

# Pan-Jun Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6859546/publications.pdf>

Version: 2024-02-01

31  
papers

1,307  
citations

516215

16  
h-index

454577

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical properties of sampled networks. <i>Physical Review E</i> , 2006, 73, 016102.	0.8	276
2	Global metabolic interaction network of the human gut microbiota for context-specific community-scale analysis. <i>Nature Communications</i> , 2017, 8, 15393.	5.8	216
3	Metabolite essentiality elucidates robustness of <i>Escherichia coli</i> metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13638-13642.	3.3	122
4	Metabolic network reconstruction and genome-scale model of butanol-producing strain <i>Clostridium beijerinckii</i> NCIMB 8052. <i>BMC Systems Biology</i> , 2011, 5, 130.	3.0	95
5	Accomplishments in genome-scale <i>in silico</i> modeling for industrial and medical biotechnology. <i>Biotechnology Journal</i> , 2009, 4, 1653-1670.	1.8	77
6	<i>Halomonas sulfidaeris</i> -dominated microbial community inhabits a 1.8-km-deep subsurface Cambrian sandstone reservoir. <i>Environmental Microbiology</i> , 2014, 16, 1695-1708.	1.8	52
7	Pattern formation in a two-dimensional array of oscillators with phase-shifted coupling. <i>Physical Review E</i> , 2004, 70, 065201.	0.8	47
8	Googling Social Interactions: Web Search Engine Based Social Network Construction. <i>PLoS ONE</i> , 2010, 5, e11233.	1.1	47
9	Genetic Co-Occurrence Network across Sequenced Microbes. <i>PLoS Computational Biology</i> , 2011, 7, e1002340.	1.5	43
10	Fumarate-Mediated Persistence of <i>Escherichia coli</i> against Antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2232-2240.	1.4	37
11	Reliability of rank order in sampled networks. <i>European Physical Journal B</i> , 2007, 55, 109-114.	0.6	36
12	Kernel Architecture of the Genetic Circuitry of the <i>Arabidopsis</i> Circadian System. <i>PLoS Computational Biology</i> , 2016, 12, e1004748.	1.5	30
13	Centralized Modularity of N-Linked Glycosylation Pathways in Mammalian Cells. <i>PLoS ONE</i> , 2009, 4, e7317.	1.1	29
14	Metabolic modeling with Big Data and the gut microbiome. <i>Applied &amp; Translational Genomics</i> , 2016, 10, 10-15.	2.1	28
15	Uncovering the Nutritional Landscape of Food. <i>PLoS ONE</i> , 2015, 10, e0118697.	1.1	22
16	Spatio-temporal dynamics in the origin of genetic information. <i>Physica D: Nonlinear Phenomena</i> , 2005, 203, 88-99.	1.3	21
17	Inverse correlation between longevity and developmental rate among wild <i>C. elegans</i> strains. <i>Aging</i> , 2016, 8, 986-994.	1.4	17
18	Global organization of protein complexome in the yeast <i>Saccharomyces cerevisiae</i> . <i>BMC Systems Biology</i> , 2011, 5, 126.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Multi-study Integration of Brain Cancer Transcriptomes Reveals Organ-Level Molecular Signatures. PLoS Computational Biology, 2013, 9, e1003148.	1.5	16
20	Nutritionally recommended food for semi- to strict vegetarian diets based on large-scale nutrient composition data. Scientific Reports, 2018, 8, 4344.	1.6	16
21	Waveforms of molecular oscillations reveal circadian timekeeping mechanisms. Communications Biology, 2018, 1, 207.	2.0	12
22	Large-scale metabolic interaction network of the mouse and human gut microbiota. Scientific Data, 2020, 7, 204.	2.4	12
23	Macroscopic Kinetic Effect of Cell-to-Cell Variation in Biochemical Reactions. Physical Review Letters, 2010, 104, 148103.	2.9	11
24	Enhanced hexose fermentation by <i>Saccharomyces cerevisiae</i> through integration of stoichiometric modeling and genetic screening. Journal of Biotechnology, 2015, 194, 48-57.	1.9	9
25	Anatomy of Scientific Evolution. PLoS ONE, 2015, 10, e0117388.	1.1	7
26	Cost-effective circadian mechanism: rhythmic degradation of circadian proteins spontaneously emerges without rhythmic post-translational regulation. Science, 2021, 24, 102726.	1.9	6
27	System identification of the Arabidopsis plant circadian system. Journal of the Korean Physical Society, 2015, 66, 700-712.	0.3	2
28	Backward simulation for inferring hidden biomolecular kinetic profiles. STAR Protocols, 2021, 2, 100958.	0.5	2
29	Emergence of chaotic itinerancy in simple ecological systems. Physical Review E, 2007, 76, 065201.	0.8	1
30	Modeling and control design of plant circadian system for flowering time in Arabidopsis. , 2014, , .		1
31	Systems Biology: Communication between Physics and Biology. Physics and High Technology, 2014, 23, 10.	0.1	0