

# Boon Chong Goh

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

907  
citations

623734

14  
h-index

677142

22  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulations of large macromolecular complexes. <i>Current Opinion in Structural Biology</i> , 2015, 31, 64-74.	5.7	347
2	Structural determinants for peptide-bond formation by asparaginyl ligases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11737-11746.	7.1	81
3	All-Atom Molecular Dynamics of Virus Capsids as Drug Targets. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1836-1844.	4.6	73
4	Computational Methodologies for Real-Space Structural Refinement of Large Macromolecular Complexes. <i>Annual Review of Biophysics</i> , 2016, 45, 253-278.	10.0	67
5	Allosteric pyruvate kinase-based $\alpha$ -oligic gate synergistically senses energy and sugar levels in <i>Mycobacterium tuberculosis</i> . <i>Nature Communications</i> , 2017, 8, 1986.	12.8	49
6	Atomic detail visualization of photosynthetic membranes with GPU-accelerated ray tracing. <i>Parallel Computing</i> , 2016, 55, 17-27.	2.1	37
7	Atomic Modeling of an Immature Retroviral Lattice Using Molecular Dynamics and Mutagenesis. <i>Structure</i> , 2015, 23, 1414-1425.	3.3	35
8	Molecular Mechanisms of Inhibition of Influenza by Surfactant Protein D Revealed by Large-Scale Molecular Dynamics Simulation. <i>Biochemistry</i> , 2013, 52, 8527-8538.	2.5	30
9	Turning an Asparaginyl Endopeptidase into a Peptide Ligase. <i>ACS Catalysis</i> , 2020, 10, 8825-8834.	11.2	29
10	Elucidation of Lipid Binding Sites on Lung Surfactant Protein A Using X-ray Crystallography, Mutagenesis, and Molecular Dynamics Simulations. <i>Biochemistry</i> , 2016, 55, 3692-3701.	2.5	25
11	Computational de novo design of antibodies binding to a peptide with high affinity. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1331-1342.	3.3	25
12	Length of encapsidated cargo impacts stability and structure of <i>in vitro</i> assembled alphavirus core-like particles. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 484003.	1.8	19
13	Engineered Lysins With Customized Lytic Activities Against Enterococci and Staphylococci. <i>Frontiers in Microbiology</i> , 2020, 11, 574739.	3.5	18
14	All-Atom MD Simulations of the HBV Capsid Complexed with AT130 Reveal Secondary and Tertiary Structural Changes and Mechanisms of Allostery. <i>Viruses</i> , 2021, 13, 564.	3.3	15
15	Contributions of Charged Residues in Structurally Dynamic Capsid Surface Loops to Rous Sarcoma Virus Assembly. <i>Journal of Virology</i> , 2016, 90, 5700-5714.	3.4	12
16	Novel Phage Lysin Abp013 against <i>Acinetobacter baumannii</i> . <i>Antibiotics</i> , 2022, 11, 169.	3.7	11
17	Crystal structure of the periplasmic sensor domain of histidine kinase VbrK suggests indirect sensing of $\beta$ -lactam antibiotics. <i>Journal of Structural Biology</i> , 2020, 212, 107610.	2.8	7
18	The mechanism of antiparallel $\beta$ -sheet formation based on conditioned self-avoiding walk. <i>European Physical Journal E</i> , 2012, 35, 9704.	1.6	6

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19	Structural Mimicry of the Dengue Virus Envelope Glycoprotein Revealed by the Crystallographic Study of an Idiotype–Anti-idiotype Fab Complex. <i>Journal of Virology</i> , 2017, 91, .	3.4	6
20	<i>Cutibacterium acnes</i> : Much ado about maybe nothing much. <i>Experimental Dermatology</i> , 2021, 30, 1471-1476.	2.9	6
21	The SiaABC threonine phosphorylation pathway controls biofilm formation in response to carbon availability in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2020, 15, e0241019.	2.5	6
22	Crystal structure and functional analysis of mycobacterial erythromycin resistance methyltransferase Erm38 reveals its RNA-binding site. <i>Journal of Biological Chemistry</i> , 2022, 298, 101571.	3.4	2
23	Mechanism of Interaction Between Lung Surfactant Protein-D and Influenza A Virus Hemagglutinin. <i>Biophysical Journal</i> , 2012, 102, 63a.	0.5	0
24	Effect of Two Point Mutations in Lung Surfactant Protein-D on Enhancing its Inhibition Activity Against Influenza a Virus. <i>Biophysical Journal</i> , 2013, 104, 556a.	0.5	0
25	Unraveling the Dual Role of Surfactant Protein a at Atomistic Detail. <i>Biophysical Journal</i> , 2015, 108, 255a-256a.	0.5	0
26	de novo Design and in silico Optimization of Antibody-Like Binders Targeting Ebola Viral Antigen. <i>Biophysical Journal</i> , 2016, 110, 537a.	0.5	0
27	Elucidating the Structure, Dynamics and Functions of an Immature Retrovirus in Atomistic Detail. <i>Biophysical Journal</i> , 2016, 110, 383a.	0.5	0
28	inPhocus: Current State and Challenges of Phage Research in Singapore. <i>Phage</i> , 2022, 3, 6-11.	1.7	0