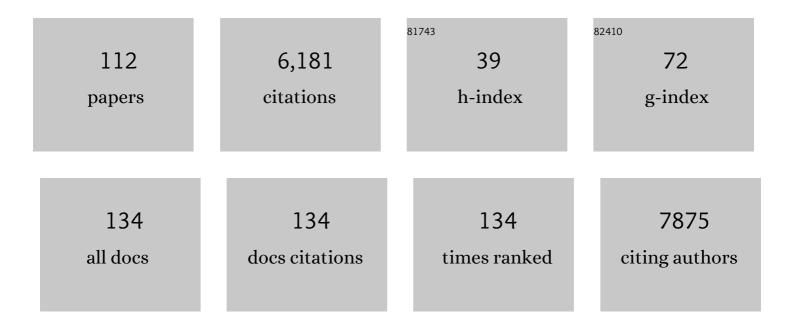
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Baculovirus expression system for heterologous multiprotein complexes. Nature Biotechnology, 2004, 22, 1583-1587.	9.4	427
2	Structural insight into cap-snatching and RNA synthesis by influenza polymerase. Nature, 2014, 516, 361-366.	13.7	376
3	Free fatty acid binding pocket in the locked structure of SARS-CoV-2 spike protein. Science, 2020, 370, 725-730.	6.0	348
4	Protein complex expression by using multigene baculoviral vectors. Nature Methods, 2006, 3, 1021-1032.	9.0	330
5	Retriever is a multiprotein complex for retromer-independent endosomal cargo recycling. Nature Cell Biology, 2017, 19, 1214-1225.	4.6	243
6	MultiBac: expanding the research toolbox for multiprotein complexes. Trends in Biochemical Sciences, 2012, 37, 49-57.	3.7	201
7	New baculovirus expression tools for recombinant protein complex production. Journal of Structural Biology, 2010, 172, 45-54.	1.3	182
8	Nanosecond Molecular Dynamics Simulations of Parallel and Antiparallel Guanine Quadruplex DNA Molecules. Journal of the American Chemical Society, 1999, 121, 5519-5534.	6.6	162
9	The architecture of human general transcription factor TFIID core complex. Nature, 2013, 493, 699-702.	13.7	142
10	MultiBac: Multigene Baculovirusâ€Based Eukaryotic Protein Complex Production. Current Protocols in Protein Science, 2008, 51, Unit 5.20.	2.8	130
11	Formation Pathways of a Guanine-Quadruplex DNA Revealed by Molecular Dynamics and Thermodynamic Analysis of the Substates. Biophysical Journal, 2003, 85, 1787-1804.	0.2	128
12	Structure of the E. coli signal recognition particle bound to a translating ribosome. Nature, 2006, 444, 503-506.	13.7	126
13	Membrane protein insertion and proton-motive-force-dependent secretion through the bacterial holo-translocon SecYEG–SecDF–YajC–YidC. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4844-4849.	3.3	124
14	Membrane association of myotubularin-related protein 2 is mediated by a pleckstrin homology-GRAM domain and a coiled-coil dimerization module. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12177-12182.	3.3	113
15	Architecture of the Mediator head module. Nature, 2011, 475, 240-243.	13.7	104
16	Automated unrestricted multigene recombineering for multiprotein complex production. Nature Methods, 2009, 6, 447-450.	9.0	98
17	The SARS-CoV-2 Spike protein disrupts human cardiac pericytes function through CD147 receptor-mediated signalling: a potential non-infective mechanism of COVID-19 microvascular disease. Clinical Science, 2021, 135, 2667-2689.	1.8	97
18	Structural Dynamics and Cation Interactions of DNA Quadruplex Molecules Containing Mixed Guanine/Cytosine Quartets Revealed by Large-Scale MD Simulations. Journal of the American Chemical Society, 2001, 123, 3295-3307.	6.6	93

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19	Multi-level regulation of myotubularin-related protein-2 phosphatase activity by myotubularin-related protein-13/set-binding factor-2. Human Molecular Genetics, 2006, 15, 569-579.	1.4	92
20	Robots, pipelines, polyproteins: Enabling multiprotein expression in prokaryotic and eukaryotic cells. Journal of Structural Biology, 2011, 175, 198-208.	1.3	92
21	Highly efficient baculovirus-mediated multigene delivery in primary cells. Nature Communications, 2016, 7, 11529.	5.8	83
22	The SARS-CoV-2 spike protein: balancing stability and infectivity. Cell Research, 2020, 30, 1059-1060.	5.7	82
23	The structure of human thyroglobulin. Nature, 2020, 578, 627-630.	13.7	81
24	XLF and APLF bind Ku80 at two remote sites to ensure DNA repair by non-homologous end joining. Nature Structural and Molecular Biology, 2018, 25, 971-980.	3.6	78
25	Molecular Dynamics of Hemiprotonated Intercalated Four-Stranded i-DNA:Â Stable Trajectories on a Nanosecond Scale. Journal of the American Chemical Society, 1998, 120, 6147-6151.	6.6	77
26	Cytoplasmic TAF2–TAF8–TAF10 complex provides evidence for nuclear holo–TFIID assembly from preformed submodules. Nature Communications, 2015, 6, 6011.	5.8	77
27	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS oVâ€2 Spike Protein**. Angewandte Chemie - International Edition, 2021, 60, 7098-7110.	7.2	77
28	SweetBac: A New Approach for the Production of Mammalianised Glycoproteins in Insect Cells. PLoS ONE, 2012, 7, e34226.	1.1	73
29	Genetic code expansion for multiprotein complex engineering. Nature Methods, 2016, 13, 997-1000.	9.0	63
30	Membrane protein insertion and assembly by the bacterial holo-translocon SecYEG–SecDF–YajC–YidC. Biochemical Journal, 2016, 473, 3341-3354.	1.7	61
31	The MultiBac Baculovirus/Insect Cell Expression Vector System for Producing Complex Protein Biologics. Advances in Experimental Medicine and Biology, 2016, 896, 199-215.	0.8	59
32	A plasmid-based multigene expression system for mammalian cells. Nature Communications, 2010, 1, 120.	5.8	55
33	TFIID Enables RNA Polymerase II Promoter-Proximal Pausing. Molecular Cell, 2020, 78, 785-793.e8.	4.5	55
34	Molecular Dynamics of DNA Quadruplex Molecules Containing Inosine, 6-Thioguanine and 6-Thiopurine. Biophysical Journal, 2001, 80, 455-468.	0.2	54
35	Reaction cycle of the yeast Isw2 chromatin remodeling complex. EMBO Journal, 2004, 23, 3836-3843.	3.5	54
36	A central cavity within the holo-translocon suggests a mechanism for membrane protein insertion. Scientific Reports, 2016, 6, 38399.	1.6	54

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37	Multiprotein Expression Strategy for Structural Biology of Eukaryotic Complexes. Structure, 2007, 15, 275-279.	1.6	50
38	Nanosecond Molecular Dynamics of Zipper-like DNA Duplex Structures Containing Sheared G·A Mismatch Pairs. Journal of the American Chemical Society, 2000, 122, 7564-7572.	6.6	47
39	Synthetic energy sensor AMPfret deciphers adenylate-dependent AMPK activation mechanism. Nature Communications, 2019, 10, 1038.	5.8	47
40	Microfluidic production and characterization of biofunctionalized giant unilamellar vesicles for targeted intracellular cargo delivery. Biomaterials, 2021, 264, 120203.	5.7	45
41	Chaperonin CCT checkpoint function in basal transcription factor TFIID assembly. Nature Structural and Molecular Biology, 2018, 25, 1119-1127.	3.6	43
42	Subunits of ADA-two-A-containing (ATAC) or Spt-Ada-Gcn5-acetyltrasferase (SAGA) Coactivator Complexes Enhance the Acetyltransferase Activity of GCN5. Journal of Biological Chemistry, 2015, 290, 28997-29009.	1.6	41
43	Direct Interaction of Ca2+/Calmodulin Inhibits Histone Deacetylase 5 Repressor Core Binding to Myocyte Enhancer Factor 2. Journal of Biological Chemistry, 2003, 278, 17625-17635.	1.6	39
44	Gene gymnastics. Bioengineered, 2013, 4, 279-287.	1.4	37
45	Zooming in on Transcription Preinitiation. Journal of Molecular Biology, 2016, 428, 2581-2591.	2.0	36
46	DNA origami-based single-molecule force spectroscopy elucidates RNA Polymerase III pre-initiation complex stability. Nature Communications, 2020, 11, 2828.	5.8	36
47	The Role of Backbone Oxygen Atoms in the Organization of Nucleic Acid Tertiary Structure: Zippers, Networks, Clamps, and Câ€H…ï,O Hydrogen Bonds. Chemistry - A European Journal, 1997, 3, 1400-1404.	1.7	35
48	Multiprotein Complex Production in Insect Cells by Using Polyproteins. Methods in Molecular Biology, 2014, 1091, 131-141.	0.4	34
49	Syntheses of 4'-thioribonucleosides and thermodynamic stability and crystal structure of RNA oligomers with incorporated 4'-thiocytosine. Nucleic Acids Research, 2005, 33, 3965-3975.	6.5	33
50	MultiBac turns sweet. Bioengineered, 2013, 4, 78-83.	1.4	29
51	MultiBac: from protein complex structures to synthetic viral nanosystems. BMC Biology, 2017, 15, 99.	1.7	29
52	Synthetic self-assembling ADDomer platform for highly efficient vaccination by genetically encoded multiepitope display. Science Advances, 2019, 5, eaaw2853.	4.7	29
53	Young infants exhibit robust functional antibody responses and restrained IFN-γ production to SARS-CoV-2. Cell Reports Medicine, 2021, 2, 100327.	3.3	29
54	Architecture of TAF11/TAF13/TBP complex suggests novel regulation properties of general transcription factor TFIID. ELife, 2017, 6, .	2.8	29

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55	Baculovirus expression: tackling the complexity challenge. Current Opinion in Structural Biology, 2013, 23, 357-364.	2.6	28
56	Getting a Grip on Complexes. Current Genomics, 2009, 10, 558-572.	0.7	27
57	Glutathione-conjugating and membrane-remodeling activity of GDAP1 relies on amphipathic C-terminal domain. Scientific Reports, 2016, 6, 36930.	1.6	27
58	Recombinant Heptameric Coatomer Complexes: Novel Tools to Study Isoformâ€&pecific Functions. Traffic, 2011, 12, 682-692.	1.3	26
59	Ribosome–SRP–FtsY cotranslational targeting complex in the closed state. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3943-3948.	3.3	26
60	Sequential Digestion with Trypsin and Elastase in Cross-Linking Mass Spectrometry. Analytical Chemistry, 2019, 91, 4472-4478.	3.2	26
61	MultiBac: Baculovirus-Mediated Multigene DNA Cargo Delivery in Insect and Mammalian Cells. Viruses, 2019, 11, 198.	1.5	25
62	Pathogen-sugar interactions revealed by universal saturation transfer analysis. Science, 2022, 377, .	6.0	24
63	TBPL2/TFIIA complex establishes the maternal transcriptome through oocyte-specific promoter usage. Nature Communications, 2020, 11, 6439.	5.8	23
64	Tandem Recombineering by SLIC Cloning and Cre-LoxP Fusion to Generate Multigene Expression Constructs for Protein Complex Research. Methods in Molecular Biology, 2013, 1073, 131-140.	0.4	23
65	Structural insights in cell-type specific evolution of intra-host diversity by SARS-CoV-2. Nature Communications, 2022, 13, 222.	5.8	23
66	The MultiBac Protein Complex Production Platform at the EMBL. Journal of Visualized Experiments, 2013, , e50159.	0.2	22
67	More pieces to the puzzle: recent structural insights into class II transcription initiation. Current Opinion in Structural Biology, 2014, 24, 91-97.	2.6	22
68	Homozygous TAF8 mutation in a patient with intellectual disability results in undetectable TAF8 protein, but preserved RNA polymerase II transcription. Human Molecular Genetics, 2018, 27, 2171-2186.	1.4	22
69	Polyproteins in structural biology. Current Opinion in Structural Biology, 2015, 32, 139-146.	2.6	21
70	Molecular structure of the halogenated anti-cancer drug iododoxorubicin complexed with d(TGTACA) and d(CGATCG). Nucleic Acids Research, 1995, 23, 4488-4494.	6.5	20
71	Targeted supplementation design for improved production and quality of enveloped viral particles in insect cell-baculovirus expression system. Journal of Biotechnology, 2016, 233, 34-41.	1.9	20
72	Synthetic virions reveal fatty acid-coupled adaptive immunogenicity of SARS-CoV-2 spike glycoprotein. Nature Communications, 2022, 13, 868.	5.8	20

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73	Structural characterization of recombinant IAV polymerase reveals a stable complex between viral PA-PB1 heterodimer and host RanBP5. Scientific Reports, 2016, 6, 24727.	1.6	19
74	The fatty acid site is coupled to functional motifs in the SARS-CoV-2 spike protein and modulates spike allosteric behaviour. Computational and Structural Biotechnology Journal, 2022, 20, 139-147.	1.9	19
75	Chemical crossâ€linking and mass spectrometry to determine the subunit interaction network in a recombinant human SAGA HAT subcomplex. Protein Science, 2015, 24, 1232-1246.	3.1	17
76	ACEMBL Tool-Kits for High-Throughput Multigene Delivery and Expression in Prokaryotic and Eukaryotic Hosts. Advances in Experimental Medicine and Biology, 2016, 896, 27-42.	0.8	17
77	MultiBac complexomics. Expert Review of Proteomics, 2012, 9, 363-373.	1.3	16
78	Structural basis of signal sequence surveillance and selection by the SRP–FtsY complex. Nature Structural and Molecular Biology, 2013, 20, 604-610.	3.6	16
79	Highly efficient CRISPR-mediated large DNA docking and multiplexed prime editing using a single baculovirus. Nucleic Acids Research, 2022, 50, 7783-7799.	6.5	15
80	Baculovirus expression: old dog, new tricks. Bioengineered, 2015, 6, 316-322.	1.4	14
81	Characterization and Production of Protein Complexes by Co-expression in Escherichia coli. Methods in Molecular Biology, 2015, 1261, 63-89.	0.4	14
82	The Production of Multiprotein Complexes in Insect Cells Using the Baculovirus Expression System. Methods in Molecular Biology, 2015, 1261, 91-114.	0.4	14
83	Synthetic Virus-Derived Nanosystems (SVNs) for Delivery and Precision Docking of Large Multifunctional DNA Circuitry in Mammalian Cells. Pharmaceutics, 2020, 12, 759.	2.0	13
84	Light it up: Highly efficient multigene delivery in mammalian cells. BioEssays, 2011, 33, 946-955.	1.2	12
85	Towards eukaryotic structural complexomics. Journal of Structural and Functional Genomics, 2009, 10, 37-46.	1.2	11
86	MultiBacMam Bimolecular Fluorescence Complementation (BiFC) tool-kit identifies new small-molecule inhibitors of the CDK5-p25 protein-protein interaction (PPI). Scientific Reports, 2018, 8, 5083.	1.6	11
87	ACEMBLing a Multiprotein Transmembrane Complex. Methods in Enzymology, 2015, 556, 23-49.	0.4	9
88	Genetically Encoded Fluorescent Biosensors to Explore AMPK Signaling and Energy Metabolism. Exs, 2016, 107, 491-523.	1.4	9
89	VLPâ€factoryâ,,¢ and ADDomer <sup>©</sup> : Selfâ€assembling Virusâ€Like Particle (VLP) Technologies for Multiple Protein and Peptide Epitope Display. Current Protocols, 2021, 1, e55.	1.3	9
90	OmniBac: Universal Multigene Transfer Plasmids for Baculovirus Expression Vector Systems. Methods in Molecular Biology, 2014, 1091, 123-130.	0.4	9

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91	Structure of the Human Cation-Independent Mannose 6-Phosphate/IGF2 Receptor Domains 7–11ÂUncovers the Mannose 6-Phosphate Binding Site of Domain 9. Structure, 2020, 28, 1300-1312.e5.	1.6	8
92	Structures of nonsense-mediated mRNA decay factors UPF3B and UPF3A in complex with UPF2 reveal molecular basis for competitive binding and for neurodevelopmental disorder-causing mutation. Nucleic Acids Research, 2022, 50, 5934-5947.	6.5	8
93	High-Throughput Production of Influenza Virus-Like Particle (VLP) Array by Using VLP-factoryâ,,¢, a MultiBac Baculoviral Genome Customized for Enveloped VLP Expression. Methods in Molecular Biology, 2019, 2025, 213-226.	0.4	7
94	Frontispiz: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS oVâ€2 Spike Protein. Angewandte Chemie, 2021, 133, .	1.6	7
95	X-ray Structure of the Human Karyopherin RanBP5, an Essential Factor for Influenza Polymerase Nuclear Trafficking. Journal of Molecular Biology, 2020, 432, 3353-3359.	2.0	6
96	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARSâ€CoVâ€⊋ Spike Protein**. Angewandte Chemie, 2021, 133, 7174-7186.	1.6	6
97	Efficient production of a mature and functional gamma secretase protease. Scientific Reports, 2018, 8, 12834.	1.6	5
98	The MultiBac BEVS: Basics, applications, performance and recent developments. Methods in Enzymology, 2021, 660, 129-154.	0.4	5
99	HR-Bac, a toolbox based on homologous recombination for expression, screening and production of multiprotein complexes using the baculovirus expression system. Scientific Reports, 2022, 12, 2030.	1.6	5
100	Protein production for structural biology: new solutions to new challenges. Current Opinion in Structural Biology, 2013, 23, 317-318.	2.6	4
101	Tuneable endogenous mammalian target complementation via multiplexed plasmid-based recombineering. Scientific Reports, 2015, 5, 17432.	1.6	4
102	New insights into HCV replication in original cells from Aedes mosquitoes. Virology Journal, 2017, 14, 161.	1.4	4
103	AMPfret: synthetic nanosensor for cellular energy states. Biochemical Society Transactions, 2020, 48, 103-111.	1.6	4
104	TAF8 regions important for TFIID lobe B assembly or for TAF2 interactions are required for embryonic stem cell survival. Journal of Biological Chemistry, 2021, 297, 101288.	1.6	4
105	The MultiBac system: a perspective. Emerging Topics in Life Sciences, 2019, 3, 477-482.	1.1	3
106	Multiprotein Complex Production in E. coli: The SecYEG-SecDFYajC-YidC Holotranslocon. Methods in Molecular Biology, 2017, 1586, 279-290.	0.4	2
107	Four-Stranded Intercalated Cytosine-Rich Molecules: Novel Insights into DNA Structure and Stability. Nucleosides & Nucleotides, 1999, 18, 1583-1585.	0.5	1
108	Nucleic Acid Science – The Excitement of Discovery: Annual Symposium of the Chemical Society Zürich CGZ, Zürich, October 26, 2007. Chimia, 2007, 61, 837.	0.3	0

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109	Architecture of the Mediator Head Module. Biophysical Journal, 2012, 102, 287a.	0.2	Ο
110	Editorial overview: New protein production tools for structural biology. Current Opinion in Structural Biology, 2015, 32, v-vii.	2.6	0
111	SynBac: Enhanced Baculovirus Genomes by Iterative Recombineering. Methods in Molecular Biology, 2021, 2305, 141-152.	0.4	0
112	Frontispiece: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARSâ€CoVâ€2 Spike Protein. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0