Sanguk Kim

List of Publications by Year
in descending order

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95	5,473	76326	88630
papers	citations	40 h-index	70 g-index

99	99	99	8314
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A multifunctional coreâ€“shell nanoparticle for dendritic cell-based cancer immunotherapy. Nature Nanotechnology, 2011, 6, 675-682.	31.5	470
2	OASIS 2: online application for survival analysis 2 with features for the analysis of maximal lifespan and healthspan in aging research. Oncotarget, 2016, 7, 56147-56152.	1.8	330
3	OASIS: Online Application for the Survival Analysis of Lifespan Assays Performed in Aging Research. PLoS ONE, 2011, 6, e23525.	2.5	259
4	Transmembrane glycine zippers: Physiological and pathological roles in membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14278-14283.	7.1	240
5	Predictive design of mRNA translation initiation region to control prokaryotic translation efficiency. Metabolic Engineering, 2013, 15, 67-74.	7.0	240
6	Structure of the transmembrane region of the M2 protein H+ channel. Protein Science, 2008, 10, 2241-2250.	7.6	221
7	The Closed State of a H+ Channel Helical Bundle Combining Precise Orientational and Distance Restraints from Solid State NMR. Biochemistry, 2002, 41, 13170-13177.	2.5	210
8	Feedback regulation via AMPK and HIF-1 mediates ROS-dependent longevity in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4458-67.	7.1	151
9	Creation of bladder assembloids mimicking tissue regeneration and cancer. Nature, 2020, 588, 664-669.	27.8	133
10	Transmembrane Domain Helix Packing Stabilizes Integrin Î±IIbÎ²3 in the Low Affinity State. Journal of Biological Chemistry, 2005, 280, 7294-7300.	3.4	131
11	Pivotal role of the glycine-rich TM3 helix in gating the MscS mechanosensitive channel. Nature Structural and Molecular Biology, 2005, 12, 113-119.	8.2	125
12	ArabidopsisNuclear-Encoded Plastid Transit Peptides Contain Multiple Sequence Subgroups with Distinctive Chloroplast-Targeting Sequence Motifs. Plant Cell, 2008, 20, 1603-1622.	6.6	117
13	Functional Characterization of Sequence Motifs in the Transit Peptide of Arabidopsis Small Subunit of Rubisco. Plant Physiology, 2006, 140, 466-483.	4.8	104
14	The Affinity of GXXXG Motifs in Transmembrane Helix-Helix Interactions Is Modulated by Long-range Communication. Journal of Biological Chemistry, 2004, 279, 16591-16597.	3.4	103
15	Bax Inhibitor-1 Is a pH-dependent Regulator of Ca2+ Channel Activity in the Endoplasmic Reticulum. Journal of Biological Chemistry, 2008, 283, 15946-15955.	3.4	101
16	Network-based machine learning in colorectal and bladder organoid models predicts anti-cancer drug efficacy in patients. Nature Communications, 2020, 11, 5485.	12.8	94
17	Membrane channel structure of Helicobacter pylori vacuolating toxin: Role of multiple GXXXG motifs in cylindrical channels. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5988-5991.	7.1	77
18	A limited universe of membrane protein families and folds. Protein Science, 2006, 15, 1723-1734.	7.6	77

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19	Transmembrane Helix Uniformity Examined by Spectral Mapping of Torsion Angles. Structure, 2008, 16, 787-797.	3.3	77
20	Spread of Mutant Middle East Respiratory Syndrome Coronavirus with Reduced Affinity to Human CD26 during the South Korean Outbreak. MBio, 2016, 7, e00019.	4.1	76
21	Uniformity, Ideality, and Hydrogen Bonds in Transmembrane Î±-Helices. Biophysical Journal, 2002, 83, 2084-2095.	0.5	75
22	Snorkeling Preferences Foster an Amino Acid Composition Bias in Transmembrane Helices. Journal of Molecular Biology, 2004, 339, 471-479.	4.2	74
23	A Simple Method for Modeling Transmembrane Helix Oligomers. Journal of Molecular Biology, 2003, 329, 831-840.	4.2	73
24	Dimerization of the transmembrane domain of amyloid precursor proteins and familial Alzheimer's disease mutants. BMC Neuroscience, 2008, 9, 17.	1.9	73
25	Rational Engineering of Enzyme Allosteric Regulation through Sequence Evolution Analysis. PLoS Computational Biology, 2012, 8, e1002612.	3.2	71
26	Capicua suppresses hepatocellular carcinoma progression by controlling the ETV4â€“MMP1 axis. Hepatology, 2018, 67, 2287-2301.	7.3	70
27	The Protein Interaction Network of Extracellular Vesicles Derived from Human Colorectal Cancer Cells. Journal of Proteome Research, 2012, 11, 1144-1151.	3.7	66
28	Protein localization as a principal feature of the etiology and comorbidity of genetic diseases. Molecular Systems Biology, 2011, 7, 494.	7.2	65
29	Both the Hydrophobicity and a Positively Charged Region Flanking the C-Terminal Region of the Transmembrane Domain of Signal-Anchored Proteins Play Critical Roles in Determining Their Targeting Specificity to the Endoplasmic Reticulum or Endosymbiotic Organelles inArabidopsisCells. Plant Cell, 2011, 23, 1588-1607.	6.6	63
30	Evolutionary conservation in multiple faces of protein interaction. Proteins: Structure, Function and Bioinformatics, 2009, 77, 14-25.	2.6	60
31	Engineering a de novo internal disulfide bridge to improve the thermal stability of xylanase from Bacillus stearothermophilus No. 236. Journal of Biotechnology, 2007, 127, 300-309.	3.8	59
32	Predictive combinatorial design of mRNA translation initiation regions for systematic optimization of gene expression levels. Scientific Reports, 2014, 4, 4515.	3.3	59
33	Rewiring of PDZ Domain-Ligand Interaction Network Contributed to Eukaryotic Evolution. PLoS Genetics, 2012, 8, e1002510.	3.5	58
34	Single-cell RNA sequencing identifies shared differentiation paths of mouse thymic innate T cells. Nature Communications, 2020, 11, 4367.	12.8	56
35	Network-based machine learning approach to predict immunotherapy response in cancer patients. Nature Communications, 2022, 13, .	12.8	56
36	Network rewiring is an important mechanism of gene essentiality change. Scientific Reports, 2012, 2, 900.	3.3	52

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37	Changes in Hepatic Gene Expression upon Oral Administration of Taurine-Conjugated Ursodeoxycholic Acid in ob/ob Mice. PLoS ONE, 2010, 5, e13858.	2.5	47
38	Janus Model of The Na,K-ATPase Î²-Subunit Transmembrane Domain: Distinct Faces Mediate Î±/Î² Assembly and Î²-Î² Homo-oligomerization. Journal of Molecular Biology, 2007, 365, 706-714.	4.2	46
39	Molecular Evolution of Protein Conformational Changes Revealed by a Network of Evolutionarily Coupled Residues. Molecular Biology and Evolution, 2011, 28, 2675-2685.	8.9	45
40	Structural differences between thermophilic and mesophilic membrane proteins. Protein Science, 2012, 21, 1746-1753.	7.6	45
41	Phenotypic Characterization of Peripheral T Cells and Their Dynamics in Scrub Typhus Patients. PLoS Neglected Tropical Diseases, 2012, 6, e1789.	3.0	44
42	Expression of the Novel Wheat Gene TM20 Confers Enhanced Cadmium Tolerance to Bakers' Yeast. Journal of Biological Chemistry, 2008, 283, 15893-15902.	3.4	42
43	Genome-Based Construction of the Metabolic Pathways ofOrientia tsutsugamushiand Comparative Analysis within the Rickettsiales Order. Comparative and Functional Genomics, 2008, 2008, 1-14.	2.0	42
44	Transmembrane Domain of Myelin Protein Zero Can Form Dimers:â€‰ Possible Implications for Myelin Construction. Biochemistry, 2007, 46, 12164-12173.	2.5	36
45	RNA helicase HEL-1 promotes longevity by specifically activating DAF-16/FOXO transcription factor signaling in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4246-55.	7.1	34
46	Bioinformatic approaches for the structure and function of membrane proteins. BMB Reports, 2009, 42, 697-704.	2.4	32
47	Bax Inhibitor 1 Increases Cell Adhesion through Actin Polymerization: Involvement of Calcium and Actin Binding. Molecular and Cellular Biology, 2010, 30, 1800-1813.	2.3	29
48	Subtype-specific roles of phospholipase C-Î² via differential interactions with PDZ domain proteins. Advances in Enzyme Regulation, 2011, 51, 138-151.	2.6	29
49	Common occurrence of internal repeat symmetry in membrane proteins. Proteins: Structure, Function and Bioinformatics, 2008, 71, 68-80.	2.6	28
50	PDZ Domain-containing 1 (PDZK1) Protein Regulates Phospholipase C-Î²3 (PLC-Î²3)-specific Activation of Somatostatin by Forming a Ternary Complex with PLC-Î²3 and Somatostatin Receptors. Journal of Biological Chemistry, 2012, 287, 21012-21024.	3.4	27
51	Global gene expression profile of Orientia tsutsugamushi. Proteomics, 2010, 10, 1699-1715.	2.2	26
52	Complete Cross-Validation andR-Factor Calculation of a Solid-State NMR Derived Structure. Journal of the American Chemical Society, 2001, 123, 7292-7298.	13.7	25
53	Evolutionary history of human disease genes reveals phenotypic connections and comorbidity among genetic diseases. Scientific Reports, 2012, 2, 757.	3.3	25
54	Role of Amphipathic Helix of a Herpesviral Protein in Membrane Deformation and T Cell Receptor Downregulation. PLoS Pathogens, 2008, 4, e1000209.	4.7	24

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55	Self-association of the Transmembrane Domain of an Anthrax Toxin Receptor. Journal of Molecular Biology, 2006, 360, 145-156.	4.2	23
56	Role of BI-1 (TEGT)-mediated ERK1/2 activation in mitochondria-mediated apoptosis and splenomegaly in BI-1 transgenic mice. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 876-888.	4.1	23
57	Functional analysis of dicer-2 missense mutations in the siRNA pathway of Drosophila. Biochemical and Biophysical Research Communications, 2008, 371, 525-530.	2.1	22
58	A Model of the Closed Form of the Nicotinic Acetylcholine Receptor M2 Channel Pore. Biophysical Journal, 2004, 87, 792-799.	0.5	20
59	Investigation of Pathogenic Genes in Peri-Implantitis from Implant Clustering Failure Patients: A Whole-Exome Sequencing Pilot Study. PLoS ONE, 2014, 9, e99360.	2.5	20
60	Association and functional relevance of E237G, a polymorphism of the high-affinity immunoglobulin E-receptor ? chain gene, to airway hyper-responsiveness. Clinical and Experimental Allergy, 2007, 37, 592-598.	2.9	19
61	Epigenetic regulation of mammalian Hedgehog signaling to the stroma determines the molecular subtype of bladder cancer. ELife, 2019, 8, .	6.0	19
62	Construction of Functional Interaction Networks through Consensus Localization Predictions of the Human Proteome. Journal of Proteome Research, 2009, 8, 3367-3376.	3.7	18
63	Genetic Investigation of Bisphosphonate-Related Osteonecrosis of Jaw (BRONJ) via Whole Exome Sequencing and Bioinformatics. PLoS ONE, 2015, 10, e0118084.	2.5	17
64	Capicua restricts cancer stem cell-like properties in breast cancer cells. Oncogene, 2020, 39, 3489-3506.	5.9	17
65	Discovery of Cellular Proteins Required for the Early Steps of HCV Infection Using Integrative Genomics. PLoS ONE, 2013, 8, e60333.	2.5	17
66	Integration of Evolutionary Features for the Identification of Functionally Important Residues in Major Facilitator Superfamily Transporters. PLoS Computational Biology, 2009, 5, e1000522.	3.2	16
67	Linear Motif-Mediated Interactions Have Contributed to the Evolution of Modularity in Complex Protein Interaction Networks. PLoS Computational Biology, 2014, 10, e1003881.	3.2	16
68	Capicua suppresses colorectal cancer progression via repression of ETV4 expression. Cancer Cell International, 2020, 20, 42.	4.1	16
69	Network Clustering Revealed the Systemic Alterations of Mitochondrial Protein Expression. PLoS Computational Biology, 2011, 7, e1002093.	3.2	14
70	Spatial and functional organization of mitochondrial protein network. Scientific Reports, 2013, 3, 1403.	3.3	14
71	2D solid state NMR spectral simulation of 310, Î±, and Ï€-helices. Journal of Magnetic Resonance, 2004, 168, 187-193.	2.1	13
72	A novel role for Gadd45Î± in base excision repair: Modulation of APE1 activity by the direct interaction of Gadd45Î± with PCNA. Biochemical and Biophysical Research Communications, 2013, 434, 185-190.	2.1	13

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73	Divergence of Noncoding Regulatory Elements Explains Geneâ€“Phenotype Differences between Human and Mouse Orthologous Genes. Molecular Biology and Evolution, 2018, 35, 1653-1667.	8.9	12
74	Tetrahydrobiopterin enhances mitochondrial biogenesis and cardiac contractility via stimulation of PGC1Î± signaling. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 165524.	3.8	12
75	Evolutionary coupling analysis identifies the impact of disease-associated variants at less-conserved sites. Nucleic Acids Research, 2019, 47, e94-e94.	14.5	11
76	Phylogenetic analysis of <scp>ABCG</scp> subfamily proteins in plants: functional clustering and coevolution with <scp>ABCGs</scp> of pathogens. Physiologia Plantarum, 2021, 172, 1422-1438.	5.2	11
77	MON-2, a Golgi protein, mediates autophagy-dependent longevity in Caenorhabditis elegans. Science Advances, 2021, 7, eabj8156.	10.3	11
78	March2 is required for head formation by mediating Dishevelled degradation in concert with Dapper1. Development (Cambridge), 2018, 145, .	2.5	10
79	KINâ€4/MAST kinase promotes PTENâ€mediated longevity of Caenorhabditis elegans via binding through a PDZ domain. Aging Cell, 2019, 18, e12906.	6.7	10
80	ConPlex: a server for the evolutionary conservation analysis of protein complex structures. Nucleic Acids Research, 2010, 38, W450-W456.	14.5	9
81	Rampant Exchange of the Structure and Function of Extramembrane Domains between Membrane and Water Soluble Proteins. PLoS Computational Biology, 2013, 9, e1002997.	3.2	9
82	Computational Design of Binding Proteins to EGFR Domain II. PLoS ONE, 2014, 9, e92513.	2.5	9
83	Metazoans evolved by taking domains from soluble proteins to expand intercellular communication network. Scientific Reports, 2015, 5, 9576.	3.3	8
84	Network Modules of the Cross-Species Genotype-Phenotype Map Reflect the Clinical Severity of Human Diseases. PLoS ONE, 2015, 10, e0136300.	2.5	8
85	Exomic and transcriptomic alterations of hereditary gingival fibromatosis. Oral Diseases, 2019, 25, 1374-1383.	3.0	6
86	Evolutionary rewiring of regulatory networks contributes to phenotypic differences between human and mouse orthologous genes. Nucleic Acids Research, 2022, 50, 1849-1863.	14.5	6
87	Constitutive activation of T cells by Î²2-herpesviral GPCR through the interaction with cellular CXCR4. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1-11.	4.1	5
88	Variants at potential loci associated with Sjogren's syndrome in Koreans: A genetic association study. Clinical Immunology, 2019, 207, 79-86.	3.2	5
89	Pyrilamine inhibits nicotine-induced catecholamine secretion. Neurochemistry International, 2014, 74, 42-45.	3.8	4
90	Energy metabolism and whole-exome sequencing-based analysis of Sasang constitution: a pilot study. Integrative Medicine Research, 2017, 6, 165-178.	1.8	4

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91	The mechanistic insight of a specific interaction between 15d-Prostaglandin-J2 and eIF4A suggests an evolutionary conserved role across species. Biology Open, 2018, 7, .	1.2	4
92	Protein design by fusion: implications for protein structure prediction and evolution. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2451-2460.	2.5	3
93	Link clustering explains non-central and contextually essential genes in protein interaction networks. Scientific Reports, 2019, 9, 11672.	3.3	2
94	Domain-mediated interactions for protein subfamily identification. Scientific Reports, 2020, 10, 264.	3.3	2
95	The implication of holocytochrome c synthase mutation in Korean familial hypoplastic amelogenesis imperfecta. Clinical Oral Investigations, 2022, 26, 4487-4498.	3.0	1