Kayla G Sprenger

List of Publications by Year in Descending Order

19 papers	386 citations	10 h-index	19 g-index
20 ext. papers	509 ext. citations	4.8 avg, IF	4.06 L-index

#	Paper	IF	Citations
19	Multiscale affinity maturation simulations to elicit broadly neutralizing antibodies against HIV.. *PLoS Computational Biology*, **2022**, 18, e1009391	5	0
18	Direct Evidence for Aligned Binding of Cellulase Enzymes to Cellulose Surfaces. *Journal of Physical Chemistry Letters*, **2021**, 12, 10684-10688	6.4	0
17	Roadmap on biology in time varying environments. *Physical Biology*, **2021**, 18,	3	2
16	Sequence-Structure-Binding Relationships Reveal Adhesion Behavior of the Car9 Solid-Binding Peptide: An Integrated Experimental and Simulation Study. *Journal of the American Chemical Society*, **2020**, 142, 2355-2363	16.4	11
15	Optimizing immunization protocols to elicit broadly neutralizing antibodies. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 20077-20087	11.5	14
14	Molecular Driving Forces in Peptide Adsorption to Metal Oxide Surfaces. *Langmuir*, **2019**, 35, 5911-5920	4	18
13	Essential slow degrees of freedom in protein-surface simulations: A metadynamics investigation. *Biochemical and Biophysical Research Communications*, **2018**, 498, 274-281	3.4	22
12	Investigating the Role of Phosphorylation in the Binding of Silaffin Peptide R5 to Silica with Molecular Dynamics Simulations. *Langmuir*, **2018**, 34, 1199-1207	4	23
11	Inhibition of the Exoglucanase Cel7A by a Douglas-Fir-Condensed Tannin. *Journal of Physical Chemistry B*, **2018**, 122, 8665-8674	3.4	1
10	Effect of an ionic liquid/air Interface on the structure and dynamics of amphiphilic peptides. *Journal of Molecular Liquids*, **2017**, 236, 404-413	6	8
9	Determining dominant driving forces affecting controlled protein release from polymeric nanoparticles. *Biointerphases*, **2017**, 12, 02D412	1.8	4
8	Mechanism of Competitive Inhibition and Destabilization of Acidothermus cellulolyticus Endoglucanase 1 by Ionic Liquids. *Journal of Physical Chemistry B*, **2017**, 121, 10793-10803	3.4	19
7	Elucidating sequence and solvent specific design targets to protect and stabilize enzymes for biocatalysis in ionic liquids. *Physical Chemistry Chemical Physics*, **2017**, 19, 17426-17433	3.6	20
6	Using Molecular Simulation to Study Biocatalysis in Ionic Liquids. *Methods in Enzymology*, **2016**, 577, 419-41	1.7	8
5	Probing How Defects in Self-assembled Monolayers Affect Peptide Adsorption with Molecular Simulation. *Molecular Modeling and Simulation*, **2016**, 21-35		4
4	Strong Electrostatic Interactions Lead to Entropically Favorable Binding of Peptides to Charged Surfaces. *Langmuir*, **2016**, 32, 5690-701	4	31
3	Lytic Polysaccharide Monooxygenases ScLPMO10B and ScLPMO10C Are Stable in Ionic Liquids As Determined by Molecular Simulations. *Journal of Physical Chemistry B*, **2016**, 120, 3863-72	3.4	15

2	The general AMBER force field (GAFF) can accurately predict thermodynamic and transport properties of many ionic liquids. *Journal of Physical Chemistry B*, **2015**, 119, 5882-95	3.4	185
1	Multiscale affinity maturation simulations to elicit broadly neutralizing antibodies against HIV		1