

Sangyong Lim

List of Publications by Year in descending order

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93
papers

1,730
citations

279798

23
h-index

377865

34
g-index

95
all docs

95
docs citations

95
times ranked

2103
citing authors

#	ARTICLE	IF	CITATIONS
1	Conservation and diversity of radiation and oxidative stress resistance mechanisms in <i>Deinococcus</i> species. FEMS Microbiology Reviews, 2019, 43, 19-52.	8.6	141
2	Melittin, a honeybee venom-derived antimicrobial peptide, may target methicillin-resistant <i>Staphylococcus aureus</i> . Molecular Medicine Reports, 2015, 12, 6483-6490.	2.4	91
3	LsrR-Mediated Quorum Sensing Controls Invasiveness of <i>Salmonella typhimurium</i> by Regulating SPI-1 and Flagella Genes. PLoS ONE, 2012, 7, e37059.	2.5	54
4	Status of group B streptococcal vaccine development. Clinical and Experimental Vaccine Research, 2018, 7, 76.	2.2	51
5	<i>Deinococcus daejeonensis</i> sp. nov., isolated from sludge in a sewage disposal plant. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1265-1270.	1.7	49
6	Unraveling Fungal Radiation Resistance Regulatory Networks through the Genome-Wide Transcriptome and Genetic Analyses of <i>Cryptococcus neoformans</i> . MBio, 2016, 7, .	4.1	46
7	Characteristics of sourdough bread fermented with <i>Pediococcus pentosaceus</i> and <i>Saccharomyces cerevisiae</i> and its bio-preservative effect against <i>Aspergillus flavus</i> . Food Chemistry, 2021, 345, 128787.	8.2	43
8	Microbial radiation-resistance mechanisms. Journal of Microbiology, 2017, 55, 499-507.	2.8	41
9	Comparative survival analysis of 12 histidine kinase mutants of <i>Deinococcus radiodurans</i> after exposure to DNA-damaging agents. Bioprocess and Biosystems Engineering, 2013, 36, 781-789.	3.4	40
10	The Inhibitory Effects of Plant Derivate Polyphenols on the Main Protease of SARS Coronavirus 2 and Their Structure-Activity Relationship. Molecules, 2021, 26, 1924.	3.8	39
11	<i>Deinococcus humi</i> sp. nov., isolated from soil. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 2844-2850.	1.7	38
12	Single-molecule visualization of ROS-induced DNA damage in large DNA molecules. Analyst, The, 2016, 141, 847-852.	3.5	38
13	<i>Spirosoma radiotolerans</i> sp. nov., a Gamma-Radiation-Resistant Bacterium Isolated from Gamma Ray-Irradiated Soil. Current Microbiology, 2014, 69, 286-291.	2.2	33
14	Microalgal lipid production using the hydrolysates of rice straw pretreated with gamma irradiation and alkali solution. Biotechnology for Biofuels, 2015, 8, 125.	6.2	33
15	Antioxidant Activities of an Exopolysaccharide (DeinoPol) Produced by the Extreme Radiation-Resistant Bacterium <i>Deinococcus radiodurans</i> . Scientific Reports, 2020, 10, 55.	3.3	33
16	<i>Hymenobacter swuensis</i> sp. nov., a Gamma-Radiation-Resistant Bacteria Isolated from Mountain Soil. Current Microbiology, 2014, 68, 305-310.	2.2	30
17	The three catalases in <i>Deinococcus radiodurans</i> : Only two show catalase activity. Biochemical and Biophysical Research Communications, 2016, 469, 443-448.	2.1	29
18	Progress toward a group B streptococcal vaccine. Human Vaccines and Immunotherapeutics, 2018, 14, 1-13.	3.3	29

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19	Visualization of UV-induced damage on single DNA molecules. <i>Chemical Communications</i> , 2013, 49, 4740.	4.1	28
20	A Comparative Evaluation of Radiation-Induced DNA Damage using Real-Time PCR: Influence of Base Composition. <i>Radiation Research</i> , 2006, 165, 430-437.	1.5	27
21	Hsp20, a Small Heat Shock Protein of <i>Deinococcus radiodurans</i> , Confers Tolerance to Hydrogen Peroxide in <i>Escherichia coli</i> . <i>Journal of Microbiology and Biotechnology</i> , 2014, 24, 1118-1122.	2.1	26
22	<i>Spirosoma pulveris</i> sp. nov., a bacterium isolated from a dust sample collected at Chungnam province, South Korea. <i>Journal of Microbiology</i> , 2015, 53, 750-755.	2.8	25
23	DNA binding fluorescent proteins for the direct visualization of large DNA molecules. <i>Nucleic Acids Research</i> , 2016, 44, e6-e6.	14.5	24
24	Engineering Synthetic Multistress Tolerance in <i>Escherichia coli</i> by Using a Deinococcal Response Regulator, DR1558. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1154-1166.	3.1	23
25	Inactivation of fungal contaminants on Korean traditional cashbox by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2016, 118, 70-74.	2.8	22
26	Rad53- and Chk1-Dependent DNA Damage Response Pathways Cooperatively Promote Fungal Pathogenesis and Modulate Antifungal Drug Susceptibility. <i>MBio</i> , 2019, 10, .	4.1	22
27	<i>Deinococcus actinosclerus</i> sp. nov., a novel bacterium isolated from soil of a rocky hillside. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 1003-1008.	1.7	22
28	<i>Flavisolibacter tropicus</i> sp. nov., isolated from tropical soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3413-3419.	1.7	22
29	Antioxidant activities of fucoidan degraded by gamma irradiation and acidic hydrolysis. <i>Radiation Physics and Chemistry</i> , 2015, 109, 23-26.	2.8	21
30	<i>Spirosoma fluminis</i> sp. nov., a Gamma- ⁶⁰ Cs Radiation Resistant Bacterium Isolated from Sediment of the Han River in South Korea. <i>Current Microbiology</i> , 2016, 73, 689-695.	2.2	20
31	Molecular cloning and expression of amylosucrase from highly radiation-resistant <i>Deinococcus radiopugnans</i> . <i>Food Science and Biotechnology</i> , 2014, 23, 2007-2012.	2.6	19
32	<i>Deinococcus metallilatus</i> sp. nov. and <i>Deinococcus carri</i> sp. nov., isolated from a car air-conditioning system. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 3175-3182.	1.7	19
33	Fis is required for proper regulation of <i>ssaG</i> expression in <i>Salmonella enterica</i> serovar Typhimurium. <i>Microbial Pathogenesis</i> , 2006, 41, 33-42.	2.9	18
34	PprM, a Cold Shock Domain-Containing Protein from <i>Deinococcus radiodurans</i> , Confers Oxidative Stress Tolerance to <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 2124.	3.5	18
35	Fermented Wild Ginseng by <i>Rhizopus oligosporus</i> Improved l-Carnitine and Ginsenoside Contents. <i>Molecules</i> , 2020, 25, 2111.	3.8	17
36	<i>Deinococcus puniceus</i> sp. nov., a Bacterium Isolated from Soil-Irradiated Gamma Radiation. <i>Current Microbiology</i> , 2015, 70, 464-469.	2.2	16

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37	Analysis of alcohol-induced DNA damage in <i>Escherichia coli</i> by visualizing single genomic DNA molecules. <i>Analyst</i> , The, 2016, 141, 4326-4331.	3.5	16
38	Development of Oxytolerant <i>Salmonella typhimurium</i> Using Radiation Mutation Technology (RMT) for Cancer Therapy. <i>Scientific Reports</i> , 2020, 10, 3764.	3.3	16
39	Transcriptome analysis of salt-stressed <i>Deinococcus radiodurans</i> and characterization of salt-sensitive mutants. <i>Research in Microbiology</i> , 2013, 164, 923-932.	2.1	15
40	Development of a multiplexed opsonophagocytic killing assay (MOPA) for group B <i>Streptococcus</i> . <i>Human Vaccines and Immunotherapeutics</i> , 2018, 14, 67-73.	3.3	15
41	Changes in soil taxonomic and functional diversity resulting from gamma irradiation. <i>Scientific Reports</i> , 2019, 9, 7894.	3.3	15
42	<i>Roseomonas radiodurans</i> sp. nov., a gamma-radiation-resistant bacterium isolated from gamma ray-irradiated soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2443-2447.	1.7	15
43	Hfq and ArcA Are Involved in the Stationary Phase-Dependent Activation of <i>Salmonella</i> Pathogenicity Island 1 (SPI1) Under Shaking Culture Conditions. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 1664-1672.	2.1	15
44	Expression and Mutational Analysis of DinB-Like Protein DR0053 in <i>Deinococcus radiodurans</i> . <i>PLoS ONE</i> , 2015, 10, e0118275.	2.5	14
45	Effect of gamma irradiation on physiological and proteomic changes of Arctic <i>Zygnema</i> sp. (Chlorophyta, Zygnematales). <i>Phycologia</i> , 2015, 54, 333-341.	1.4	14
46	<i>Deinococcus seoulensis</i> sp. nov., a bacterium isolated from sediment at Han River in Seoul, Republic of Korea. <i>Journal of Microbiology</i> , 2016, 54, 537-542.	2.8	14
47	PprM is necessary for up-regulation of katE1, encoding the major catalase of <i>Deinococcus radiodurans</i> , under unstressed culture conditions. <i>Journal of Microbiology</i> , 2016, 54, 426-431.	2.8	14
48	Serotype-Independent Protection Against Invasive Pneumococcal Infections Conferred by Live Vaccine With Igt Deletion. <i>Frontiers in Immunology</i> , 2019, 10, 1212.	4.8	14
49	Oxidative stress response of <i>Deinococcus geothermalis</i> via a cystine importer. <i>Journal of Microbiology</i> , 2017, 55, 137-146.	2.8	13
50	Vaccination With a Latch Peptide Provides Serotype-Independent Protection Against Group B <i>Streptococcus</i> Infection in Mice. <i>Journal of Infectious Diseases</i> , 2018, 217, 93-102.	4.0	13
51	Enzymatic synthesis and biological characterization of a novel mangiferin glucoside. <i>Enzyme and Microbial Technology</i> , 2020, 134, 109479.	3.2	12
52	Enhancement of neuroprotection, antioxidant capacity, and water-solubility of crocins by transglucosylation using dextransucrase under high hydrostatic pressure. <i>Enzyme and Microbial Technology</i> , 2020, 140, 109630.	3.2	12
53	Molecular characterization of pneumococcal surface protein K, a potential pneumococcal vaccine antigen. <i>Virulence</i> , 2017, 8, 875-890.	4.4	11
54	<i>Deinococcus persicinus</i> sp. nov., a radiation-resistant bacterium from soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 5077-5082.	1.7	11

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55	Analysis of HilC/D-dependent <i>invF</i> promoter expression under different culture conditions. <i>Microbial Pathogenesis</i> , 2012, 52, 359-366.	2.9	10
56	Complete genome sequence of <i>Hymenobacter swuensis</i> , an ionizing-radiation resistant bacterium isolated from mountain soil. <i>Journal of Biotechnology</i> , 2014, 178, 65-66.	3.8	10
57	Complete genome sequence of <i>Planococcus</i> sp. PAMC21323 isolated from Antarctica and its metabolic potential to detoxify pollutants. <i>Standards in Genomic Sciences</i> , 2018, 13, 31.	1.5	10
58	Effective mucosal live attenuated <i>Salmonella</i> vaccine by deleting phosphotransferase system component genes <i>ptsI</i> and <i>crr</i> . <i>Journal of Microbiology</i> , 2019, 57, 64-73.	2.8	10
59	Novel functions of peroxiredoxin Q from <i>Deinococcus radiodurans</i> R1 as a peroxidase and a molecular chaperone. <i>FEBS Letters</i> , 2019, 593, 219-229.	2.8	10
60	<i>Spirosoma taeanense</i> sp. nov., a radiation resistant bacterium isolated from a coastal sand dune. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 151-159.	1.7	10
61	Development of a Qualitative Dose Indicator for Gamma Radiation Using Lyophilized <i>Deinococcus</i> . <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1296-1300.	2.1	10
62	A Mutation in <i>tdcA</i> Attenuates the Virulence of <i>Salmonella enterica</i> Serovar Typhimurium. <i>Molecules and Cells</i> , 2010, 29, 509-518.	2.6	9
63	Truncated TALE-FP as DNA Staining Dye in a High-salt Buffer. <i>Scientific Reports</i> , 2019, 9, 17197.	3.3	9
64	A Novel Radiation-Resistant Strain of <i>Filobasidium</i> sp. Isolated from the West Sea of Korea. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 1493-1499.	2.1	9
65	<i>Deinococcus rubrus</i> sp. nov., a Bacterium Isolated from Antarctic Coastal Sea Water. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 535-541.	2.1	9
66	Roles of Outer Membrane Vesicles (OMVs) in Bacterial Virulence. <i>Journal of Bacteriology and Virology</i> , 2015, 45, 1.	0.1	8
67	<i>Deinococcus sedimenti</i> sp. nov. isolated from river sediment. <i>Journal of Microbiology</i> , 2016, 54, 802-808.	2.8	8
68	<i>Hymenobacter baengnokdamensis</i> sp. nov., Isolated from the Soil of a Crater Lake in Korea. <i>Current Microbiology</i> , 2020, 77, 4167-4173.	2.2	8
69	Characterization of humoral and cellular immune features of gamma-irradiated influenza vaccine. <i>Human Vaccines and Immunotherapeutics</i> , 2021, 17, 485-496.	3.3	8
70	Crystal structure of the AhpD-like protein DR1765 from <i>Deinococcus radiodurans</i> R1. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 444-449.	2.1	7
71	Effects of Conserved Wedge Domain Residues on DNA Binding Activity of <i>Deinococcus radiodurans</i> RecG Helicase. <i>Frontiers in Genetics</i> , 2021, 12, 634615.	2.3	7
72	<i>Hymenobacter taeanensis</i> sp. nov., radiation resistant bacterium isolated from coastal sand dune. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 1585-1593.	1.7	7

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73	<i>Deinococcus koreensis</i> sp. nov., a gamma radiation-resistant bacterium isolated from river water. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2545-2550.	1.7	7
74	Structural and Biochemical Characterization of Thioredoxin-2 from <i>Deinococcus radiodurans</i> . <i>Antioxidants</i> , 2021, 10, 1843.	5.1	7
75	Expression and delivery of tetanus toxin fragment C fused to the N-terminal domain of SipB enhances specific immune responses in mice. <i>Microbiology and Immunology</i> , 2012, 56, 595-604.	1.4	6
76	<i>Methylobacterium radiodurans</i> sp. nov., a novel radiation-resistant <i>Methylobacterium</i> . <i>Archives of Microbiology</i> , 2021, 203, 3435-3442.	2.2	5
77	Isolation and Proteomic Analysis of a <i>Chlamydomonas reinhardtii</i> Mutant with Enhanced Lipid Production by the Gamma Irradiation Method. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 2066-2075.	2.1	5
78	<i>Deinococcus irradiatissoli</i> sp. nov., isolated from gamma ray-irradiated soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 3232-3236.	1.7	5
79	<i>Deinococcus radiodurans</i> Exopolysaccharide Inhibits <i>Staphylococcus aureus</i> Biofilm Formation. <i>Frontiers in Microbiology</i> , 2021, 12, 712086.	3.5	5
80	Transcriptional Profiling of an Attenuated <i>Salmonella Typhimurium</i> Mutant Strain Under Low-oxygen Conditions using Microarray Analysis. <i>Journal of Bacteriology and Virology</i> , 2015, 45, 200.	0.1	4
81	Crystal structure of the highly radiation-inducible DinB/YfiT superfamily protein DR0053 from <i>Deinococcus radiodurans</i> R1. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 354-359.	2.1	4
82	Improved tolerance of <i>Escherichia coli</i> to oxidative stress by expressing putative response regulator homologs from Antarctic bacteria. <i>Journal of Microbiology</i> , 2020, 58, 131-141.	2.8	4
83	Atypical Bacilliredoxin AbxC Plays a Role in Responding to Oxidative Stress in Radiation-Resistant Bacterium <i>Deinococcus radiodurans</i> . <i>Antioxidants</i> , 2021, 10, 1148.	5.1	4
84	The bifidogenic effects and dental plaque deformation of non-digestible isomaltooligosaccharides synthesized by dextransucrase and alternansucrase. <i>Enzyme and Microbial Technology</i> , 2022, 153, 109955.	3.2	4
85	Molecular Characteristics of IS 1216 Carrying Multidrug Resistance Gene Cluster in Serotype III/Sequence Type 19 Group B <i>Streptococcus</i> . <i>MSphere</i> , 2021, 6, e0054321.	2.9	3
86	Enhancement of Lysine Production in Recombinant <i>Corynebacterium glutamicum</i> through Expression of <i>Deinococcus radiodurans</i> pprM and dr1558 Genes. <i>Microbiology and Biotechnology Letters</i> , 2017, 45, 271-275.	0.4	3
87	ptsI gene in the phosphotransfer system is a potential target for developing a live attenuated <i>Salmonella</i> vaccine. <i>International Journal of Molecular Medicine</i> , 2020, 45, 1327-1340.	4.0	2
88	Introduction to polysaccharides. , 2021, , 3-46.		2
89	Shelf-life extension of preservative-free hydrated feed using gamma pasteurization and its effect on growth performance of eel. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1095-1097.	2.8	1
90	Temporal regulation of <i>Salmonella</i> pathogenicity Island 1 (SPI-1) hilA by Hfq in <i>Salmonella enterica</i> serovar typhimurium. <i>Journal of the Korean Society for Applied Biological Chemistry</i> , 2015, 58, 169-172.	0.9	1

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91	Transcriptional Analysis of the <i>agB</i> within <i>Salmonella</i> Pathogenicity Island 1 (SPI1). Journal of Bacteriology and Virology, 2016, 46, 128.	0.1	1
92	<i>Deinococcus rubellus</i> sp. nov., bacteria isolated from the muscle of antarctic fish. Journal of Microbiology, 2016, 54, 796-801.	2.8	1
93	Lack of the Bacterial Phytochrome Protein Decreases <i>Deinococcus radiodurans</i> Resistance to Mitomycin C. Frontiers in Microbiology, 2021, 12, 659233.	3.5	1