

# Imre Berger

## List of Publications by Citations

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111  
papers

4,539  
citations

36  
h-index

65  
g-index

134  
ext. papers

5,493  
ext. citations

11.2  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
111	Baculovirus expression system for heterologous multiprotein complexes. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 1583-7	44.5	347
110	Structural insight into cap-snatching and RNA synthesis by influenza polymerase. <i>Nature</i> , <b>2014</b> , 516, 361-6	50.4	299
109	Protein complex expression by using multigene baculoviral vectors. <i>Nature Methods</i> , <b>2006</b> , 3, 1021-32	21.6	262
108	Free fatty acid binding pocket in the locked structure of SARS-CoV-2 spike protein. <i>Science</i> , <b>2020</b> , 370, 725-730	33.3	182
107	MultiBac: expanding the research toolbox for multiprotein complexes. <i>Trends in Biochemical Sciences</i> , <b>2012</b> , 37, 49-57	10.3	159
106	Nanosecond Molecular Dynamics Simulations of Parallel and Antiparallel Guanine Quadruplex DNA Molecules. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 5519-5534	16.4	153
105	Retriever is a multiprotein complex for retromer-independent endosomal cargo recycling. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 1214-1225	23.4	151
104	New baculovirus expression tools for recombinant protein complex production. <i>Journal of Structural Biology</i> , <b>2010</b> , 172, 45-54	3.4	149
103	The architecture of human general transcription factor TFIID core complex. <i>Nature</i> , <b>2013</b> , 493, 699-702	50.4	116
102	Formation pathways of a guanine-quadruplex DNA revealed by molecular dynamics and thermodynamic analysis of the substates. <i>Biophysical Journal</i> , <b>2003</b> , 85, 1787-804	2.9	114
101	Structure of the E. coli signal recognition particle bound to a translating ribosome. <i>Nature</i> , <b>2006</b> , 444, 503-6	50.4	109
100	MultiBac: multigene baculovirus-based eukaryotic protein complex production. <i>Current Protocols in Protein Science</i> , <b>2008</b> , Chapter 5, Unit 5.20	3.1	105
99	Membrane association of myotubularin-related protein 2 is mediated by a pleckstrin homology-GRAM domain and a coiled-coil dimerization module. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 12177-82	11.5	97
98	Architecture of the Mediator head module. <i>Nature</i> , <b>2011</b> , 475, 240-3	50.4	96
97	Membrane protein insertion and proton-motive-force-dependent secretion through the bacterial holo-translocon SecYEG-SecDF-YajC-YidC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 4844-9	11.5	93
96	Multi-level regulation of myotubularin-related protein-2 phosphatase activity by myotubularin-related protein-13/set-binding factor-2. <i>Human Molecular Genetics</i> , <b>2006</b> , 15, 569-79	5.6	87
95	Structural dynamics and cation interactions of DNA quadruplex molecules containing mixed guanine/cytosine quartets revealed by large-scale MD simulations. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 3295-307	16.4	87

94	Automated unrestricted multigene recombineering for multiprotein complex production. <i>Nature Methods</i> , <b>2009</b> , 6, 447-50	21.6	84
93	Robots, pipelines, polyproteins: enabling multiprotein expression in prokaryotic and eukaryotic cells. <i>Journal of Structural Biology</i> , <b>2011</b> , 175, 198-208	3.4	80
92	Molecular Dynamics of Hemiprotonated Intercalated Four-Stranded i-DNA: Stable Trajectories on a Nanosecond Scale. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6147-6151	16.4	74
91	Highly efficient baculovirus-mediated multigene delivery in primary cells. <i>Nature Communications</i> , <b>2016</b> , 7, 11529	17.4	70
90	SweetBac: a new approach for the production of mammalianised glycoproteins in insect cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e34226	3.7	63
89	Cytoplasmic TAF2-TAF8-TAF10 complex provides evidence for nuclear holo-TFIID assembly from preformed submodules. <i>Nature Communications</i> , <b>2015</b> , 6, 6011	17.4	57
88	Molecular dynamics of DNA quadruplex molecules containing inosine, 6-thioguanine and 6-thiopurine. <i>Biophysical Journal</i> , <b>2001</b> , 80, 455-68	2.9	52
87	Genetic code expansion for multiprotein complex engineering. <i>Nature Methods</i> , <b>2016</b> , 13, 997-1000	21.6	48
86	Reaction cycle of the yeast Isw2 chromatin remodeling complex. <i>EMBO Journal</i> , <b>2004</b> , 23, 3836-43	13	48
85	A plasmid-based multigene expression system for mammalian cells. <i>Nature Communications</i> , <b>2010</b> , 1, 120	17.4	45
84	Multiprotein expression strategy for structural biology of eukaryotic complexes. <i>Structure</i> , <b>2007</b> , 15, 275-9	5.2	45
83	XLF and APLF bind Ku80 at two remote sites to ensure DNA repair by non-homologous end joining. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 971-980	17.6	45
82	Nanosecond Molecular Dynamics of Zipper-like DNA Duplex Structures Containing Sheared G/A Mismatch Pairs. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7564-7572	16.4	44
81	The MultiBac Baculovirus/Insect Cell Expression Vector System for Producing Complex Protein Biologics. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 896, 199-215	3.6	42
80	Membrane protein insertion and assembly by the bacterial holo-translocon SecYEG-SecDF-YajC-YidC. <i>Biochemical Journal</i> , <b>2016</b> , 473, 3341-54	3.8	40
79	Direct interaction of Ca <sup>2+</sup> /calmodulin inhibits histone deacetylase 5 repressor core binding to myocyte enhancer factor 2. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 17625-35	5.4	39
78	A central cavity within the holo-translocon suggests a mechanism for membrane protein insertion. <i>Scientific Reports</i> , <b>2016</b> , 6, 38399	4.9	38
77	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7098-7110	16.4	37

76	The SARS-CoV-2 spike protein: balancing stability and infectivity. <i>Cell Research</i> , <b>2020</b> , 30, 1059-1060	24.7	36
75	The structure of human thyroglobulin. <i>Nature</i> , <b>2020</b> , 578, 627-630	50.4	36
74	Subunits of ADA-two-A-containing (ATAC) or Spt-Ada-Gcn5-acetyltransferase (SAGA) Coactivator Complexes Enhance the Acetyltransferase Activity of GCN5. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 28997-9009	5.4	30
73	Gene gymnastics: Synthetic biology for baculovirus expression vector system engineering. <i>Bioengineered</i> , <b>2013</b> , 4, 279-87	5.7	30
72	The Role of Backbone Oxygen Atoms in the Organization of Nucleic Acid Tertiary Structure: Zippers, Networks, Clamps, and C-H...D Hydrogen Bonds. <i>Chemistry - A European Journal</i> , <b>1997</b> , 3, 1400-1404	4.8	30
71	TFIID Enables RNA Polymerase II Promoter-Proximal Pausing. <i>Molecular Cell</i> , <b>2020</b> , 78, 785-793.e8	17.6	28
70	MultiBac turns sweet. <i>Bioengineered</i> , <b>2013</b> , 4, 78-83	5.7	28
69	Zooming in on Transcription Preinitiation. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 2581-2591	6.5	28
68	Synthetic energy sensor AMPfret deciphers adenylate-dependent AMPK activation mechanism. <i>Nature Communications</i> , <b>2019</b> , 10, 1038	17.4	27
67	Syntheses of 4Sthioribonucleosides and thermodynamic stability and crystal structure of RNA oligomers with incorporated 4Sthiocytosine. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 3965-75	20.1	27
66	Getting a grip on complexes. <i>Current Genomics</i> , <b>2009</b> , 10, 558-72	2.6	26
65	Multiprotein complex production in insect cells by using polyproteins. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1091, 131-41	1.4	24
64	Baculovirus expression: tackling the complexity challenge. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 357-64	8.1	23
63	Recombinant heptameric coatomer complexes: novel tools to study isoform-specific functions. <i>Traffic</i> , <b>2011</b> , 12, 682-92	5.7	23
62	Chaperonin CCT checkpoint function in basal transcription factor TFIID assembly. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 1119-1127	17.6	22
61	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. <i>Clinical Science</i> , <b>2021</b> ,	6.5	21
60	Tandem recombineering by SLIC cloning and Cre-LoxP fusion to generate multigene expression constructs for protein complex research. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1073, 131-40	1.4	21
59	More pieces to the puzzle: recent structural insights into class II transcription initiation. <i>Current Opinion in Structural Biology</i> , <b>2014</b> , 24, 91-7	8.1	20

58	MultiBac: Baculovirus-Mediated Multigene DNA Cargo Delivery in Insect and Mammalian Cells. <i>Viruses</i> , <b>2019</b> , 11,	6.2	19
57	Ribosome-SRP-FtsY cotranslational targeting complex in the closed state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3943-8	11.5	19
56	Architecture of TAF11/TAF13/TBP complex suggests novel regulation properties of general transcription factor TFIID. <i>ELife</i> , <b>2017</b> , 6,	8.9	19
55	DNA origami-based single-molecule force spectroscopy elucidates RNA Polymerase III pre-initiation complex stability. <i>Nature Communications</i> , <b>2020</b> , 11, 2828	17.4	18
54	The multiBac protein complex production platform at the EMBL. <i>Journal of Visualized Experiments</i> , <b>2013</b> , e50159	1.6	18
53	Molecular structure of the halogenated anti-cancer drug iododoxorubicin complexed with d(TGTACA) and d(CGATCG). <i>Nucleic Acids Research</i> , <b>1995</b> , 23, 4488-94	20.1	18
52	Glutathione-conjugating and membrane-remodeling activity of GDAP1 relies on amphipathic C-terminal domain. <i>Scientific Reports</i> , <b>2016</b> , 6, 36930	4.9	18
51	Microfluidic production and characterization of biofunctionalized giant unilamellar vesicles for targeted intracellular cargo delivery. <i>Biomaterials</i> , <b>2021</b> , 264, 120203	15.6	18
50	MultiBac: from protein complex structures to synthetic viral nanosystems. <i>BMC Biology</i> , <b>2017</b> , 15, 99	7.3	17
49	Chemical cross-linking and mass spectrometry to determine the subunit interaction network in a recombinant human SAGA HAT subcomplex. <i>Protein Science</i> , <b>2015</b> , 24, 1232-46	6.3	16
48	Structural characterization of recombinant IAV polymerase reveals a stable complex between viral PA-PB1 heterodimer and host RanBP5. <i>Scientific Reports</i> , <b>2016</b> , 6, 24727	4.9	16
47	Structural basis of signal sequence surveillance and selection by the SRP-FtsY complex. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 604-10	17.6	15
46	Polyproteins in structural biology. <i>Current Opinion in Structural Biology</i> , <b>2015</b> , 32, 139-46	8.1	15
45	MultiBac complexomics. <i>Expert Review of Proteomics</i> , <b>2012</b> , 9, 363-73	4.2	15
44	Sequential Digestion with Trypsin and Elastase in Cross-Linking Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 4472-4478	7.8	14
43	Synthetic self-assembling ADDomer platform for highly efficient vaccination by genetically encoded multiepitope display. <i>Science Advances</i> , <b>2019</b> , 5, eaaw2853	14.3	13
42	Homozygous TAF8 mutation in a patient with intellectual disability results in undetectable TAF8 protein, but preserved RNA polymerase II transcription. <i>Human Molecular Genetics</i> , <b>2018</b> , 27, 2171-2186	5.6	13
41	Targeted supplementation design for improved production and quality of enveloped viral particles in insect cell-baculovirus expression system. <i>Journal of Biotechnology</i> , <b>2016</b> , 233, 34-41	3.7	13

40	Baculovirus expression: old dog, new tricks. <i>Bioengineered</i> , <b>2015</b> , 6, 316-22	5.7	12
39	TBPL2/TFIIA complex establishes the maternal transcriptome through oocyte-specific promoter usage. <i>Nature Communications</i> , <b>2020</b> , 11, 6439	17.4	12
38	Light it up: highly efficient multigene delivery in mammalian cells. <i>BioEssays</i> , <b>2011</b> , 33, 946-55	4.1	11
37	The production of multiprotein complexes in insect cells using the baculovirus expression system. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1261, 91-114	1.4	11
36	Characterization and production of protein complexes by co-expression in Escherichia coli. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1261, 63-89	1.4	10
35	ACEMBL Tool-Kits for High-Throughput Multigene Delivery and Expression in Prokaryotic and Eukaryotic Hosts. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 896, 27-42	3.6	10
34	ACEMBLing a multiprotein transmembrane complex: the functional SecYEG-SecDF-YajC-YidC Holotranslocon protein secretase/insertase. <i>Methods in Enzymology</i> , <b>2015</b> , 556, 23-49	1.7	8
33	Genetically Encoded Fluorescent Biosensors to Explore AMPK Signaling and Energy Metabolism. <i>Exs</i> , <b>2016</b> , 107, 491-523		8
32	Towards eukaryotic structural complexomics. <i>Journal of Structural and Functional Genomics</i> , <b>2009</b> , 10, 37-46		8
31	OmniBac: universal multigene transfer plasmids for baculovirus expression vector systems. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1091, 123-30	1.4	8
30	Unexpected free fatty acid binding pocket in the cryo-EM structure of SARS-CoV-2 spike protein		8
29	High-Throughput Production of Influenza Virus-Like Particle (VLP) Array by Using VLP-factory, a MultiBac Baculoviral Genome Customized for Enveloped VLP Expression. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2025, 213-226	1.4	7
28	MultiBacMam Bimolecular Fluorescence Complementation (BiFC) tool-kit identifies new small-molecule inhibitors of the CDK5-p25 protein-protein interaction (PPI). <i>Scientific Reports</i> , <b>2018</b> , 8, 5083	4.9	6
27	Synthetic Virus-Derived Nanosystems (SVNs) for Delivery and Precision Docking of Large Multifunctional DNA Circuitry in Mammalian Cells. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	6
26	Young infants exhibit robust functional antibody responses and restrained IFN- $\gamma$ production to SARS-CoV-2. <i>Cell Reports Medicine</i> , <b>2021</b> , 2, 100327	18	6
25	Cryptic pathogen-sugar interactions revealed by universal saturation transfer analysis		5
24	Synthetic virions reveal fatty acid-coupled adaptive immunogenicity of SARS-CoV-2 spike glycoprotein.. <i>Nature Communications</i> , <b>2022</b> , 13, 868	17.4	5
23	X-ray Structure of the Human Karyopherin RanBP5, an Essential Factor for Influenza Polymerase Nuclear Trafficking. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 3353-3359	6.5	4

22	New insights into HCV replication in original cells from Aedes mosquitoes. <i>Virology Journal</i> , <b>2017</b> , 14, 161	6.1	4
21	Live-cell 3D single-molecule tracking reveals how NuRD modulates enhancer dynamics		4
20	Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7174-7186	3.6	4
19	Tuneable endogenous mammalian target complementation via multiplexed plasmid-based recombineering. <i>Scientific Reports</i> , <b>2015</b> , 5, 17432	4.9	3
18	Frontispiz: Molecular Simulations suggest Vitamins, Retinoids and Steroids as Ligands of the Free Fatty Acid Pocket of the SARS-CoV-2 Spike Protein. <i>Angewandte Chemie</i> , <b>2021</b> , 133,	3.6	3
17	The fatty acid site is coupled to functional motifs in the SARS-CoV-2 spike protein and modulates spike allosteric behaviour		3
16	Efficient production of a mature and functional gamma secretase protease. <i>Scientific Reports</i> , <b>2018</b> , 8, 12834	4.9	3
15	Multiprotein Complex Production in E. coli: The SecYEG-SecDFYajC-YidC Holotranslocon. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1586, 279-290	1.4	2
14	The fatty acid site is coupled to functional motifs in the SARS-CoV-2 spike protein and modulates spike allosteric behaviour.. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> ,	6.8	2
13	Structural insights in cell-type specific evolution of intra-host diversity by SARS-CoV-2.. <i>Nature Communications</i> , <b>2022</b> , 13, 222	17.4	2
12	Author response: Architecture of TAF11/TAF13/TBP complex suggests novel regulation properties of general transcription factor TFIID <b>2017</b> ,		2
11	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		2
10	Structural basis for cell-type specific evolution of viral fitness by SARS-CoV-2		2
9	Four-Stranded Intercalated Cytosine-Rich Molecules: Novel Insights into DNA Structure and Stability. <i>Nucleosides &amp; Nucleotides</i> , <b>1999</b> , 18, 1583-1585		1
8	HR-Bac, a toolbox based on homologous recombination for expression, screening and production of multiprotein complexes using the baculovirus expression system.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2030	4.9	1
7	The MultiBac system: a perspective. <i>Emerging Topics in Life Sciences</i> , <b>2019</b> , 3, 477-482	3.5	1
6	AMPfret: synthetic nanosensor for cellular energy states. <i>Biochemical Society Transactions</i> , <b>2020</b> , 48, 103-111	5.1	1
5	Structure of the Human Cation-Independent Mannose 6-Phosphate/IGF2 Receptor Domains 7-11 Uncovers the Mannose 6-Phosphate Binding Site of Domain 9. <i>Structure</i> , <b>2020</b> , 28, 1300-1312.e5	5.2	1

4	VLP-factory and ADDomer : Self-assembling Virus-Like Particle (VLP) Technologies for Multiple Protein and Peptide Epitope Display. <i>Current Protocols</i> , <b>2021</b> , 1, e55		1
3	TAF8 regions important for TFIID lobe B assembly or for TAF2 interactions are required for embryonic stem cell survival. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101288	5.4	0
2	The MultiBac BEVS: Basics, applications, performance and recent developments. <i>Methods in Enzymology</i> , <b>2021</b> , 660, 129-154	1.7	0
1	SynBac: Enhanced Baculovirus Genomes by Iterative Recombineering. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2305, 141-152	1.4	