

Sang-Sun Yoon

List of Publications by Year in descending order

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73
papers

3,411
citations

159585

30
h-index

149698

56
g-index

80
all docs

80
docs citations

80
times ranked

4591
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Pseudomonas aeruginosa</i> Anaerobic Respiration in Biofilms. <i>Developmental Cell</i> , 2002, 3, 593-603.	7.0	528
2	Anaerobic metabolism and quorum sensing by <i>Pseudomonas aeruginosa</i> biofilms in chronically infected cystic fibrosis airways: rethinking antibiotic treatment strategies and drug targets. <i>Advanced Drug Delivery Reviews</i> , 2002, 54, 1425-1443.	13.7	269
3	MglA regulates transcription of virulence factors necessary for <i>Francisella tularensis</i> intraamoebae and intramacrophage survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4246-4249.	7.1	253
4	Anaerobic killing of mucoid <i>Pseudomonas aeruginosa</i> by acidified nitrite derivatives under cystic fibrosis airway conditions. <i>Journal of Clinical Investigation</i> , 2006, 116, 436-446.	8.2	196
5	<i>Pseudomonas aeruginosa</i> Biofilm, a Programmed Bacterial Life for Fitness. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 1053-1064.	2.1	146
6	Disruption of the Gut Ecosystem by Antibiotics. <i>Yonsei Medical Journal</i> , 2018, 59, 4.	2.2	132
7	Proteome Analysis of Metabolically Engineered <i>Escherichia coli</i> Producing Poly(3-Hydroxybutyrate). <i>Journal of Bacteriology</i> , 2001, 183, 301-308.	2.2	120
8	Contribution of Cell Elongation to the Biofilm Formation of <i>Pseudomonas aeruginosa</i> during Anaerobic Respiration. <i>PLoS ONE</i> , 2011, 6, e16105.	2.5	87
9	2,3-Butanediol Synthesis and the Emergence of the <i>Vibrio cholerae</i> El Tor Biotype. <i>Infection and Immunity</i> , 2006, 74, 6547-6556.	2.2	76
10	Neutrophil pyroptosis mediates pathology of <i>P. aeruginosa</i> lung infection in the absence of the NADPH oxidase NOX2. <i>Mucosal Immunology</i> , 2017, 10, 757-774.	6.0	65
11	A novel siderophore system is essential for the growth of <i>Pseudomonas aeruginosa</i> in airway mucus. <i>Scientific Reports</i> , 2015, 5, 14644.	3.3	64
12	Two-pronged survival strategy for the major cystic fibrosis pathogen, <i>Pseudomonas aeruginosa</i> , lacking the capacity to degrade nitric oxide during anaerobic respiration. <i>EMBO Journal</i> , 2007, 26, 3662-3672.	7.8	63
13	Terrein is an inhibitor of quorum sensing and c-di-GMP in <i>Pseudomonas aeruginosa</i> : a connection between quorum sensing and c-di-GMP. <i>Scientific Reports</i> , 2018, 8, 8617.	3.3	59
14	Virulence Characteristics and an Action Mode of Antibiotic Resistance in Multidrug-Resistant <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2019, 9, 487.	3.3	59
15	<i>Pseudomonas aeruginosa</i> Bacteriophage PA1 λ Requires Type IV Pili for Infection and Shows Broad Bactericidal and Biofilm Removal Activities. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6380-6385.	3.1	55
16	Nasal commensal <i>Staphylococcus epidermidis</i> enhances interferon- γ -dependent immunity against influenza virus. <i>Microbiome</i> , 2019, 7, 80.	11.1	55
17	Dissemination of metallo- β -lactamase-producing <i>Pseudomonas aeruginosa</i> of sequence type 235 in Asian countries. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 2820-2824.	3.0	54
18	Commensal-derived metabolites govern <i>Vibrio cholerae</i> pathogenesis in host intestine. <i>Microbiome</i> , 2019, 7, 132.	11.1	54

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19	Activation of Cholera Toxin Production by Anaerobic Respiration of Trimethylamine N-oxide in <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 39742-39752.	3.4	53
20	Inhibitory effects of broccoli extract on <i>Escherichia coli</i> O157:H7 quorum sensing and in vivo virulence. <i>FEMS Microbiology Letters</i> , 2011, 321, 67-74.	1.8	51
21	Functional genomic and metagenomic approaches to understanding gut microbiota-animal mutualism. <i>Current Opinion in Microbiology</i> , 2015, 24, 38-46.	5.1	48
22	Vitamin B ₁₂ -Mediated Restoration of Defective Anaerobic Growth Leads to Reduced Biofilm Formation in <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2012, 80, 1639-1649.	2.2	44
23	Anaerobiosis-Induced Loss of Cytotoxicity Is Due to Inactivation of Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2011, 79, 2792-2800.	2.2	43
24	Protective role of gut commensal microbes against intestinal infections. <i>Journal of Microbiology</i> , 2014, 52, 983-989.	2.8	43
25	Cleaved Cochlin Sequesters <i>Pseudomonas aeruginosa</i> and Activates Innate Immunity in the Inner Ear. <i>Cell Host and Microbe</i> , 2019, 25, 513-525.e6.	11.0	42
26	Decreased Potency of the <i>Vibrio cholerae</i> Sheathed Flagellum To Trigger Host Innate Immunity. <i>Infection and Immunity</i> , 2008, 76, 1282-1288.	2.2	38
27	Guanosine tetra- and pentaphosphate increase antibiotic tolerance by reducing reactive oxygen species production in <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 5679-5694.	3.4	38
28	Chronic <i>Pseudomonas aeruginosa</i> infection in cystic fibrosis airway disease: metabolic changes that unravel novel drug targets. <i>Expert Review of Anti-Infective Therapy</i> , 2004, 2, 611-623.	4.4	35
29	Thermoresponsive fluorinated polyacrylamides with low cytotoxicity. <i>Polymer Chemistry</i> , 2013, 4, 2219-2223.	3.9	35
30	Molecular Determinants of the Thickened Matrix in a Dual-Species <i>Pseudomonas aeruginosa</i> and <i>Enterococcus faecalis</i> Biofilm. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	34
31	Risk factors for mortality in patients with bloodstream infections caused by carbapenem-resistant <i>Pseudomonas aeruginosa</i> : clinical impact of bacterial virulence and strains on outcome. <i>Diagnostic Microbiology and Infectious Disease</i> , 2014, 80, 130-135.	1.8	33
32	Production and sequence validation of a complete full length ORF collection for the pathogenic bacterium <i>Vibrio cholerae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4364-4369.	7.1	32
33	A Drug-Repositioning Screening Identifies Pentetic Acid as a Potential Therapeutic Agent for Suppressing the Elastase-Mediated Virulence of <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 7205-7214.	3.2	31
34	A single gene of a commensal microbe affects host susceptibility to enteric infection. <i>Nature Communications</i> , 2016, 7, 11606.	12.8	31
35	Suppressed Induction of Proinflammatory Cytokines by a Unique Metabolite Produced by <i>Vibrio cholerae</i> O1 El Tor Biotype in Cultured Host Cells. <i>Infection and Immunity</i> , 2011, 79, 3149-3158.	2.2	30
36	Network-assisted investigation of virulence and antibiotic-resistance systems in <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2016, 6, 26223.	3.3	28

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37	Functional Screening of a Metagenomic Library Reveals Operons Responsible for Enhanced Intestinal Colonization by Gut Commensal Microbes. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3829-3838.	3.1	23
38	Rapid Detection of <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> Harboring blaVIM-2, blaIMP-1 and blaOXA-23 Genes by Using Loop-Mediated Isothermal Amplification Methods. <i>Annals of Laboratory Medicine</i> , 2016, 36, 15-22.	2.5	22
39	Cholera Toxin Production during Anaerobic Trimethylamine N-Oxide Respiration Is Mediated by Stringent Response in <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 13232-13242.	3.4	21
40	<i>Vibrio cholerae</i> Proteome-Wide Screen for Immunostimulatory Proteins Identifies Phosphatidylserine Decarboxylase as a Novel Toll-Like Receptor 4 Agonist. <i>PLoS Pathogens</i> , 2009, 5, e1000556.	4.7	20
41	The Resistance Mechanism and Clonal Distribution of Tigecycline-Nonsusceptible <i>Klebsiella pneumoniae</i> Isolates in Korea. <i>Yonsei Medical Journal</i> , 2016, 57, 641.	2.2	19
42	Nitric Oxide, an Old Molecule With Noble Functions in <i>Pseudomonas aeruginosa</i> Biology. <i>Advances in Microbial Physiology</i> , 2018, 72, 117-145.	2.4	19
43	Bacterial Secretant from <i>Pseudomonas aeruginosa</i> Dampens Inflammation Activation in a Quorum Sensing-Dependent Manner. <i>Frontiers in Immunology</i> , 2017, 8, 333.	4.8	18
44	Transcriptome analysis reveals that the RNA polymerase-binding protein DksA1 has pleiotropic functions in <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 3851-3864.	3.4	16
45	Alterations in glucose metabolism in <i>Vibrio cholerae</i> serogroup O1 El Tor biotype strains. <i>Scientific Reports</i> , 2020, 10, 308.	3.3	16
46	Loop-mediated isothermal amplification of vanA gene enables a rapid and naked-eye detection of vancomycin-resistant enterococci infection. <i>Journal of Microbiological Methods</i> , 2014, 104, 61-66.	1.6	15
47	The ferrichrome receptor A as a new target for <i>Pseudomonas aeruginosa</i> virulence attenuation. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw104.	1.8	15
48	Structural and functional importance of outer membrane proteins in <i>Vibrio cholerae</i> flagellum. <i>Journal of Microbiology</i> , 2012, 50, 631-637.	2.8	14
49	Evaluation of humoral immune response to nosocomial pathogen and functional status in elderly patients with sepsis. <i>Archives of Gerontology and Geriatrics</i> , 2014, 58, 10-14.	3.0	14
50	(p)ppGpp, a Small Nucleotide Regulator, Directs the Metabolic Fate of Glucose in <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 13178-13190.	3.4	14
51	A Genetic Screen Reveals Novel Targets to Render <i>Pseudomonas aeruginosa</i> Sensitive to Lysozyme and Cell Wall-Targeting Antibiotics. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 59.	3.9	11
52	Association between <i>Fusobacterium nucleatum</i> and patient prognosis in metastatic colon cancer. <i>Scientific Reports</i> , 2021, 11, 20263.	3.3	11
53	Identification of essential genes of <i>Pseudomonas aeruginosa</i> for its growth in airway mucus. <i>Journal of Microbiology</i> , 2017, 55, 68-74.	2.8	10
54	IL-17C Protects Nasal Epithelium from <i>Pseudomonas aeruginosa</i> Infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 95-103.	2.9	10

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55	Cholera Toxin Production Induced upon Anaerobic Respiration is Suppressed by Glucose Fermentation in <i>Vibrio cholerae</i> . <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 627-636.	2.1	10
56	Nonmucoid conversion of mucoid <i>Pseudomonas aeruginosa</i> induced by sulfate-stimulated growth. <i>FEMS Microbiology Letters</i> , 2014, 360, 157-166.	1.8	9
57	Microbiome and mycobiome interaction in house dust mites and impact on airway cells. <i>Clinical and Experimental Allergy</i> , 2021, 51, 1592-1602.	2.9	8
58	Selective and Efficient Elimination of <i>Vibrio cholerae</i> with a Chemical Modulator that Targets Glucose Metabolism. <i>Frontiers in Cellular and Infection Microbiology</i> , 2016, 6, 156.	3.9	7
59	Genome-wide association study of signature genetic alterations among <i>Pseudomonas aeruginosa</i> cystic fibrosis isolates. <i>PLoS Pathogens</i> , 2021, 17, e1009681.	4.7	7
60	High-Fat-Diet-Induced Oxidative Stress Linked to the Increased Colonization of <i>Lactobacillus sakei</i> in an Obese Population. <i>Microbiology Spectrum</i> , 2021, 9, e0007421.	3.0	7
61	An <i>Escherichia coli</i> strain with extra catalase activity protects against murine colitis by scavenging hydrogen peroxide and regulating regulatory T cell/interleukin-17 pathways. <i>Free Radical Biology and Medicine</i> , 2021, 174, 110-120.	2.9	7
62	Heterogeneous virulence potential and high antibiotic resistance of <i>Pseudomonas aeruginosa</i> strains isolated from Korean pneumonia patients. <i>Journal of Microbiology</i> , 2010, 48, 518-525.	2.8	5
63	Network-based genetic investigation of virulence-associated phenotypes in methicillin-resistant <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , 2018, 8, 10796.	3.3	5
64	Effects of <i>flaC</i> Mutation on Stringent Response-Mediated Bacterial Growth, Toxin Production, and Motility in <i>Vibrio cholerae</i> . <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 816-820.	2.1	5
65	The Effect of Formula-based Nutritional Treatment on Colitis in a Murine Model. <i>Journal of Korean Medical Science</i> , 2021, 36, e342.	2.5	5
66	Nasal symbiont <i>Staphylococcus epidermidis</i> restricts the cellular entry of influenza virus into the nasal epithelium. <i>Npj Biofilms and Microbiomes</i> , 2022, 8, 26.	6.4	5
67	Extended longevity and robust early-stage development of <i>C. elegans</i> by a soil microbe, <i>Lysinibacillus sphaericus</i> . <i>Environmental Microbiology Reports</i> , 2014, 6, 730-737.	2.4	4
68	Risk factors for mortality in patients with <i>Pseudomonas aeruginosa</i> pneumonia: Clinical impact of <i>mucA</i> gene mutation. <i>Respiratory Medicine</i> , 2018, 140, 27-31.	2.9	4
69	Alterations in phospholipid profiles of erythrocytes deep-frozen without cryoprotectants. <i>Drug Testing and Analysis</i> , 2019, 11, 1231-1237.	2.6	4
70	Chemical inhibitors of the conserved bacterial transcriptional regulator DksA1 suppressed quorum sensing-mediated virulence of <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100576.	3.4	4
71	Anaerobiosis of <i>Pseudomonas aeruginosa</i> : Implications for Treatments of Airway Infection. <i>Journal of Bacteriology and Virology</i> , 2010, 40, 59.	0.1	2
72	An efficient system for intestinal on-site butyrate production using novel microbiome-derived esterases. <i>Journal of Biological Engineering</i> , 2021, 15, 9.	4.7	1

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73	Isolation of a novel <i>Lactiplantibacillus plantarum</i> strain resistant to nitrite stress and its transcriptome analysis. <i>Journal of Microbiology</i> , 2022, 60, 715-726.	2.8	0