# Matthias P Mayer

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 130 papers | 14,627 citations | 22099 59 h-index | 20900 115 g-index |
| 147 all docs | 147 docs citations | 147 times ranked | 12538 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Molecular mechanisms of heat shock factor 1 regulation. Trends in Biochemical Sciences, 2022, 47, 218-234. | 3.7 | 42 |
| 2 | The Hsp70-Chaperone Machines in Bacteria. Frontiers in Molecular Biosciences, 2021, 8, 694012. | 1.6 | 37 |
| 3 | Heat shock transcription factor 1 is SUMOylated in the activated trimeric state. Journal of Biological Chemistry, 2021, 296, 100324. | 1.6 | 15 |
| 4 | Co-chaperone involvement in knob biogenesis implicates host-derived chaperones in malaria virulence. PLoS Pathogens, 2021, 17, e1009969. | 2.1 | 9 |
| 5 | Complexin Suppresses Spontaneous Exocytosis by Capturing the Membrane-Proximal Regions of VAMP2 and SNAP25. Cell Reports, 2020, 32, 107926. | 2.9 | 33 |
| 6 | Structural characterization of an Arf dimer interface: molecular mechanism of Arfâ€dependent membrane scission. FEBS Letters, 2020, 594, 2240-2253. | 1.3 | 12 |
| 7 | Functional diversity between HSP70 paralogs caused by variable interactions with specific co-chaperones. Journal of Biological Chemistry, 2020, 295, 7301-7316. | 1.6 | 39 |
| 8 | Feedback regulation of heat shock factor 1 (Hsf1) activity by Hsp70â€mediated trimer unzipping and dissociation from <scp>DNA</scp>. EMBO Journal, 2020, 39, e104096. | 3.5 | 55 |
| 9 | Heat Shock Protein 90Î±â€“Dependent Bâ€Cellâ€2â€“Associated Transcription Factor 1 Promotes Hepatocellular Carcinoma Proliferation by Regulating MYC Protoâ€Oncogene câ€MYC mRNA Stability. Hepatology, 2019, 69, 1564-1581. | 3.6 | 34 |
| 10 | The Hsp70 chaperone network. Nature Reviews Molecular Cell Biology, 2019, 20, 665-680. | 16.1 | 721 |
| 11 | Toxic Activation of an AAA+ Protease by the Antibacterial Drug Cyclomarin A. Cell Chemical Biology, 2019, 26, 1169-1179.e4. | 2.5 | 36 |
| 12 | Hsp90 middle domain phosphorylation initiates a complex conformational program to recruit the ATPase-stimulating cochaperone Aha1. Nature Communications, 2019, 10, 2574. | 5.8 | 39 |
| 13 | Hsp70- and Hsp90-Mediated Regulation of the Conformation of p53 DNA Binding Domain and p53 Cancer Variants. Molecular Cell, 2019, 74, 831-843.e4. | 4.5 | 80 |
| 14 | Recent advances in the structural and mechanistic aspects of Hsp70 molecular chaperones. Journal of Biological Chemistry, 2019, 294, 2085-2097. | 1.6 | 202 |
| 15 | Bclaf1 promotes angiogenesis by regulating HIF-1Î± transcription in hepatocellular carcinoma. Oncogene, 2019, 38, 1845-1859. | 2.6 | 71 |
| 16 | The Hsp70â€“Hsp90 Chaperone Cascade in Protein Folding. Trends in Cell Biology, 2019, 29, 164-177. | 3.6 | 170 |
| 17 | Unstructured regions in IRE1Î± specify BiP-mediated destabilisation of the luminal domain dimer and repression of the UPR. ELife, 2019, 8, . | 2.8 | 35 |
| 18 | Hsp90 Breaks the Deadlock of the Hsp70 Chaperone System. Molecular Cell, 2018, 70, 545-552.e9. | 4.5 | 124 |

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|---|---|---|---|
| 19 | A prion-like domain in Hsp42 drives chaperone-facilitated aggregation of misfolded proteins. Journal of Cell Biology, 2018, 217, 1269-1285. | 2.3 | 57 |
| 20 | Molecular Mechanism of J-Domain-Triggered ATP Hydrolysis by Hsp70 Chaperones. Molecular Cell, 2018, 69, 227-237.e4. | 4.5 | 201 |
| 21 | Nucleotide exchange factors Fes1 and HspBP1 mimic substrate to release misfolded proteins from Hsp70. Nature Structural and Molecular Biology, 2018, 25, 83-89. | 3.6 | 42 |
| 22 | Protein Folding Mediated by Trigger Factor and Hsp70: New Insights from Single-Molecule Approaches. Journal of Molecular Biology, 2018, 430, 438-449. | 2.0 | 29 |
| 23 | Nucleotide Exchange Factors for Hsp70 Chaperones. Methods in Molecular Biology, 2018, 1709, 179-188. | 0.4 | 7 |
| 24 | Intra-molecular pathways of allosteric control in Hsp70s. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170183. | 1.8 | 45 |
| 25 | Isoform-Specific Phosphorylation in Human Hsp90Î² Affects Interaction with Clients and the Cochaperone Cdc37. Journal of Molecular Biology, 2017, 429, 732-752. | 2.0 | 30 |
| 26 | Large Rotation of the N-terminal Domain of Hsp90 Is Important for Interaction with Some but Not All Client Proteins. Journal of Molecular Biology, 2017, 429, 1406-1423. | 2.0 | 20 |
| 27 | The Hsp70 homolog Ssb affects ribosome biogenesis via the TORC1-Sch9 signaling pathway. Nature Communications, 2017, 8, 937. | 5.8 | 22 |
| 28 | Hormesis enables cells to handle accumulating toxic metabolites during increased energy flux. Redox Biology, 2017, 13, 674-686. | 3.9 | 31 |
| 29 | Profiling Ssb-Nascent Chain Interactions Reveals Principles of Hsp70-Assisted Folding. Cell, 2017, 170, 298-311.e20. | 13.5 | 154 |
| 30 | The Hsp40 Jâ€domain modulates Hsp70 conformation and ATPase activity with a semiâ€elliptical spring. Protein Science, 2017, 26, 1838-1851. | 3.1 | 18 |
| 31 | Molecular mechanism of thermosensory function of human heat shock transcription factor Hsf1. ELife, 2016, 5, . | 2.8 | 106 |
| 32 | Small heat shock proteins sequester misfolding proteins in near-native conformation for cellular protection and efficient refolding. Nature Communications, 2016, 7, 13673. | 5.8 | 147 |
| 33 | The oxidation state of the cytoplasmic glutathione redox system does not correlate with replicative lifespan in yeast. Npj Aging and Mechanisms of Disease, 2016, 2, 16028. | 4.5 | 20 |
| 34 | Multivalent contacts of the Hsp70 Ssb contribute to its architecture on ribosomes and nascent chain interaction. Nature Communications, 2016, 7, 13695. | 5.8 | 25 |
| 35 | Small Molecule Inhibitors Targeting Tec Kinase Block Unconventional Secretion of Fibroblast Growth Factor 2. Journal of Biological Chemistry, 2016, 291, 17787-17803. | 1.6 | 32 |
| 36 | Alternative modes of client binding enable functional plasticity of Hsp70. Nature, 2016, 539, 448-451. | 13.7 | 167 |

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| 37 | A model for handling cell stress. ELife, 2016, 5, . | 2.8 | 15 |
| 38 | Insights into the molecular mechanism of allostery in Hsp70s. Frontiers in Molecular Biosciences, 2015, 2, 58. | 1.6 | 64 |
| 39 | The Novolactone Natural Product Disrupts the Allosteric Regulation of Hsp70. Chemistry and Biology, 2015, 22, 87-97. | 6.2 | 49 |
| 40 | Crucial HSP70 co-chaperone complex unlocks metazoan protein disaggregation. Nature, 2015, 524, 247-251. | 13.7 | 320 |
| 41 | Hsp90: Breaking the Symmetry. Molecular Cell, 2015, 58, 8-20. | 4.5 | 148 |
| 42 | Pathways of allosteric regulation in Hsp70 chaperones. Nature Communications, 2015, 6, 8308. | 5.8 | 110 |
| 43 | Backbone circularization of Bacillus subtilis family 11 xylanase increases its thermostability and its resistance against aggregation. Molecular BioSystems, 2015, 11, 3231-3243. | 2.9 | 21 |
| 44 | Human Hsp70 Disaggregase Reverses Parkinsonâ€™s-Linked Î±-Synuclein Amyloid Fibrils. Molecular Cell, 2015, 59, 781-793. | 4.5 | 336 |
| 45 | c-Abl Mediated Tyrosine Phosphorylation of Aha1 Activates Its Co-chaperone Function in Cancer Cells. Cell Reports, 2015, 12, 1006-1018. | 2.9 | 54 |
| 46 | HIV-Tat Protein Forms Phosphoinositide-dependent Membrane Pores Implicated in Unconventional Protein Secretion. Journal of Biological Chemistry, 2015, 290, 21976-21984. | 1.6 | 46 |
| 47 | Differences in conformational dynamics within the Hsp90 chaperone family reveal mechanistic insights. Frontiers in Molecular Biosciences, 2014, 1, 4. | 1.6 | 36 |
| 48 | Light-Induced Differences in Conformational Dynamics of the Circadian Clock Regulator VIVID. Journal of Molecular Biology, 2014, 426, 601-610. | 2.0 | 14 |
| 49 | Chaperone Action at the Single-Molecule Level. Chemical Reviews, 2014, 114, 660-676. | 23.0 | 51 |
| 50 | An Extended Helical Conformation in Domain 3a of Munc18-1 Provides a Template for SNARE (Soluble) Tj ETQq0 0 0 rgBT /Overlock 10 T<br>Biological Chemistry, 2014, 289, 9639-9650. | 1.6 | 105 |
| 51 | Dynamic enzyme docking to the ribosome coordinates N-terminal processing with polypeptide folding. Nature Structural and Molecular Biology, 2013, 20, 843-850. | 3.6 | 58 |
| 52 | Hsp70 chaperone dynamics and molecular mechanism. Trends in Biochemical Sciences, 2013, 38, 507-514. | 3.7 | 368 |
| 53 | Modeling of Hsp70-Mediated Protein Refolding. Molecular Biology Intelligence Unit, 2013, , 169-176. | 0.2 | 0 |
| 54 | Analyzing Protein Dynamics Using Hydrogen Exchange Mass Spectrometry. Journal of Visualized Experiments, 2013, , . | 0.2 | 9 |

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|---|---|---|---|
| 55 | Functional Analysis of Hsp70 Inhibitors. PLoS ONE, 2013, 8, e78443. | 1.1 | 160 |
| 56 | Dynamics of the regulation of Hsp90 by the co-chaperone Sti1. EMBO Journal, 2012, 31, 1518-1528. | 3.5 | 85 |
| 57 | The universe of Hsp90. Biomolecular Concepts, 2012, 3, 79-97. | 1.0 | 16 |
| 58 | Charged linker sequence modulates eukaryotic heat shock protein 90 (Hsp90) chaperone activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2937-2942. | 3.3 | 107 |
| 59 | Structure and Dynamics of the ATP-Bound Open Conformation of Hsp70 Chaperones. Molecular Cell, 2012, 48, 863-874. | 4.5 | 362 |
| 60 | Cross-Monomer Substrate Contacts Reposition the Hsp90 N-Terminal Domain and Prime the Chaperone Activity. Journal of Molecular Biology, 2012, 415, 3-15. | 2.0 | 45 |
| 61 | The Unfolding Story of a Redox Chaperone. Cell, 2012, 148, 843-844. | 13.5 | 17 |
| 62 | From a Ratchet Mechanism to Random Fluctuations Evolution of Hsp90's Mechanochemical Cycle. Journal of Molecular Biology, 2012, 423, 462-471. | 2.0 | 47 |
| 63 | Allostery in the Hsp70 Chaperone Proteins. Topics in Current Chemistry, 2012, 328, 99-153. | 4.0 | 142 |
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| 65 | Automated detection and analysis of bimodal isotope peak distributions in H/D exchange mass spectrometry using HeXicon. International Journal of Mass Spectrometry, 2011, 302, 125-131. | 0.7 | 22 |
| 66 | The Chaperone Network Connected to Human Ribosome-Associated Complex. Molecular and Cellular Biology, 2011, 31, 1160-1173. | 1.1 | 77 |
| 67 | Lipids Trigger a Conformational Switch That Regulates Signal Recognition Particle (SRP)-mediated Protein Targeting. Journal of Biological Chemistry, 2011, 286, 23489-23497. | 1.6 | 39 |
| 68 | Nucleotide Exchange Factors for Hsp70 Chaperones. Methods in Molecular Biology, 2011, 787, 83-91. | 0.4 | 20 |
| 69 | CHIP participates in protein triage decisions by preferentially ubiquitinating Hsp70â€bound substrates. FEBS Journal, 2010, 277, 3353-3367. | 2.2 | 91 |
| 70 | Asna1/TRC40-mediated membrane insertion of tail-anchored proteins. Journal of Cell Science, 2010, 123, 1522-1530. | 1.2 | 53 |
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| 74 | Gymnastics of Molecular Chaperones. Molecular Cell, 2010, 39, 321-331. | 4.5 | 309 |
| 75 | Impaired Interdomain Communication in Mitochondrial Hsp70 Results in the Loss of Inward-directed Translocation Force. Journal of Biological Chemistry, 2009, 284, 2934-2946. | 1.6 | 16 |
| 76 | An intrinsic quality-control mechanism ensures unconventional secretion of fibroblast growth factor 2 in a folded conformation. Journal of Cell Science, 2009, 122, 3322-3329. | 1.2 | 38 |
| 77 | Targeting heat shock protein 90 with non-quinone inhibitors: A novel chemotherapeutic approach in human hepatocellular carcinoma. Hepatology, 2009, 50, 102-112. | 3.6 | 68 |
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| 82 | Molecular Basis for Regulation of the Heat Shock Transcription Factor Ïƒ32 by the DnaK and DnaJ Chaperones. Molecular Cell, 2008, 32, 347-358. | 4.5 | 151 |
| 83 | Hsp110 Is a Nucleotide-activated Exchange Factor for Hsp70. Journal of Biological Chemistry, 2008, 283, 8877-8884. | 1.6 | 142 |
| 84 | Dynamics of Trigger Factor Interaction with Translating Ribosomes. Journal of Biological Chemistry, 2008, 283, 4124-4132. | 1.6 | 82 |
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| 86 | Functional Characterization of the Atypical Hsp70 Subunit of Yeast Ribosome-associated Complex. Journal of Biological Chemistry, 2007, 282, 33977-33984. | 1.6 | 38 |
| 87 | The Drosophila mitotic inhibitor FrÃ¼hstart specifically binds to the hydrophobic patch of cyclins. EMBO Reports, 2007, 8, 490-496. | 2.0 | 23 |
| 88 | Modeling Hsp70-Mediated Protein Folding. Biophysical Journal, 2006, 91, 496-507. | 0.2 | 37 |
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| 90 | Allosteric Regulation of Hsp70 Chaperones by a Proline Switch. Molecular Cell, 2006, 21, 359-367. | 4.5 | 166 |

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| 91 | A Multimeric Membrane Protein Reveals 14-3-3 Isoform Specificity in Forward Transport in Yeast. Traffic, 2006, 7, 903-916. | 1.3 | 23 |
| 92 | Chaperone network in the yeast cytosol: Hsp110 is revealed as an Hsp70 nucleotide exchange factor. EMBO Journal, 2006, 25, 2510-2518. | 3.5 | 243 |
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| 95 | Amide Hydrogen Exchange Reveals Conformational Changes in Hsp70 Chaperones Important for Allosteric Regulation. Journal of Biological Chemistry, 2006, 281, 16493-16501. | 1.6 | 111 |
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| 114 | Bag-1M Accelerates Nucleotide Release for Human Hsc70 and Hsp70 and Can Act Concentration-dependent as Positive and Negative Cofactor. Journal of Biological Chemistry, 2001, 276, 32538-32544. | 1.6 | 146 |
| 115 | Pseudo-T-even Bacteriophage RB49 Encodes CocO, a Cochaperonin for GroEL, Which Can Substitute for Escherichia coli's GroES and Bacteriophage T4's Gp31. Journal of Biological Chemistry, 2001, 276, 8720-8726. | 1.6 | 27 |
| 116 | Multistep mechanism of substrate binding determines chaperone activity of Hsp70. Nature Structural Biology, 2000, 7, 586-593. | 9.7 | 335 |
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| 118 | Modulation of substrate specificity of the DnaK chaperone by alteration of a hydrophobic arch. Journal of Molecular Biology, 2000, 304, 245-251. | 2.0 | 65 |
| 119 | Mechanism of regulation of Hsp70 chaperones by DnaJ cochaperones. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5452-5457. | 3.3 | 521 |
| 120 | Molecular chaperones: The busy life of Hsp90. Current Biology, 1999, 9, R322-R325. | 1.8 | 138 |
| 121 | Investigation of the Interaction between DnaK and DnaJ by Surface Plasmon Resonance Spectroscopy. Journal of Molecular Biology, 1999, 289, 1131-1144. | 2.0 | 126 |
| 122 | Mutations in the DnaK chaperone affecting interaction with the DnaJ cochaperone. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15229-15234. | 3.3 | 170 |
| 123 | Modulation of the Escherichia coli Ïƒ E (RpoE) heatâ€shock transcriptionâ€factor activity by the RseA, RseB and RseC proteins. Molecular Microbiology, 1997, 24, 355-371. | 1.2 | 327 |
| 124 | A new set of useful cloning and expression vectors derived from pBlueScript. Gene, 1995, 163, 41-46. | 1.0 | 210 |
| 125 | Protein farnesyltransferase: production in Escherichia coli and imrmmoaffinity purification of the heterodimer from Saccharomyces cerevisiae. Gene, 1993, 132, 41-47. | 1.0 | 48 |
| 126 | Disruption and mapping ofIDI1, the gene for isopentenyl diphosphate isomerase inSaccharomyces cerevisiae. Yeast, 1992, 8, 743-748. | 0.8 | 35 |

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| 128 | Molecular oxygen and the state of geometric isomerism of intermediates are essential in the carotene desaturation and cyclization reactions in daffodil chromoplasts. FEBS Journal, 1989, 184, 141-150. | 0.2 | 101 |
| 129 | The in vitro mode of action of bleaching herbicides on the desaturation of 15-cis-phytoene and cis-Î¶-carotene in isolated daffodil chromoplasts. Pesticide Biochemistry and Physiology, 1989, 34, 111-117. | 1.6 | 38 |
| 130 | Conformational Dynamics of the Hsp90 Chaperone Machine. , 0, 2007, . | | 0 |