

Michal Hammel

List of Publications by Year in descending order

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96
papers

9,967
citations

57631

44
h-index

39575

94
g-index

103
all docs

103
docs citations

103
times ranked

12794
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray solution scattering (SAXS) combined with crystallography and computation: defining accurate macromolecular structures, conformations and assemblies in solution. Quarterly Reviews of Biophysics, 2007, 40, 191-285.	2.4	1,026
2	Structural Insights into NEDD8 Activation of Cullin-RING Ligases: Conformational Control of Conjugation. Cell, 2008, 134, 995-1006.	13.5	659
3	Robust, high-throughput solution structural analyses by small angle X-ray scattering (SAXS). Nature Methods, 2009, 6, 606-612.	9.0	610
4	XPD Helicase Structures and Activities: Insights into the Cancer and Aging Phenotypes from XPD Mutations. Cell, 2008, 133, 789-800.	13.5	593
5	Accurate SAXS Profile Computation and its Assessment by Contrast Variation Experiments. Biophysical Journal, 2013, 105, 962-974.	0.2	489
6	FoXS: a web server for rapid computation and fitting of SAXS profiles. Nucleic Acids Research, 2010, 38, W540-W544.	6.5	474
7	FoXS, FoXSDock and MultiFoXS: Single-state and multi-state structural modeling of proteins and their complexes based on SAXS profiles. Nucleic Acids Research, 2016, 44, W424-W429.	6.5	427
8	Structures of SPOP-Substrate Complexes: Insights into Molecular Architectures of BTB-Cul3 Ubiquitin Ligases. Molecular Cell, 2009, 36, 39-50.	4.5	403
9	Structure and flexibility within proteins as identified through small angle X-ray scattering. General Physiology and Biophysics, 2009, 28, 174-189.	0.4	374
10	ModBase, a database of annotated comparative protein structure models and associated resources. Nucleic Acids Research, 2014, 42, D336-D346.	6.5	275
11	Implementation and performance of SIBYLS: a dual endstation small-angle X-ray scattering and macromolecular crystallography beamline at the Advanced Light Source. Journal of Applied Crystallography, 2013, 46, 1-13.	1.9	208
12	Ku and DNA-dependent Protein Kinase Dynamic Conformations and Assembly Regulate DNA Binding and the Initial Non-homologous End Joining Complex. Journal of Biological Chemistry, 2010, 285, 1414-1423.	1.6	189
13	High-Throughput SAXS for the Characterization of Biomolecules in Solution: A Practical Approach. Methods in Molecular Biology, 2014, 1091, 245-258.	0.4	176
14	Structural insights into the interaction of IL-33 with its receptors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14918-14923.	3.3	155
15	XRCC4 Protein Interactions with XRCC4-like Factor (XLF) Create an Extended Grooved Scaffold for DNA Ligation and Double Strand Break Repair. Journal of Biological Chemistry, 2011, 286, 32638-32650.	1.6	151
16	ABC ATPase signature helices in Rad50 link nucleotide state to Mre11 interface for DNA repair. Nature Structural and Molecular Biology, 2011, 18, 423-431.	3.6	149
17	A structural basis for complement inhibition by Staphylococcus aureus. Nature Immunology, 2007, 8, 430-437.	7.0	148
18	Enhancement of RAD51 recombinase activity by the tumor suppressor PALB2. Nature Structural and Molecular Biology, 2010, 17, 1255-1259.	3.6	146

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19	HU multimerization shift controls nucleoid compaction. <i>Science Advances</i> , 2016, 2, e1600650.	4.7	144
20	Atg8 Transfer from Atg7 to Atg3: A Distinctive E1-E2 Architecture and Mechanism in the Autophagy Pathway. <i>Molecular Cell</i> , 2011, 44, 451-461.	4.5	135
21	Mechanism of ubiquitin ligation and lysine prioritization by a HECT E3. <i>ELife</i> , 2013, 2, e00828.	2.8	130
22	Comprehensive macromolecular conformations mapped by quantitative SAXS analyses. <i>Nature Methods</i> , 2013, 10, 453-454.	9.0	112
23	Structural Basis for Marburg Virus Neutralization by a Cross-Reactive Human Antibody. <i>Cell</i> , 2015, 160, 904-912.	13.5	110
24	XLF Regulates Filament Architecture of the XRCC4-Ligase IV Complex. <i>Structure</i> , 2010, 18, 1431-1442.	1.6	104
25	Validation of macromolecular flexibility in solution by small-angle X-ray scattering (SAXS). <i>European Biophysics Journal</i> , 2012, 41, 789-799.	1.2	100
26	Structural insights into NHEJ: Building up an integrated picture of the dynamic DSB repair super complex, one component and interaction at a time. <i>DNA Repair</i> , 2014, 17, 110-120.	1.3	100
27	Macromolecular docking restrained by a small angle X-ray scattering profile. <i>Journal of Structural Biology</i> , 2011, 173, 461-471.	1.3	97
28	Structural Basis of Cellulosome Efficiency Explored by Small Angle X-ray Scattering. <i>Journal of Biological Chemistry</i> , 2005, 280, 38562-38568.	1.6	95
29	XRCC4 and XLF form long helical protein filaments suitable for DNA end protection and alignment to facilitate DNA double strand break repair. <i>Biochemistry and Cell Biology</i> , 2013, 91, 31-41.	0.9	91
30	Solution Structure of Human and Bovine β 2-Glycoprotein I Revealed by Small-angle X-ray Scattering. <i>Journal of Molecular Biology</i> , 2002, 321, 85-97.	2.0	90
31	Human DNA Ligase III Recognizes DNA Ends by Dynamic Switching between Two DNA-Bound States. <i>Biochemistry</i> , 2010, 49, 6165-6176.	1.2	90
32	Characterization of Ehp, a Secreted Complement Inhibitory Protein from <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 30051-30061.	1.6	84
33	Quantitative Protein Corona Composition and Dynamics on Carbon Nanotubes in Biological Environments. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23668-23677.	7.2	78
34	Allosteric inhibition of complement function by a staphylococcal immune evasion protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17621-17626.	3.3	77
35	Structure of a Glomulin-RBX1-CUL1 Complex: Inhibition of a RING E3 Ligase through Masking of Its E2-Binding Surface. <i>Molecular Cell</i> , 2012, 47, 371-382.	4.5	71
36	Modular Structure of Solubilized Human Apolipoprotein B-100. <i>Journal of Biological Chemistry</i> , 2006, 281, 19732-19739.	1.6	67

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37	Allosteric activation of the nitric oxide receptor soluble guanylate cyclase mapped by cryo-electron microscopy. <i>ELife</i> , 2019, 8, .	2.8	66
38	A Molecular Insight into Complement Evasion by the Staphylococcal Complement Inhibitor Protein Family. <i>Journal of Immunology</i> , 2009, 183, 2565-2574.	0.4	63
39	An Intrinsically Disordered APLF Links Ku, DNA-PKcs, and XRCC4-DNA Ligase IV in an Extended Flexible Non-homologous End Joining Complex. <i>Journal of Biological Chemistry</i> , 2016, 291, 26987-27006.	1.6	61
40	Structural Definition of a Unique Neutralization Epitope on the Receptor-Binding Domain of MERS-CoV Spike Glycoprotein. <i>Cell Reports</i> , 2018, 24, 441-452.	2.9	57
41	Mechanistic insights into the role of Hop2-Mnd1 in meiotic homologous DNA pairing. <i>Nucleic Acids Research</i> , 2014, 42, 906-917.	6.5	52
42	Structural Flexibility of the N-terminal Î²-Barrel Domain of 15-Lipoxygenase-1 Probed by Small Angle X-ray Scattering. Functional Consequences for Activity Regulation and Membrane Binding. <i>Journal of Molecular Biology</i> , 2004, 343, 917-929.	2.0	51
43	Mechanism of the Interaction of Î²2-Glycoprotein I with Negatively Charged Phospholipid Membranes. <i>Biochemistry</i> , 2001, 40, 14173-14181.	1.2	48
44	Structural Insights into the Mechanism of Formation of Cellulosomes Probed by Small Angle X-ray Scattering. <i>Journal of Biological Chemistry</i> , 2004, 279, 55985-55994.	1.6	48
45	Mechanism of DNA substrate recognition by the mammalian DNA repair enzyme, Polynucleotide Kinase. <i>Nucleic Acids Research</i> , 2009, 37, 6161-6173.	6.5	48
46	Novel bacterial clade reveals origin of form I Rubisco. <i>Nature Plants</i> , 2020, 6, 1158-1166.	4.7	46
47	Uncovering DNA-PKcs ancient phylogeny, unique sequence motifs and insights for human disease. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 87-108.	1.4	45
48	Mechanism of efficient double-strand break repair by a long non-coding RNA. <i>Nucleic Acids Research</i> , 2020, 48, 10953-10972.	6.5	43
49	Structural basis for AcrVA4 inhibition of specific CRISPR-Cas12a. <i>ELife</i> , 2019, 8, .	2.8	41
50	Software for the high-throughput collection of SAXS data using an enhanced Blu-Ice DCS control system. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 774-781.	1.0	39
51	Functional Intersection of ATM and DNA-Dependent Protein Kinase Catalytic Subunit in Coding End Joining during V(D)J Recombination. <i>Molecular and Cellular Biology</i> , 2013, 33, 3568-3579.	1.1	39
52	Structural and functional characterization of the PNKP-XRCC4-LigIV DNA repair complex. <i>Nucleic Acids Research</i> , 2017, 45, 6238-6251.	6.5	39
53	Nucleoid remodeling during environmental adaptation is regulated by HU-dependent DNA bundling. <i>Nature Communications</i> , 2020, 11, 2905.	5.8	39
54	Transient and stabilized complexes of Nsp7, Nsp8, and Nsp12 in SARS-CoV-2 replication. <i>Biophysical Journal</i> , 2021, 120, 3152-3165.	0.2	39

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55	Structural Insights into Yeast DNA Polymerase δ by Small Angle X-ray Scattering. <i>Journal of Molecular Biology</i> , 2009, 394, 377-382.	2.0	38
56	Human XPG nuclease structure, assembly, and activities with insights for neurodegeneration and cancer from pathogenic mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14127-14138.	3.3	37
57	A key interaction with RPA orients XPA in NER complexes. <i>Nucleic Acids Research</i> , 2020, 48, 2173-2188.	6.5	34
58	Comparison of HOCl traps with myeloperoxidase inhibitors in prevention of low density lipoprotein oxidation. <i>BBA - Proteins and Proteomics</i> , 2000, 1481, 109-118.	2.1	33
59	The <i>Staphylococcus aureus</i> extracellular adherence protein (Eap) adopts an elongated but structured conformation in solution. <i>Protein Science</i> , 2007, 16, 2605-2617.	3.1	32
60	Structural Basis for Interactions Between Contactin Family Members and Protein-tyrosine Phosphatase Receptor Type G in Neural Tissues. <i>Journal of Biological Chemistry</i> , 2016, 291, 21335-21349.	1.6	32
61	Modeling Structure and Dynamics of Protein Complexes with SAXS Profiles. <i>Methods in Molecular Biology</i> , 2018, 1764, 449-473.	0.4	31
62	Structural characterisation of nucleoside loaded low density lipoprotein as a main criterion for the applicability as drug delivery system. <i>Chemistry and Physics of Lipids</i> , 2003, 123, 193-207.	1.5	23
63	Flexible Tethering of ASPP Proteins Facilitates PP-1c Catalysis. <i>Structure</i> , 2019, 27, 1485-1496.e4.	1.6	23
64	Kinetics of tryptophan oxidation in plasma lipoproteins by myeloperoxidase-generated HOCl. <i>FEBS Journal</i> , 2000, 267, 4137-4143.	0.2	22
65	An atypical BRCT-BRCT interaction with the XRCC1 scaffold protein compacts human DNA Ligase III β within a flexible DNA repair complex. <i>Nucleic Acids Research</i> , 2021, 49, 306-321.	6.5	21
66	Predictive high-throughput screening of PEGylated lipids in oligonucleotide-loaded lipid nanoparticles for neuronal gene silencing. <i>Nanoscale Advances</i> , 2022, 4, 2107-2123.	2.2	21
67	The Immunoglobulin-like Domains 1 and 2 of the Protein Tyrosine Phosphatase LAR Adopt an Unusual Horseshoe-like Conformation. <i>Journal of Molecular Biology</i> , 2011, 408, 616-627.	2.0	19
68	Conformational Plasticity of the Immunoglobulin Fc Domain in Solution. <i>Structure</i> , 2018, 26, 1007-1014.e2.	1.6	19
69	X-ray scattering reveals disordered linkers and dynamic interfaces in complexes and mechanisms for λ -DNA double-strand break repair impacting cell and cancer biology. <i>Protein Science</i> , 2021, 30, 1735-1756.	3.1	19
70	Structural analysis of a new carotenoid-binding protein: the C-terminal domain homolog of the OCP. <i>Scientific Reports</i> , 2020, 10, 15564.	1.6	18
71	Switchable resolution in soft x-ray tomography of single cells. <i>PLoS ONE</i> , 2020, 15, e0227601.	1.1	18
72	Hybrid Methods Reveal Multiple Flexibly Linked DNA Polymerases within the Bacteriophage T7 Replisome. <i>Structure</i> , 2017, 25, 157-166.	1.6	17

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73	Quantitative Protein Corona Composition and Dynamics on Carbon Nanotubes in Biological Environments. <i>Angewandte Chemie</i> , 2020, 132, 23876-23885.	1.6	16
74	Rigid monoclonal antibodies improve detection of SARS-CoV-2 nucleocapsid protein. <i>MAbs</i> , 2021, 13, 1905978.	2.6	16
75	The structural basis for the functional comparability of factor VIII and the long-acting variant recombinant factor VIII Fc fusion protein. <i>Journal of Thrombosis and Haemostasis</i> , 2017, 15, 1167-1179.	1.9	14
76	Albumin in patients with liver disease shows an altered conformation. <i>Communications Biology</i> , 2021, 4, 731.	2.0	14
77	Structural basis for SHOC2 modulation of RAS signalling. <i>Nature</i> , 2022, 609, 400-407.	13.7	14
78	Visualizing functional dynamicity in the DNA-dependent protein kinase holoenzyme DNA-PK complex by integrating SAXS with cryo-EM. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 163, 74-86.	1.4	13
79	Distinct Structural Features of the Peroxide Response Regulator from Group A Streptococcus Drive DNA Binding. <i>PLoS ONE</i> , 2014, 9, e89027.	1.1	13
80	Interdomain Communication in the Mycobacterium tuberculosis Environmental Phosphatase Rv1364c. <i>Journal of Biological Chemistry</i> , 2009, 284, 29828-29835.	1.6	11
81	Atypical Response Regulator ChxR from Chlamydia trachomatis Is Structurally Poised for DNA Binding. <i>PLoS ONE</i> , 2014, 9, e91760.	1.1	11
82	A Structural Basis for Inhibition of the Complement Initiator Protease C1r by Lyme Disease Spirochetes. <i>Journal of Immunology</i> , 2021, 207, 2856-2867.	0.4	11
83	Combined Solution and Crystal Methods Reveal the Electrostatic Tethers That Provide a Flexible Platform for Replication Activities in the Bacteriophage T7 Replisome. <i>Biochemistry</i> , 2019, 58, 4466-4479.	1.2	10
84	Hydrogen bonds are a primary driving force for <i>de novo</i> protein folding. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 955-969.	1.1	9
85	Functional Relevance of Interleukin-1 Receptor Inter-domain Flexibility for Cytokine Binding and Signaling. <i>Structure</i> , 2019, 27, 1296-1307.e5.	1.6	6
86	Direct interaction of DNA repair protein tyrosyl DNA phosphodiesterase 1 and the DNA ligase III catalytic domain is regulated by phosphorylation of its flexible N-terminus. <i>Journal of Biological Chemistry</i> , 2021, 297, 100921.	1.6	6
87	A monomeric mycobacteriophage immunity repressor utilizes two domains to recognize an asymmetric DNA sequence. <i>Nature Communications</i> , 2022, 13, .	5.8	5
88	Binding to retinoblastoma pocket domain does not alter the inter-domain flexibility of the J domain of SV40 large T antigen. <i>Archives of Biochemistry and Biophysics</i> , 2012, 518, 111-118.	1.4	4
89	Partition of local anesthetic heptacaine homologs between phosphatidylcholine bilayers in unilamellar liposomes and aqueous phase: UV-VIS spectrophotometry study. <i>Die Pharmazie</i> , 2002, 57, 499.	0.3	4
90	Crystallization and X-ray diffraction analysis of the complement component-3 (C3) inhibitory domain of Efb from <i>Staphylococcus aureus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 285-288.	0.7	3

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91	Heparin-mediated dimerization of follistatin. <i>Experimental Biology and Medicine</i> , 2021, 246, 467-482.	1.1	3
92	An improved method for the sensitive monitoring of low density lipoprotein modification by myeloperoxidase. <i>Redox Report</i> , 2001, 6, 257-264.	1.4	1
93	Hydrogen bonds are a primary driving force for <i>de novo</i> protein folding. Corrigendum. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 380-380.	1.1	1
94	Nucleoid Remodeling During Environmental Adaptation as Seen Through Soft X-ray Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 2532-2533.	0.2	0
95	Scattering Methods and their Application in Colloid and Interface Science. By Otto Glatter. Elsevier, 2018. Paperback pp. 404. Price USD 225. Paperback (ISBN 9780128135808), ebook (ISBN 9780128135815).. <i>Journal of Applied Crystallography</i> , 2019, 52, 243-244.	1.9	0
96	Structural arrangement of the VH and VL domains in the COBRA ^Δ T-cell engaging single-chain diabody. <i>Antibody Therapeutics</i> , 2022, 5, 1-10.	1.2	0