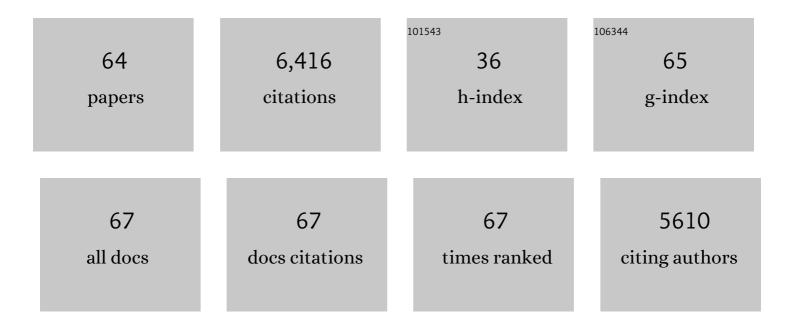
## F Akif Tezcan

List of Publications by Year in descending order

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F AKIE TEZCAN

#	Article	IF	CITATIONS
1	Nitrogenase MoFe-Protein at 1.16 A Resolution: A Central Ligand in the FeMo-Cofactor. Science, 2002, 297, 1696-1700.	12.6	1,041
2	Structural basis of biological nitrogen fixation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 971-984.	3.4	852
3	Metal-directed, chemically tunable assembly of one-, two- and three-dimensional crystalline protein arrays. Nature Chemistry, 2012, 4, 375-382.	13.6	332
4	Effects of Ligation and Folding on Reduction Potentials of Heme Proteins. Journal of the American Chemical Society, 1998, 120, 13383-13388.	13.7	276
5	Self-assembly of coherently dynamic, auxetic, two-dimensional protein crystals. Nature, 2016, 533, 369-373.	27.8	255
6	Metal-Directed Protein Self-Assembly. Accounts of Chemical Research, 2010, 43, 661-672.	15.6	243
7	A designed supramolecular protein assembly with in vivo enzymatic activity. Science, 2014, 346, 1525-1528.	12.6	236
8	Nitrogenase Complexes: Multiple Docking Sites for a Nucleotide Switch Protein. Science, 2005, 309, 1377-1380.	12.6	216
9	A Metal Organic Framework with Spherical Protein Nodes: Rational Chemical Design of 3D Protein Crystals. Journal of the American Chemical Society, 2015, 137, 11598-11601.	13.7	170
10	Re-engineering protein interfaces yields copper-inducible ferritin cage assembly. Nature Chemical Biology, 2013, 9, 169-176.	8.0	169
11	Electron Transfer in Nitrogenase. Chemical Reviews, 2020, 120, 5158-5193.	47.7	150
12	Hyperexpandable, self-healing macromolecular crystals with integrated polymer networks. Nature, 2018, 557, 86-91.	27.8	130
13	Metal templated design of protein interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1827-1832.	7.1	125
14	Protein Assembly by Design. Chemical Reviews, 2021, 121, 13701-13796.	47.7	123
15	Controlling Proteinâ~'Protein Interactions through Metal Coordination:  Assembly of a 16-Helix Bundle Protein. Journal of the American Chemical Society, 2007, 129, 13374-13375.	13.7	122
16	Synthetic Modularity of Protein–Metal–Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 8160-8166.	13.7	105
17	Exceptionally stable, redox-active supramolecular protein assemblies with emergent properties. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2897-2902.	7.1	103
18	Constructing protein polyhedra via orthogonal chemical interactions. Nature, 2020, 578, 172-176.	27.8	100

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19	Designed, Helical Protein Nanotubes with Variable Diameters from a Single Building Block. Journal of the American Chemical Society, 2015, 137, 10468-10471.	13.7	86
20	Interfacial metal coordination in engineered protein and peptide assemblies. Current Opinion in Chemical Biology, 2014, 19, 42-49.	6.1	83
21	Metal-Mediated Self-Assembly of Protein Superstructures: Influence of Secondary Interactions on Protein Oligomerization and Aggregation. Journal of the American Chemical Society, 2008, 130, 6082-6084.	13.7	74
22	Control of Protein Oligomerization Symmetry by Metal Coordination: <i>C</i> <sub>2</sub> and <i>C</i> <sub>3</sub> Symmetrical Assemblies through Cu <sup>II</sup> and Ni <sup>II</sup> Coordination. Inorganic Chemistry, 2009, 48, 2726-2728.	4.0	73
23	Design and Construction of Functional Supramolecular Metalloprotein Assemblies. Accounts of Chemical Research, 2019, 52, 345-355.	15.6	73
24	ATP- and Ironâ^'Protein-Independent Activation of Nitrogenase Catalysis by Light. Journal of the American Chemical Society, 2010, 132, 13672-13674.	13.7	66
25	A Superprotein Triangle Driven by Nickel(II) Coordination: Exploiting Non-Natural Metal Ligands in Protein Self-Assembly. Journal of the American Chemical Society, 2009, 131, 9136-9137.	13.7	64
26	Metals in Protein–Protein Interfaces. Annual Review of Biophysics, 2014, 43, 409-431.	10.0	63
27	Evolution of Metal Selectivity in Templated Protein Interfaces. Journal of the American Chemical Society, 2010, 132, 8610-8617.	13.7	61
28	An Exceptionally Stable Metal–Organic Framework Constructed from Chelate-Based Metal–Organic Polyhedra. Journal of the American Chemical Society, 2020, 142, 6907-6912.	13.7	58
29	An efficient, step-economical strategy for the design of functional metalloproteins. Nature Chemistry, 2019, 11, 434-441.	13.6	57
30	ATP-Uncoupled, Six-Electron Photoreduction of Hydrogen Cyanide to Methane by the Molybdenum–Iron Protein. Journal of the American Chemical Society, 2012, 134, 8416-8419.	13.7	55
31	Stability and Folding Kinetics of Structurally Characterized Cytochrome c-b562,. Biochemistry, 2006, 45, 10504-10511.	2.5	54
32	Structural Characterization of a Microperoxidase Inside a Metalâ€Đirected Protein Cage. Angewandte Chemie - International Edition, 2010, 49, 7014-7018.	13.8	51
33	Engineering the entropy-driven free-energy landscape of a dynamic nanoporous protein assembly. Nature Chemistry, 2018, 10, 732-739.	13.6	51
34	Structural Evidence for Asymmetrical Nucleotide Interactions in Nitrogenase. Journal of the American Chemical Society, 2015, 137, 146-149.	13.7	44
35	Tyrosine-Coordinated P-Cluster in <i>G. diazotrophicus</i> Nitrogenase: Evidence for the Importance of O-Based Ligands in Conformationally Gated Electron Transfer. Journal of the American Chemical Society, 2016, 138, 10124-10127.	13.7	40
36	De Novo Design of an Allosteric Metalloprotein Assembly with Strained Disulfide Bonds. Journal of the American Chemical Society, 2016, 138, 13163-13166.	13.7	40

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37	Importance of Scaffold Flexibility/Rigidity in the Design and Directed Evolution of Artificial Metallo-β-lactamases. Journal of the American Chemical Society, 2017, 139, 16772-16779.	13.7	39
38	Expanding the utility of proteins as platforms for coordination chemistry. Coordination Chemistry Reviews, 2011, 255, 790-803.	18.8	36
39	In Vitro and Cellular Self-Assembly of a Zn-Binding Protein Cryptand via Templated Disulfide Bonds. Journal of the American Chemical Society, 2013, 135, 12013-12022.	13.7	35
40	Porous protein frameworks with unsaturated metal centers in sterically encumbered coordination sites. Chemical Communications, 2011, 47, 313-315.	4.1	33
41	Overcoming universal restrictions on metal selectivity by protein design. Nature, 2022, 603, 522-527.	27.8	32
42	Evidence for Functionally Relevant Encounter Complexes in Nitrogenase Catalysis. Journal of the American Chemical Society, 2015, 137, 12704-12712.	13.7	31
43	Assembly of a patchy protein into variable 2D lattices via tunable multiscale interactions. Nature Communications, 2020, 11, 3770.	12.8	31
44	Tunable and Cooperative Thermomechanical Properties of Protein–Metal–Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 17265-17270.	13.7	31
45	Redox-Dependent Metastability of the Nitrogenase P-Cluster. Journal of the American Chemical Society, 2019, 141, 10091-10098.	13.7	30
46	Controlled Protein Dimerization through Hybrid Coordination Motifs. Inorganic Chemistry, 2010, 49, 4362-4369.	4.0	27
47	Metalâ€Templated Design of Chemically Switchable Protein Assemblies with Highâ€Affinity Coordination Sites. Angewandte Chemie - International Edition, 2020, 59, 21940-21944.	13.8	24
48	Functional, metal-based crosslinkers for α-helix induction in short peptides. Chemical Science, 2013, 4, 3740.	7.4	22
49	Self-Assembly of a Designed Nucleoprotein Architecture through Multimodal Interactions. ACS Central Science, 2018, 4, 1578-1586.	11.3	22
50	Modular and Versatile Hybrid Coordination Motifs on α-Helical Protein Surfaces. Inorganic Chemistry, 2010, 49, 7106-7115.	4.0	21
51	Determining the Structural and Energetic Basis of Allostery in a De Novo Designed Metalloprotein Assembly. Journal of the American Chemical Society, 2018, 140, 10043-10053.	13.7	20
52	Templated Construction of a Zn-Selective Protein Dimerization Motif. Inorganic Chemistry, 2011, 50, 6323-6329.	4.0	19
53	Lightâ€Driven Uncoupling of Nitrogenase Catalysis from ATP Hydrolysis. ChemCatChem, 2011, 3, 1549-1555.	3.7	14
54	Design of metal-mediated protein assemblies via hydroxamic acid functionalities. Nature Protocols, 2021, 16, 3264-3297.	12.0	14

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55	Dynamic, Polymer-Integrated Crystals for Efficient, Reversible Protein Encapsulation. Journal of the American Chemical Society, 2022, 144, 10139-10144.	13.7	14
56	Repurposing proteins for new bioinorganic functions. Essays in Biochemistry, 2017, 61, 245-258.	4.7	12
57	Inside polyMOFs: layered structures in polymer-based metal–organic frameworks. Chemical Science, 2020, 11, 10523-10528.	7.4	12
58	Metal-hydrogen-pi-bonded organic frameworks. Dalton Transactions, 2022, 51, 1927-1935.	3.3	12
59	Ion-dependent protein–surface interactions from intrinsic solvent response. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
60	Tunable helicity, stability and DNA-binding properties of short peptides with hybrid metal coordination motifs. Chemical Science, 2016, 7, 5453-5461.	7.4	9
61	Anisotropic Dynamics and Mechanics of Macromolecular Crystals Containing Lattice-Patterned Polymer Networks. Journal of the American Chemical Society, 2020, 142, 19402-19410.	13.7	8
62	Enzyme-Directed Functionalization of Designed, Two-Dimensional Protein Lattices. Biochemistry, 2021, 60, 1050-1062.	2.5	8
63	Metalâ€Templated Design of Chemically Switchable Protein Assemblies with Highâ€Affinity Coordination Sites. Angewandte Chemie, 2020, 132, 22124-22128.	2.0	4
64	Determination of nucleoside triphosphatase activities from measurement of true inorganic phosphate in the presence of labile phosphate compounds. Analytical Biochemistry, 2017, 520, 62-67.	2.4	3