

Min-Kyu Kim

List of Publications by Year in descending order

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65
papers

700
citations

567281

15
h-index

642732

23
g-index

69
all docs

69
docs citations

69
times ranked

955
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Experimental study on the floor responses of a base-isolated frame structure via shaking table tests. <i>Engineering Structures</i> , 2022, 253, 113763.	5.3	13
3	Probabilistic Seismic Demand Analysis of Pile-Supported Transmission Towers on Infinite Slopes: Exploring Machine Learning Models for Optimal Intensity Measures. , 2022, , .		1
4	<i>Hymenobacter busanensis</i> sp. nov., radiation-resistant species isolated from soil in South Korea. <i>Archives of Microbiology</i> , 2021, 203, 755-762.	2.2	4
5	<i>Spirosoma taeenense</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
6	<i>Vibrio cholerae</i> FruR facilitates binding of RNA polymerase to the <i>fru</i> promoter in the presence of fructose 1-phosphate. <i>Nucleic Acids Research</i> , 2021, 49, 1397-1410.	14.5	13
7	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
8	The Inhibitory Effects of Plant Derivate Polyphenols on the Main Protease of SARS Coronavirus 2 and Their Structure-Activity Relationship. <i>Molecules</i> , 2021, 26, 1924.	3.8	39
9	<i>Spirosoma profusum</i> sp. nov., and <i>Spirosoma validum</i> sp. nov., radiation-resistant bacteria isolated from soil in South Korea. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 1155-1164.	1.7	4
10	Lack of the Bacterial Phytochrome Protein Decreases <i>Deinococcus radiodurans</i> Resistance to Mitomycin C. <i>Frontiers in Microbiology</i> , 2021, 12, 659233.	3.5	1
11	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
12	<i>Hymenobacter taeenensis</i> sp. nov., radiation resistant bacterium isolated from coastal sand dune. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 1585-1593.	1.7	7
13	Seismic performance limit of nuclear power plant piping system with seismic isolation system considering measurement points: Low-cycle fatigue life. <i>Engineering Failure Analysis</i> , 2021, 130, 105743.	4.0	0
14	Structural and Biochemical Characterization of Thioredoxin-2 from <i>Deinococcus radiodurans</i> . <i>Antioxidants</i> , 2021, 10, 1843.	5.1	7
15	Evaluation of the Limit State of a Six-Inch Carbon Steel Pipe Elbow in Base-Isolated Nuclear Power Plants. <i>Energies</i> , 2021, 14, 8400.	3.1	1
16	<i>Deinococcus radiodurans</i> Exopolysaccharide Inhibits <i>Staphylococcus aureus</i> Biofilm Formation. <i>Frontiers in Microbiology</i> , 2021, 12, 712086.	3.5	5
17	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
18	<i>Spirosoma aureum</i> sp. nov., and <i>Hymenobacter russus</i> sp. nov., radiation-resistant bacteria in Cytophagales order isolated from soil. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 2201-2212.	1.7	4

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19	Rhodocytophaga rosea sp. nov. and Nibribacter ruber sp. nov., two radiation-resistant bacteria isolated from soil. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 2177-2185.	1.7	2
20	Hymenobacter baengnokdamensis sp. nov., Isolated from the Soil of a Crater Lake in Korea. <i>Current Microbiology</i> , 2020, 77, 4167-4173.	2.2	8
21	Ratcheting fatigue failure of a carbon steel pipe tee in a nuclear power plant using the deformation angle. <i>Engineering Failure Analysis</i> , 2020, 114, 104595.	4.0	18
22	Characterization of a novel extracellular α -amylase from <i>Ruminococcus bromii</i> ATCC 27255 with neopullulanase-like activity. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 605-614.	7.5	18
23	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
24	Development of Efficient External Multi-Hazard Risk Quantification Methodology for Nuclear Facilities. <i>Energies</i> , 2019, 12, 3925.	3.1	7
25	Logic tree approach for probabilistic typhoon wind hazard assessment. <i>Nuclear Engineering and Technology</i> , 2019, 51, 607-617.	2.3	4
26	Seismic fragility evaluation of the base-isolated nuclear power plant piping system using the failure criterion based on stress-strain. <i>Nuclear Engineering and Technology</i> , 2019, 51, 561-572.	2.3	37
27	Strain and deformation angle for a steel pipe elbow using image measurement system under in-plane cyclic loading. <i>Nuclear Engineering and Technology</i> , 2018, 50, 190-202.	2.3	18
28	<i>Deinococcus multiflagellatus</i> sp. nov., isolated from a car air-conditioning system. <i>Antonie Van Leeuwenhoek</i> , 2018, 111, 619-627.	1.7	10
29	In vitro and in vivo Inhibitory Activity of NADPH Against the AmpC β -Lactamase. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 441.	3.9	8
30	Structural and Biochemical Characterization of the Curcumin-Reducing Activity of CurA from <i>Vibrio vulnificus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10608-10616.	5.2	11
31	<i>Deinococcus lacus</i> sp. nov., a gamma radiation-resistant bacterium isolated from an artificial freshwater pond. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 1372-1377.	1.7	5
32	<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
33	<i>Deinococcus aluminii</i> sp. nov., isolated from an automobile air conditioning system. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 776-781.	1.7	7
34	A Shaking Table Test for the Evaluation of Floor Response Spectrum of Seismic Isolated NPP Structure. , 2016, , .		1
35	Ultimate Failure Criteria Evaluation of Elbow Pipe Components in Seismically Isolated NPPs. , 2016, , .		1
36	Unraveling Fungal Radiation Resistance Regulatory Networks through the Genome-Wide Transcriptome and Genetic Analyses of <i>Cryptococcus neoformans</i> . <i>MBio</i> , 2016, 7, .	4.1	46

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37	Evaluation of Long-Term Behavior by the Size of Lead Rubber Bearings. , 2016, , .		2
38	Structural and mechanistic insights into the inhibition of class C β -lactamases through the adenylylation of the nucleophilic serine. Journal of Antimicrobial Chemotherapy, 2016, 72, dkw491.	3.0	7
39	Experimental Study on the Ultimate Limit State of a Lead-Rubber Bearing. , 2016, , .		2
40	PprM is necessary for up-regulation of katE1, encoding the major catalase of <i>Deinococcus radiodurans</i> , under unstressed culture conditions. Journal of Microbiology, 2016, 54, 426-431.	2.8	14
41	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
42	Seismic Fragility Evaluation of Interface Pipes in Seismically Isolated NPPs by Using Scale Model Test. , 2015, , .		1
43	Structure of the 34 kDa F-actin-bundling protein ABP34 from <i>Dictyostelium discoideum</i> . Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1835-1849.	2.5	5
44	Structure-based investigation into the functional roles of the extended loop and substrate-recognition sites in an endo- β -1,4-galactosidase from the Antarctic springtail, <i>Cryptopygus antarcticus</i> . Proteins: Structure, Function and Bioinformatics, 2014, 82, 3217-3223.	2.6	17
45	Cyclic dipeptides from lactic acid bacteria inhibit the proliferation of pathogenic fungi. Journal of Microbiology, 2014, 52, 64-70.	2.8	48
46	In-House Zinc SAD Phasing at Cu K α Edge. Molecules and Cells, 2013, 36, 74-81.	2.6	10
47	Experimental phasing using zinc and sulfur anomalous signals measured at the zinc absorption peak. Journal of Microbiology, 2013, 51, 639-643.	2.8	0
48	Cyclic dipeptides from lactic acid bacteria inhibit proliferation of the influenza A virus. Journal of Microbiology, 2013, 51, 836-843.	2.8	51
49	The crystal structure of a novel phosphopantothenate synthetase from the hyperthermophilic archaea, <i>Thermococcus onnurineus</i> NA1. Biochemical and Biophysical Research Communications, 2013, 439, 533-538.	2.1	4
50	Structural basis for the β -lactamase activity of EstU1, a family VIII carboxylesterase. Proteins: Structure, Function and Bioinformatics, 2013, 81, 2045-2051.	2.6	34
51	Expression at 279 K, purification, crystallization and preliminary X-ray crystallographic analysis of a novel cold-active β -1,4-galactosidase from the Antarctic springtail <i>Cryptopygus antarcticus</i> . Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1007-1010.	0.7	5
52	Experimental phasing using zinc anomalous scattering. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1253-1258.	2.5	24
53	Crystallization and preliminary X-ray crystallographic analysis of the putative NADP(H)-dependent oxidoreductase YncB from <i>Vibrio vulnificus</i> . Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1098-1101.	0.7	3
54	Dissection of the Dimerization Modes in the DJ-1 Superfamily. Molecules and Cells, 2012, 33, 163-172.	2.6	13

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55	Seismic Fragility Analysis of a Condensate Storage Tank With Multiple Uncertain Degradation Scenarios. , 2012, , .		0
56	Crystallization and preliminary X-ray crystallographic analysis of the NmrA-like DDB_G0286605 protein from the social amoeba Dictyostelium discoideum. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 94-97.	0.7	0
57	Crystallization and preliminary X-ray crystallographic analysis of the short-chain dehydrogenase/reductase-type DDB_G0291732 protein from Dictyostelium discoideum. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 98-100.	0.7	0
58	Synthetic, Cyclic Voltammetric, Structural, EPR, and UV-Vis Spectroscopic Studies of Thienyl-Containing meso-A ₂ B-cor(CrV [•] O) Systems: Consideration of Three Interrelated Molecular Detection Modalities. Inorganic Chemistry, 2010, 49, 502-512.	4.0	20
59	Review of Recent Aging-Related Degradation Occurrences of Structures and Passive Components in U.S. Nuclear Power Plants. , 2009, , .		0
60	Crystal Structure of a New Type of NADPH-Dependent Quinone Oxidoreductase (QOR2) from Escherichia coli. Journal of Molecular Biology, 2008, 379, 372-384.	4.2	24
61	High resolution crystal structure of PedB: a structural basis for the classification of pediocin-like immunity proteins. BMC Structural Biology, 2007, 7, 35.	2.3	12
62	Crystal structure of the DNA-binding domain of BldD, a central regulator of aerial mycelium formation in Streptomyces coelicolor A3(2). Molecular Microbiology, 2006, 60, 1179-1193.	2.5	20
63	Crystallization and preliminary X-ray crystallographic analysis of the pediocin immunity protein (PedB) from Pediococcus pentosaceus at 1.35 Å... resolution. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1751, 205-208.	2.3	1
64	Vertical vibration analysis of soil-pile interaction systems considering the soil-pile interface behavior. KSCE Journal of Civil Engineering, 2004, 8, 221-226.	1.9	9
65	Crystallization and preliminary X-ray crystallographic analysis of the DNA-binding domain of BldD from Streptomyces coelicolor A3(2). Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1115-1117.	2.5	2