William Sheffler

List of Publications by Citations

24 papers	3,731 citations	19 h-index	27 g-index
27 ext. papers	4,708 ext. citations	27.5 avg, IF	4.76 L-index

#	Paper	IF	Citations
24	ROSETTA3: an object-oriented software suite for the simulation and design of macromolecules. *Methods in Enzymology*, **2011**, 487, 545-74	1.7	1216
23	Computational design of self-assembling protein nanomaterials with atomic level accuracy. *Science*, **2012**, 336, 1171-4	33.3	473
22	Accurate design of co-assembling multi-component protein nanomaterials. *Nature*, **2014**, 510, 103-8	50.4	403
21	Accurate design of megadalton-scale two-component icosahedral protein complexes. *Science*, **2016** , 353, 389-94	33.3	322
20	Design of a hyperstable 60-subunit protein dodecahedron. [corrected]. *Nature*, **2016**, 535, 136-9	50.4	243
19	Induction of Potent Neutralizing Antibody Responses by a Designed Protein Nanoparticle Vaccine for Respiratory Syncytial Virus. *Cell*, **2019**, 176, 1420-1431.e17	56.2	190
18	De novo design of a fluorescence-activating β-barrel. *Nature*, **2018**, 561, 485-491	50.4	156
17	Accurate computational design of multipass transmembrane proteins. *Science*, **2018**, 359, 1042-1046	33.3	93
16	Computational design of trimeric influenza-neutralizing proteins targeting the hemagglutinin receptor binding site. *Nature Biotechnology*, **2017**, 35, 667-671	44.5	84
15	Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. *Nature Communications*, **2019**, 10, 4272	17.4	80
14	Computational design of self-assembling cyclic protein homo-oligomers. *Nature Chemistry*, **2017**, 9, 353-360	17.6	78
13	De novo design of self-assembling helical protein filaments. *Science*, **2018**, 362, 705-709	33.3	78
12	Efficient flexible backbone protein-protein docking for challenging targets. *Bioinformatics*, **2018**, 34, 3461-3469	7.2	57
11	Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. *ELife*, **2020**, 9,	8.9	51
10	Confirmation of intersubunit connectivity and topology of designed protein complexes by native MS. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1268-1273	11.5	40
9	Designed proteins assemble antibodies into modular nanocages. *Science*, **2021**, 372,	33.3	35
8	RosettaHoles2: a volumetric packing measure for protein structure refinement and validation. *Protein Science*, **2010**, 19, 1991-5	6.3	33

List of Publications

7	Computational design of a homotrimeric metalloprotein with a trisbipyridyl core. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 15012-15017	11.5	33
6	Design of biologically active binary protein 2D materials. *Nature*, **2021**, 589, 468-473	50.4	33
5	Design of multi-scale protein complexes by hierarchical building block fusion. *Nature Communications*, **2021**, 12, 2294	17.4	14
4	Tailored Design of Protein Nanoparticle Scaffolds for Multivalent Presentation of Viral Glycoprotein Antigens		7
3	Designed proteins assemble antibodies into modular nanocages **2020**,		5
2	Hierarchical design of multi-scale protein complexes by combinatorial assembly of oligomeric helical bundle and repeat protein building blocks		4
1	Computational design of mechanically coupled axle-rotor protein assemblies.. *Science*, **2022**, 376, 383-390	55.3	2