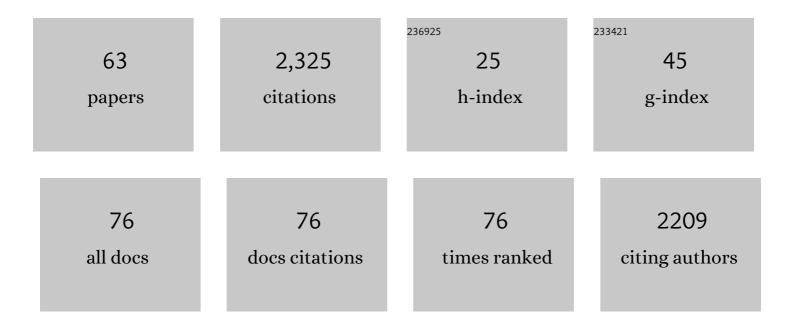
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Modular peptide binders– development of a predictive technology as alternative for reagent antibodies. Biological Chemistry, 2022, 403, 535-543. | 2.5 | 4 |
| 2 | Dreaming ideal protein structures. Nature Biotechnology, 2022, , . | 17.5 | 2 |
| 3 | Protein engineering & design: hitting new heights. Biological Chemistry, 2022, 403, 453-453. | 2.5 | 0 |
| 4 | A newly introduced salt bridge cluster improves structural and biophysical properties of <i>de novo</i> <scp>TIM</scp> barrels. Protein Science, 2022, 31, 513-527. | 7.6 | 8 |
| 5 | Controllable protein design with language models. Nature Machine Intelligence, 2022, 4, 521-532. | 16.0 | 76 |
| 6 | De novo designed peptides for cellular delivery and subcellular localisation. Nature Chemical Biology, 2022, 18, 999-1004. | 8.0 | 16 |
| 7 | A versatile assay platform for enzymatic poly(ethylene-terephthalate) degradation. Protein Engineering, Design and Selection, 2021, 34, . | 2.1 | 2 |
| 8 | An Artificial Cofactor Catalyzing the Baylisâ€Hillman Reaction with Designed Streptavidin as Protein Host**. ChemBioChem, 2021, 22, 1573-1577. | 2.6 | 7 |
| 9 | Extension of a <i>de novo</i> TIM barrel with a rationally designed secondary structure element. Protein Science, 2021, 30, 982-989. | 7.6 | 9 |
| 10 | A biosensor for the direct visualization of auxin. Nature, 2021, 592, 768-772. | 27.8 | 88 |
| 11 | Protlego: a Python package for the analysis and design of chimeric proteins. Bioinformatics, 2021, 37, 3182-3189. | 4.1 | 13 |
| 12 | A comprehensive binding study illustrates ligand recognition in the periplasmic binding protein PotF. Structure, 2021, 29, 433-443.e4. | 3.3 | 9 |
| 13 | ProteinTools: a toolkit to analyze protein structures. Nucleic Acids Research, 2021, 49, W559-W566. | 14.5 | 49 |
| 14 | Evolution, folding, and design of TIM barrels and related proteins. Current Opinion in Structural Biology, 2021, 68, 94-104. | 5.7 | 34 |
| 15 | Fuzzle 2.0: Ligand Binding in Natural Protein Building Blocks. Frontiers in Molecular Biosciences, 2021, 8, 715972. | 3.5 | 6 |
| 16 | The Stability Landscape of de novo TIM Barrels Explored by a Modular Design Approach. Journal of Molecular Biology, 2021, 433, 167153. | 4.2 | 15 |
| 17 | Computational design and experimental characterization of a photo-controlled mRNA-cap guanine-N7 methyltransferase. RSC Chemical Biology, 2021, 2, 1484-1490. | 4.1 | 2 |
| 18 | Fine-tuning spermidine binding modes in the putrescine binding protein PotF. Journal of Biological Chemistry, 2021, 297, 101419. | 3.4 | 2 |

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|----|--|------|-----------|
| 19 | Impact of Enzymatic Degradation on the Material Properties of Poly(Ethylene Terephthalate). Polymers, 2021, 13, 3885. | 4.5 | 7 |
| 20 | The Bacteroidetes Aequorivita sp. and Kaistella jeonii Produce Promiscuous Esterases With PET-Hydrolyzing Activity. Frontiers in Microbiology, 2021, 12, 803896. | 3.5 | 21 |
| 21 | Synthetic biology approaches to dissecting linear motor protein function: towards the design and synthesis of artificial autonomous protein walkers. Biophysical Reviews, 2020, 12, 1041-1054. | 3.2 | 12 |
| 22 | Identification and Analysis of Natural Building Blocks for Evolution-Guided Fragment-Based Protein Design. Journal of Molecular Biology, 2020, 432, 3898-3914. | 4.2 | 34 |
| 23 | Reconstructing the Remote Origins of a Fold Singleton from a Flavodoxin-Like Ancestor. Biochemistry, 2019, 58, 4790-4793. | 2.5 | 9 |
| 24 | Redesign of LAOBP to bind novel <scp>l</scp> â€amino acid ligands. Protein Science, 2018, 27, 957-968. | 7.6 | 19 |
| 25 | Strategies for designing non-natural enzymes and binders. Current Opinion in Chemical Biology, 2018, 47, 67-76. | 6.1 | 46 |
| 26 | Engineering an AB5 Protein Carrier. Scientific Reports, 2018, 8, 12643. | 3.3 | 1 |
| 27 | Editorial overview: A perspective on protein evolution. Current Opinion in Structural Biology, 2018, 48, viii-ix. | 5.7 | Ο |
| 28 | Highlight issue: protein design. Biological Chemistry, 2017, 398, 1-2. | 2.5 | 2 |
| 29 | PocketOptimizer and the Design of Ligand Binding Sites. Methods in Molecular Biology, 2016, 1414, 63-75. | 0.9 | 10 |
| 30 | De novo design of a four-fold symmetric TIM-barrel protein with atomic-level accuracy. Nature Chemical Biology, 2016, 12, 29-34. | 8.0 | 214 |
| 31 | Identification of Protein Scaffolds for Enzyme Design Using Scaffold Selection. Methods in Molecular Biology, 2014, 1216, 183-196. | 0.9 | 3 |
| 32 | Designing protein function – Macromolecular design. Journal of Structural Biology, 2014, 185, 135. | 2.8 | 0 |
| 33 | Change in protein-ligand specificity through binding pocket grafting. Journal of Structural Biology, 2014, 185, 186-192. | 2.8 | 20 |
| 34 | Evolutionary relationship of two ancient protein superfolds. Nature Chemical Biology, 2014, 10, 710-715. | 8.0 | 68 |
| 35 | Design of proteins from smaller fragments—learning from evolution. Current Opinion in Structural Biology, 2014, 27, 56-62. | 5.7 | 49 |
| 36 | Molecular Engineering of Organophosphate Hydrolysis Activity from a Weak Promiscuous Lactonase Template. Journal of the American Chemical Society, 2013, 135, 11670-11677. | 13.7 | 53 |

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|----|---|------|-----------|
| 37 | Computational protein design of ligand binding and catalysis. Current Opinion in Chemical Biology, 2013, 17, 929-933. | 6.1 | 44 |
| 38 | Design of Chimeric Proteins by Combination of Subdomain-Sized Fragments. Methods in Enzymology, 2013, 523, 389-405. | 1.0 | 8 |
| 39 | Engineering chimaeric proteins from fold fragments: â€~hopeful monsters' in protein design. Biochemical Society Transactions, 2013, 41, 1137-1140. | 3.4 | 5 |
| 40 | A toolbox for protein design. Nature, 2012, 491, 204-205. | 27.8 | 7 |
| 41 | A highly stable protein chimera built from fragments of different folds. Protein Engineering, Design and Selection, 2012, 25, 699-703. | 2.1 | 26 |
| 42 | A metalloenzyme reloaded. Nature Chemical Biology, 2012, 8, 224-225. | 8.0 | 3 |
| 43 | Potential of Fragment Recombination for Rational Design of Proteins. Journal of the American Chemical Society, 2012, 134, 4019-4022. | 13.7 | 40 |
| 44 | Einblicke in die Mechanismen der Evolution durch Protein Design. Akademie Der Wissenschaften Zu Goettingen Jahrbuch, 2012, 2011, 183-187. | 0.0 | 0 |
| 45 | Binding Pocket Optimization by Computational Protein Design. PLoS ONE, 2012, 7, e52505. | 2.5 | 39 |
| 46 | Metals Make Proteins Stick. Chemistry and Biology, 2010, 17, 103-104. | 6.0 | 1 |
| 47 | Evolutionary mechanism as a template for protein engineering. Journal of Peptide Science, 2010, 16, 538-544. | 1.4 | 20 |
| 48 | Engineering the Enolase Magnesium II Binding Site: Implications for Its Evolution. Biochemistry, 2010, 49, 7582-7589. | 2.5 | 21 |
| 49 | Computational design of ligand binding is not a solved problem. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18491-18496. | 7.1 | 92 |
| 50 | Establishing wild-type levels of catalytic activity on natural and artificial (βα) ₈ -barrel protein scaffolds. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3704-3709. | 7.1 | 65 |
| 51 | Automated scaffold selection for enzyme design. Proteins: Structure, Function and Bioinformatics, 2009, 77, 74-83. | 2.6 | 45 |
| 52 | High-Resolution Crystal Structure of an Artificial (βα)8-Barrel Protein Designed from Identical Half-Barrels. Biochemistry, 2009, 48, 1145-1147. | 2.5 | 36 |
| 53 | A Robust Protein Host for Anchoring Chelating Ligands and Organocatalysts. ChemBioChem, 2008, 9, 552-564. | 2.6 | 67 |
| 54 | A βα-barrel built by the combination of fragments from different folds. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9942-9947. | 7.1 | 61 |

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|----|---|------|-----------|
| 55 | Structureâ€based design of robust glucose biosensors using a <i>Thermotoga maritima</i> periplasmic glucoseâ€binding protein. Protein Science, 2007, 16, 2240-2250. | 7.6 | 39 |
| 56 | Directed evolution of $(\hat{l}^2 \hat{l}_{\pm})$ 8-barrel enzymes. New Biotechnology, 2005, 22, 31-38. | 2.7 | 24 |
| 57 | Catalytic Versatility, Stability, and Evolution of the (βα)8-Barrel Enzyme Fold. Chemical Reviews, 2005, 105, 4038-4055. | 47.7 | 181 |
| 58 | Mimicking enzyme evolution by generating new (ÂÂ)8-barrels from (ÂÂ)4-half-barrels. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16448-16453. | 7.1 | 97 |
| 59 | A common evolutionary origin of two elementary enzyme folds. FEBS Letters, 2002, 510, 133-135. | 2.8 | 36 |
| 60 | Identification of residues important for NAD+binding by theThermotoga maritimaα-glucosidase AglA, a member of glycoside hydrolase family 4. FEBS Letters, 2002, 517, 267-271. | 2.8 | 26 |
| 61 | Stability, catalytic versatility and evolution of the (βα)8-barrel fold. Current Opinion in Biotechnology, 2001, 12, 376-381. | 6.6 | 83 |
| 62 | Dissection of a (betaalpha)8-barrel enzyme into two folded halves. Nature Structural Biology, 2001, 8, 32-36. | 9.7 | 134 |
| 63 | Oxygen-Insensitive Nitroreductases: Analysis of the Roles of <i>nfsA</i> and <i>nfsB</i> in Development of Resistance to 5-Nitrofuran Derivatives in <i>Escherichia coli</i> . Journal of Bacteriology, 1998, 180, 5529-5539. | 2.2 | 190 |