

# Byungchan Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11024748/publications.pdf>

Version: 2024-02-01

11  
papers

2,885  
citations

840776

11  
h-index

1281871

11  
g-index

11  
all docs

11  
docs citations

11  
times ranked

3246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate and Reliable Prediction of Relative Ligand Binding Potency in Prospective Drug Discovery by Way of a Modern Free-Energy Calculation Protocol and Force Field. <i>Journal of the American Chemical Society</i> , 2015, 137, 2695-2703.	13.7	931
2	Replica exchange with solute tempering: A method for sampling biological systems in explicit water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13749-13754.	7.1	634
3	Motifs for molecular recognition exploiting hydrophobic enclosure in protein-ligand binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 808-813.	7.1	633
4	Modeling Local Structural Rearrangements Using FEP/REST: Application to Relative Binding Affinity Predictions of CDK2 Inhibitors. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1282-1293.	5.3	179
5	Thermodynamic analysis of water molecules at the surface of proteins and applications to binding site prediction and characterization. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 871-883.	2.6	118
6	Replica Exchange with Solute Tempering: Efficiency in Large Scale Systems. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5405-5410.	2.6	103
7	Accurate Modeling of Scaffold Hopping Transformations in Drug Discovery. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 42-54.	5.3	103
8	Efficient Simulation Method for Polarizable Protein Force Fields: Application to the Simulation of BPTI in Liquid Water. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 169-180.	5.3	68
9	Structure and Dynamics of the Solvation of Bovine Pancreatic Trypsin Inhibitor in Explicit Water: A Comparative Study of the Effects of Solvent and Protein Polarizability. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16529-16538.	2.6	55
10	Serial Replica Exchange. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1416-1423.	2.6	35
11	Docking and Free Energy Perturbation Studies of Ligand Binding in the Kappa Opioid Receptor. <i>Journal of Physical Chemistry B</i> , 2015, 119, 824-835.	2.6	26