3.9	175
4	Biosynthesis of the Allylmalonyl-CoA Extender Unit for the FK506 Polyketide Synthase Proceeds through a Dedicated Polyketide Synthase and Facilitates the Mutasynthesis of Analogues. Journal of the American Chemical Society, 2011, 133, 976-985.	6.6	143
5	Generation of Multiple Bioactive Macrolides by Hybrid Modular Polyketide Synthases in Streptomyces venezuelae. Chemistry and Biology, 2002, 9, 203-214.	6.2	98
6	An overview of rapamycin: from discovery to future perspectives. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 537-553.	1.4	79
7	Discovery of parallel pathways of kanamycin biosynthesis allows antibiotic manipulation. Nature Chemical Biology, 2011, 7, 843-852.	3.9	77
8	Engineering of plant-specific phenylpropanoids biosynthesis in Streptomyces venezuelae. Journal of Biotechnology, 2009, 141, 181-188.	1.9	74
9	Enhanced FK506 production in Streptomyces clavuligerus CKD1119 by engineering the supply of methylmalonyl-CoA precursor. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1473-1482.	1.4	72
10	Microbial biosynthesis of medicinally important plant secondary metabolites. Natural Product Reports, 2014, 31, 1497-1509.	5.2	71
11	Heterologous expression of tylosin polyketide synthase and production of a hybrid bioactive macrolide in Streptomyces venezuelae. Applied Microbiology and Biotechnology, 2006, 72, 763-769.	1.7	69
12	Genetic engineering of macrolide biosynthesis: past advances, current state, and future prospects. Applied Microbiology and Biotechnology, 2010, 85, 1227-1239.	1.7	68
13	Biosynthesis of rapamycin and its regulation: past achievements and recent progress. Journal of Antibiotics, 2010, 63, 434-441.	1.0	65
14	Heterologous Production of 4-O-Demethylbarbamide, a Marine Cyanobacterial Natural Product. Organic Letters, 2012, 14, 5824-5827.	2.4	62
15	Analysis of intracellular short organic acid-coenzyme A esters from actinomycetes using liquid chromatography-electrospray ionization-mass spectrometry. Journal of Mass Spectrometry, 2007, 42, 1136-1147.	0.7	61
16	2-Deoxystreptamine-containing aminoglycoside antibiotics: Recent advances in the characterization and manipulation of their biosynthetic pathways. Natural Product Reports, 2013, 30, 11-20.	5.2	60
17	Expanding substrate specificity of GTâ€B fold glycosyltransferase via domain swapping and highâ€throughput screening. Biotechnology and Bioengineering, 2009, 102, 988-994.	1.7	59
18	Development of a Streptomyces venezuelae-Based Combinatorial Biosynthetic System for the Production of Glycosylated Derivatives of Doxorubicin and Its Biosynthetic Intermediates. Applied and Environmental Microbiology, 2011, 77, 4912-4923.	1.4	56

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19	Genetic dissection of the biosynthetic route to gentamicin A₂by heterologous expression of its minimal gene set. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8399-8404.	3.3	55
20	A combined approach of classical mutagenesis and rational metabolic engineering improves rapamycin biosynthesis and provides insights into methylmalonyl-CoA precursor supply pathway in Streptomyces hygroscopicus ATCC 29253. Applied Microbiology and Biotechnology, 2011, 91, 1389-1397.	1.7	51
21	Biocatalytic Synthesis of Pikromycin, Methymycin, Neomethymycin, Novamethymycin, and Ketomethymycin. Journal of the American Chemical Society, 2013, 135, 11232-11238.	6.6	50
22	Enhanced Flavonoid Production in Streptomyces venezuelae via Metabolic Engineering. Journal of Microbiology and Biotechnology, 2011, 21, 1143-1146.	0.9	46
23	New olivosyl derivatives of methymycin/pikromycin from an engineered strain of. FEMS Microbiology Letters, 2004, 238, 391-399.	0.7	44
24	In VitroandIn VivoAssessment of FK506 Analogs as Novel Antifungal Drug Candidates. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	44
25	New olivosyl derivatives of methymycin/pikromycin from an engineered strain ofStreptomyces venezuelae. FEMS Microbiology Letters, 2004, 238, 391-399.	0.7	42
26	Roles of fkbN in Positive Regulation and tcs7 in Negative Regulation of FK506 Biosynthesis in Streptomyces sp. Strain KCTC 11604BP. Applied and Environmental Microbiology, 2012, 78, 2249-2255.	1.4	41
27	Neopikromycin and Novapikromycin from the Pikromycin Biosynthetic Pathway ofStreptomycesvenezuelae. Journal of Natural Products, 2006, 69, 847-849.	1.5	38
28	Enzymatic synthesis of epothilone A glycosides. AMB Express, 2014, 4, 31.	1.4	38
29	Characterization and engineering of the ethylmalonyl-CoA pathway towards the improved heterologous production of polyketides in Streptomyces venezuelae. Applied Microbiology and Biotechnology, 2014, 98, 3701-3713.	1.7	36
30	Bioconversion of 12-, 14-, and 16-membered ring aglycones to glycosylated macrolides in an engineered strain of Streptomyces venezuelae. Applied Microbiology and Biotechnology, 2007, 76, 1373-1381.	1.7	35
31	Heterologous production of epothilones B and D in Streptomyces venezuelae. Applied Microbiology and Biotechnology, 2008, 81, 109-117.	1.7	35
32	The biosynthetic pathway of FK506 and its engineering: from past achievements to future prospects. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 389-400.	1.4	35
33	Systems and synthetic biology to elucidate secondary metabolite biosynthetic gene clusters encoded inStreptomycesgenomes. Natural Product Reports, 2021, 38, 1330-1361.	5.2	35
34	Aripiprazoleï£¿Montmorillonite: A New Organicâ€“Inorganic Nanohybrid Material for Biomedical Applications. Chemistry - A European Journal, 2013, 19, 4869-4875.	1.7	33
35	Glycosylation of various flavonoids by recombinant oleandomycin glycosyltransferase from Streptomyces antibioticus in batch and repeated batch modes. Biotechnology Letters, 2012, 34, 499-505.	1.1	31
36	Achievements and impacts of glycosylation reactions involved in natural product biosynthesis in prokaryotes. Applied Microbiology and Biotechnology, 2013, 97, 5691-5704.	1.7	31

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37	Ansalactams Bâ€“D Illustrate Further Biosynthetic Plasticity within the Ansamycin Pathway. Organic Letters, 2016, 18, 2256-2259.	2.4	30
38	Combinatorial biosynthesis and antibacterial evaluation of glycosylated derivatives of 12-membered macrolide antibiotic YC-17. Journal of Biotechnology, 2013, 168, 142-148.	1.9	29
39	Developing Streptomyces venezuelae as a cell factory for the production of small molecules used in drug discovery. Archives of Pharmacal Research, 2015, 38, 1606-1616.	2.7	29
40	Engineered biosynthesis of milbemycins in the avermectin high-producing strain Streptomyces avermitilis. Microbial Cell Factories, 2017, 16, 9.	1.9	28
41	Improved Production of Long-Chain Fatty Acid in Escherichia coli by an Engineering Elongation Cycle During Fatty Acid Synthesis (FAS) Through Genetic Manipulation. Journal of Microbiology and Biotechnology, 2012, 22, 990-999.	0.9	28
42	Analytical Profiling of Biosynthetic Intermediates Involved in the Gentamicin Pathway ofMicromonospora echinosporaby High-Performance Liquid Chromatography Using Electrospray Ionization Mass Spectrometric Detection. Analytical Chemistry, 2007, 79, 4860-4869.	3.2	27
43	Engineered biosynthesis of glycosylated derivatives of narbomycin and evaluation of their antibacterial activities. Applied Microbiology and Biotechnology, 2012, 93, 1147-1156.	1.7	27
44	The yeast platform engineered for synthetic gRNA-landing pads enables multiple gene integrations by a single gRNA/Cas9 system. Metabolic Engineering, 2021, 64, 111-121.	3.6	27
45	Biosynthesis of Plant-Specific Flavones and Flavonols in Streptomyces venezuelae. Journal of Microbiology and Biotechnology, 2010, 20, 1295-1299.	0.9	26
46	Designed Biosynthesis of 36-Methyl-FK506 by Polyketide Precursor Pathway Engineering. ACS Synthetic Biology, 2013, 2, 379-383.	1.9	25
47	Characterization of negative regulatory genes for the biosynthesis of rapamycin in Streptomyces rapamycinicus and its application for improved production. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 125-135.	1.4	25
48	Highly Effective Fluorescent Sensor for Hg2+ in Aqueous Solution. Supramolecular Chemistry, 2004, 16, 621-624.	1.5	24
49	Heterologous expression of the kanamycin biosynthetic gene cluster (pSKC2) in Streptomyces venezuelae YJ003. Applied Microbiology and Biotechnology, 2007, 76, 1357-1364.	1.7	24
50	Characterization of FK506 Biosynthetic Intermediates Involved in Post-PKS Elaboration. Journal of Natural Products, 2013, 76, 1091-1098.	1.5	24
51	Camporidines A and B: Antimetastatic and Anti-inflammatory Polyketide Alkaloids from a Gut Bacterium of Camponotus kiusiuensis. Journal of Natural Products, 2019, 82, 903-910.	1.5	24
52	Nutrient effects on FK-506, a new immunosuppressant, production by Streptomyces sp. in a defined medium. Journal of Bioscience and Bioengineering, 1997, 83, 599-603.	0.9	23
53	Enhanced Heterologous Production of Desosaminyl Macrolides and Their Hydroxylated Derivatives by Overexpression of the pikD Regulatory Gene in Streptomyces venezuelae. Applied and Environmental Microbiology, 2008, 74, 1972-1979.	1.4	23
54	A nanohybrid system for taste masking of sildenafil. International Journal of Nanomedicine, 2012, 7, 1635.	3.3	23

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55	Integrating cellâ€free biosyntheses of heme prosthetic group and apoenzyme for the synthesis of functional P450 monooxygenase. Biotechnology and Bioengineering, 2013, 110, 1193-1200.	1.7	23
56	Bombyxamycins A and B, Cytotoxic Macrocyclic Lactams from an Intestinal Bacterium of the Silkworm Bombyx mori. Organic Letters, 2019, 21, 1804-1808.	2.4	22
57	Complete reconstitution of the diverse pathways of gentamicin B biosynthesis. Nature Chemical Biology, 2019, 15, 295-303.	3.9	22
58	Absolute Configuration and Antibiotic Activity of Piceamycin. Journal of Natural Products, 2020, 83, 277-285.	1.5	21
59	Functional analysis of DesVIII homologues involved in glycosylation of macrolide antibiotics by interspecies complementation. Gene, 2007, 386, 123-130.	1.0	20
60	Formicolides A and B, Antioxidative and Antiangiogenic 20-Membered Macrolides from a Wood Ant Gut Bacterium. Journal of Natural Products, 2020, 83, 2776-2784.	1.5	20
61	Dumulmycin, an Antitubercular Bicyclic Macrolide from a Riverine Sediment-Derived Streptomyces sp.. Organic Letters, 2021, 23, 3359-3363.	2.4	19
62	Unprecedented Noncanonical Features of the Nonlinear Nonribosomal Peptide Synthetase Assembly Line for WS9326A Biosynthesis. Angewandte Chemie - International Edition, 2021, 60, 19766-19773.	7.2	19
63	Marinopyrones Aâ€“D, Î±-pyrones from marine-derived actinomycetes of the family Nocardiopsaceae. Tetrahedron Letters, 2016, 57, 1997-2000.	0.7	18
64	Complete genome sequence of Streptomyces venezuelae ATCC 15439, a promising cell factory for production of secondary metabolites. Journal of Biotechnology, 2016, 219, 57-58.	1.9	18
65	Biosynthesis of Nonimmunosuppressive FK506 Analogues with Antifungal Activity. Journal of Natural Products, 2019, 82, 2078-2086.	1.5	18
66	High-yield production of multiple O-methylated phenylpropanoids by the engineered Escherichia coliâ€“Streptomyces cocultivation system. Microbial Cell Factories, 2019, 18, 67.	1.9	18
67	Structures and Biosynthetic Pathway of Pulvomycins Bâ€“D: 22-Membered Macrolides from an Estuarine Streptomyces sp.. Organic Letters, 2020, 22, 5358-5362.	2.4	18
68	Liquid chromatographyâ€“mass spectrometry characterization of FK506 biosynthetic intermediates in Streptomyces clavuligerus KCTC 10561BP. Analytical Biochemistry, 2009, 393, 1-7.	1.1	17
69	Biosynthetic pathways of aminoglycosides and their engineering. Current Opinion in Biotechnology, 2017, 48, 33-41.	3.3	17
70	Microbial production of O-methylated flavanones from methylated phenylpropanoic acids in engineered Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1707-1713.	1.4	17
71	Donghaesulfins A and B, Dimeric Benz[a]anthracene Thioethers from Volcanic Island Derived Streptomyces sp.. Organic Letters, 2019, 21, 3635-3639.	2.4	17
72	Minor components of aminoglycosides: recent advances in their biosynthesis and therapeutic potential. Natural Product Reports, 2020, 37, 301-311.	5.2	17

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73	Robust ZnO nanoparticle embedded memory device using vancomycin conjugate and its biorecognition for electrical charging node. Biosensors and Bioelectronics, 2014, 56, 33-38.	5.3	16
74	Re-engineering of genetic circuit for 2-deoxystreptamine (2-DOS) biosynthesis in Escherichia coli BL21 (DE3). Biotechnology Letters, 2013, 35, 285-293.	1.1	15
75	Lodopyridones B and C from a marine sediment-derived bacterium Saccharomonospora sp.. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3123-3126.	1.0	15
76	Structure Revision and the Biosynthetic Pathway of Tripartilactam. Journal of Natural Products, 2020, 83, 578-583.	1.5	15
77	Nyuzenamide C, an Antiangiogenic Epoxy Cinnamic Acid-Containing Bicyclic Peptide from a Riverine Streptomyces sp.. Journal of Natural Products, 2022, 85, 804-814.	1.5	15
78	Glycosyltransferase and its application to glycodiversification of natural products. Journal of Industrial and Engineering Chemistry, 2012, 18, 1208-1212.	2.9	14
79	Enabling techniques in the search for new antibiotics: Combinatorial biosynthesis of sugar-containing antibiotics. Biochemical Pharmacology, 2017, 134, 56-73.	2.0	14
80	Characterization of the Ohmyungsamycin Biosynthetic Pathway and Generation of Derivatives with Improved Antituberculosis Activity. Biomolecules, 2019, 9, 672.	1.8	14
81	Identification of a Cyclosporine-Specific P450 Hydroxylase Gene through Targeted Cytochrome P450 Complement (CYPome) Disruption in Sebekia benihana. Applied and Environmental Microbiology, 2013, 79, 2253-2262.	1.4	13
82	The nebramycin aminoglycoside profiles of Streptomyces tenebrarius and their characterization using an integrated liquid chromatography-electrospray ionization-tandem mass spectrometric analysis. Analytica Chimica Acta, 2010, 661, 76-84.	2.6	12
83	Enhancement of Long-Chain Fatty Acid Production in Escherichia coli by Coexpressing Genes, Including fabF, Involved in the Elongation Cycle of Fatty Acid Biosynthesis. Applied Biochemistry and Biotechnology, 2013, 169, 462-476.	1.4	12
84	Exploiting the natural metabolic diversity of Streptomyces venezuelae to generate unusual reduced macrolides. Chemical Communications, 2008, , 5782.	2.2	11
85	Combinatorial biosynthesis of 5-O-desosaminyl erythronolide A as a potent precursor of ketolide antibiotics. Journal of Biotechnology, 2008, 135, 92-96.	1.9	11
86	Structural modification of herboxidiene by substrate-flexible cytochrome P450 and glycosyltransferase. Applied Microbiology and Biotechnology, 2015, 99, 3421-3431.	1.7	11
87	Structural and mechanistic characterization of an archaeal-like chaperonin from a thermophilic bacterium. Nature Communications, 2017, 8, 827.	5.8	11
88	Structures and Biosynthetic Pathway of Coprisamides C and D, 2-Alkenylcinnamic Acid-Containing Peptides from the Gut Bacterium of the Carrion Beetle Silpha perforata. Journal of Natural Products, 2021, 84, 239-246.	1.5	11
89	Development of Non-Immunosuppressive FK506 Derivatives as Antifungal and Neurotrophic Agents. Journal of Microbiology and Biotechnology, 2020, 30, 1-10.	0.9	11
90	One-Pot Combinatorial Biosynthesis of Glycosylated Anthracyclines by Cocultivation of Streptomyces Strains Producing Aglycones and Nucleotide Deoxysugars. ACS Combinatorial Science, 2017, 19, 262-270.	3.8	10

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91	Depsidomycins B and C: New Cyclic Peptides from a Ginseng Farm Soil-Derived Actinomycete. Molecules, 2018, 23, 1266.	1.7	10
92	Improved production of clavulanic acid by reverse engineering and overexpression of the regulatory genes in an industrial Streptomyces clavuligerus strain. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1205-1215.	1.4	10
93	Enhanced production of clavulanic acid by improving glycerol utilization using reporter-guided mutagenesis of an industrial Streptomyces clavuligerus strain. Journal of Industrial Microbiology and Biotechnology, 2021, 48, .	1.4	10
94	Azetidine-Bearing Non-Ribosomal Peptides, Bonnevillamides D and E, Isolated from a Carrion Beetle-Associated Actinomycete. Journal of Organic Chemistry, 2021, 86, 11149-11159.	1.7	10
95	A non-immunosuppressive FK506 analogue with neuroregenerative activity produced from a genetically engineered Streptomyces strain. RSC Advances, 2015, 5, 6823-6828.	1.7	9
96	Characterization of the Two Methylation Steps Involved in the Biosynthesis of Mycinose in Tylosin. Journal of Natural Products, 2016, 79, 2014-2021.	1.5	8
97	Enhanced Ohmyungsamycin A Production via Adenylation Domain Engineering and Optimization of Culture Conditions. Frontiers in Microbiology, 2021, 12, 626881.	1.5	8
98	Interspecies Complementation of the LuxR Family Pathway-Specific Regulator Involved in Macrolide Biosynthesis. Journal of Microbiology and Biotechnology, 2016, 26, 66-71.	0.9	8
99	Mutational biosynthesis of a FK506 analogue containing a non-natural starter unit. Molecular BioSystems, 2013, 9, 944-947.	2.9	7
100	Structural characterization of cyclosporin A, C and microbial bio-transformed cyclosporin A analog AM6 using HPLCâ€“ESIâ€“ion trap-mass spectrometry. Talanta, 2014, 123, 89-94.	2.9	7
101	Chemoenzymatic Synthesis of Glycosylated Macrolactam Analogues of the Macrolide Antibiotic YCâ€17. Advanced Synthesis and Catalysis, 2015, 357, 2697-2711.	2.1	7
102	Heterologous production of ribostamycin derivatives in engineered Escherichia coli. Research in Microbiology, 2010, 161, 526-533.	1.0	6
103	Microbial Transformation of Trichostatin A to 2,3-Dihydrotrichostatin A. Journal of Natural Products, 2011, 74, 1272-1274.	1.5	6
104	Istamycin aminoglycosides profiling and their characterization in Streptomyces tenjimariensis ATCC 31603 culture using highâ€performance liquid chromatography with tandem mass spectrometry. Journal of Separation Science, 2016, 39, 4712-4722.	1.3	6
105	Recent advances in the discovery and combinatorial biosynthesis of microbial 14-membered macrolides and macrolactones. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 445-458.	1.4	6
106	Biosynthesis of Glycosylated Derivatives of Tylosin in Streptomyces venezuelae. Journal of Microbiology and Biotechnology, 2011, 21, 613-616.	0.9	6
107	Characterization of fortimicin aminoglycoside profiles produced from Micromonospora olivasterospora DSM 43868 by high-performance liquid chromatography-electrospray ionization-ion trap-mass spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 1667-1678.	1.9	5
108	Functional characterization of O -methyltransferases used to catalyse site-specific methylation in the post-tailoring steps of pradimicin biosynthesis. Journal of Applied Microbiology, 2018, 124, 144-154.	1.4	4

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109	Enhanced Biosynthesis of 2-Deoxy-scyllo-inosose in Metabolically Engineered Bacillus subtilis Recombinants. Frontiers in Microbiology, 2018, 9, 2333.	1.5	4
110	Development of 6â€²-N-Acylated Isepamicin Analogs with Improved Antibacterial Activity against Isepamicin-Resistant Pathogens. Biomolecules, 2020, 10, 893.	1.8	4
111	Characterization and identification of pradimicin analogs from Actinomadura hibisca using liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2011, 1218, 2284-2291.	1.8	3
112	Functional analysis of ABC transporter genes pdmR1 and pdmR2 in Actinomadura hibisca P-1752 and enhancement of pradimicin production. Biotechnology and Bioprocess Engineering, 2012, 17, 8-15.	1.4	3
113	Regio-selectively reduced streptogramin A analogue, 5,6-dihydrovirginiamycin M1 exhibits improved potency against MRSA. Letters in Applied Microbiology, 2013, 57, 393-398.	1.0	3
114	Microbial Enzymatic Synthesis of Amikacin Analogs With Antibacterial Activity Against Multidrug-Resistant Pathogens. Frontiers in Microbiology, 2021, 12, 725916.	1.5	3
115	Biotransformation of Rosamicin Antibiotic into 10,11-Dihydrorosamicin with Enhanced In Vitro Antibacterial Activity Against MRSA. Journal of Microbiology and Biotechnology, 2014, 24, 44-47.	0.9	3
116	Taeanamides A and B, Nonribosomal Lipo-Decapeptides Isolated from an Intertidal-Mudflat-Derived Streptomyces sp.. Marine Drugs, 2022, 20, 400.	2.2	3
117	Biosynthesis of Nonimmunosuppressive ProlylFK506 Analogues with Neurite Outgrowth and Synaptogenic Activity. Journal of Natural Products, 2021, 84, 195-203.	1.5	1
118	Cyclodimerization of Mohangamide A by Thioesterase Domain Is Directed by Substrates. Organic Letters, 2022, 24, 4444-4448.	2.4	1
119	Unprecedented Noncanonical Features of the Nonlinear Nonribosomal Peptide Synthetase Assembly Line for WS9326A Biosynthesis. Angewandte Chemie, 2021, 133, 19919-19926.	1.6	0
120	Innentitelbild: Unprecedented Noncanonical Features of the Nonlinear Nonribosomal Peptide Synthetase Assembly Line for WS9326A Biosynthesis (Angew. Chem. 36/2021). Angewandte Chemie, 2021, 133, 19646-19646.	1.6	0