Robert TampÃ©

List of Publications by Year
in descending order

313 papers	18,098 citations	13865 67 h-index	19190 118 g-index
340 all docs	340 docs citations	340 times ranked	16245 citing authors

#	Article	IF	Citations
1	A viral inhibitor of peptide transporters for antigen presentation. Nature, 1995, 375, 415-418.	27.8	596
2	A Critical Role for Tapasin in the Assembly and Function of Multimeric MHC Class I-TAP Complexes. Science, 1997, 277, 1306-1309.	12.6	477
3	Stochastic sensing of proteins with receptor-modified solid-state nanopores. Nature Nanotechnology, 2012, 7, 257-263.	31.5	440
4	High-Affinity Adaptors for Switchable Recognition of Histidine-Tagged Proteins. Journal of the American Chemical Society, 2005, 127, 10205-10215.	13.7	370
5	Dynamic Superresolution Imaging of Endogenous Proteins on Living Cells at Ultra-High Density. Biophysical Journal, 2010, 99, 1303-1310.	0.5	364
6	Spatial and mechanistic separation of cross-presentation and endogenous antigen presentation. Nature Immunology, 2008, 9, 558-566.	14.5	356
7	Integrins Î²1 and Î²3 exhibit distinct dynamic nanoscale organizations inside focal adhesions. Nature Cell Biology, 2012, 14, 1057-1067.	10.3	339
8	Early phagosomes in dendritic cells form a cellular compartment sufficient for cross presentation of exogenous antigens. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12889-12894.	7.1	334
9	Molecular mechanism and species specificity of TAP inhibition by herpes simplex virus ICP47.. EMBO Journal, 1996, 15, 3247-3255.	7.8	303
10	Identifying MHC Class I Epitopes by Predicting the TAP Transport Efficiency of Epitope Precursors. Journal of Immunology, 2003, 171, 1741-1749.	0.8	290
11	Structure of the human MHC-I peptide-loading complex. Nature, 2017, 551, 525-528.	27.8	284
12	Structure and mechanism of ABC transporters. Current Opinion in Structural Biology, 2002, 12, 754-760.	5.7	282
13	A sequential model for peptide binding and transport by the transporters associated with antigen processing. Immunity, 1994, 1, 491-500.	14.3	275
14	TLR Signals Induce Phagosomal MHC-I Delivery from the Endosomal Recycling Compartment to Allow Cross-Presentation. Cell, 2014, 158, 506-521.	28.9	270
15	Structural and Mechanistic Principles of ABC Transporters. Annual Review of Biochemistry, 2020, 89, 605-636.	11.1	252
16	Cross-presenting human Î³Î´ T cells induce robust CD8 ⁺ Î±Î² T cell responses. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2307-2312.	7.1	229
17	Synthesis and Characterization of Chelator-Lipids for Reversible Immobilization of Engineered Proteins at Self-Assembled Lipid Interfaces. Journal of the American Chemical Society, 1994, 116, 8485-8491.	13.7	202
18	Specific and Stable Fluorescence Labeling of Histidine-Tagged Proteins for Dissecting Multi-Protein Complex Formation. Journal of the American Chemical Society, 2006, 128, 2365-2372.	13.7	200

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19	A functionally defective allele of TAP1 results in loss of MHC class I antigen presentation in a human lung cancer. Nature Genetics, 1996, 13, 210-213.	21.4	186
20	Conformation space of a heterodimeric ABC exporter under turnover conditions. Nature, 2019, 571, 580-583.	27.8	185
21	Functional expression and purification of the ABC transporter complex associated with antigen processing (TAP) in insect cells. FEBS Letters, 1994, 351, 443-447.	2.8	183
22	Recognition principle of the TAP transporter disclosed by combinatorial peptide libraries. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8976-8981.	7.1	181
23	The Transporter Associated With Antigen Processing: Function and Implications in Human Diseases. Physiological Reviews, 2002, 82, 187-204.	28.8	179
24	Structural and functional diversity calls for a new classification of ABC transporters. FEBS Letters, 2020, 594, 3767-3775.	2.8	169
25	Varicelloviruses avoid T cell recognition by UL49.5-mediated inactivation of the transporter associated with antigen processing. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5144-5149.	7.1	168
26	A Metal-Chelating Microscopy Tip as a New Toolbox for Single-Molecule Experiments by Atomic Force Microscopy. Biophysical Journal, 2000, 78, 3275-3285.	0.5	166
27	Access of soluble antigens to the endoplasmic reticulum can explain cross-presentation by dendritic cells. Nature Immunology, 2005, 6, 107-113.	14.5	166
28	The ATP Hydrolysis Cycle of the Nucleotide-binding Domain of the Mitochondrial ATP-binding Cassette Transporter Mdl1p. Journal of Biological Chemistry, 2003, 278, 26862-26869.	3.4	160
29	Fabs Enable Single Particle cryoEM Studies of Small Proteins. Structure, 2012, 20, 582-592.	3.3	154
30	The ABCs of Immunology: Structure and Function of TAP, the Transporter Associated with Antigen Processing. Physiology, 2004, 19, 216-224.	3.1	153
31	Functional Dissection of the Transmembrane Domains of the Transporter Associated with Antigen Processing (TAP). Journal of Biological Chemistry, 2004, 279, 10142-10147.	3.4	147
32	High-Affinity Chelator Thiols for Switchable and Oriented Immobilization of Histidine-Tagged Proteins: A Generic Platform for Protein Chip Technologies. Chemistry - A European Journal, 2005, 11, 5249-5259.	3.3	146
33	Immune escape of melanoma: first evidence of structural alterations in two distinct components of the MHC class I antigen processing pathway. Cancer Research, 2001, 61, 8647-50.	0.9	145
34	Lipid mono- and bilayer supported on polymer films: composite polymer-lipid films on solid substrates. Biophysical Journal, 1994, 67, 217-226.	0.5	144
35	Ribosome recycling depends on a mechanistic link between the FeS cluster domain and a conformational switch of the twin-ATPase ABCE1. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3228-3233.	7.1	142
36	Molecular mechanism and species specificity of TAP inhibition by herpes simplex virus ICP47. EMBO Journal, 1996, 15, 3247-55.	7.8	138

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37	The MHC I loading complex: a multitasking machinery in adaptive immunity. Trends in Biochemical Sciences, 2013, 38, 412-420.	7.5	117
38	Production of Recombinant and Tagged Proteins in the Hyperthermophilic Archaeon Sulfolobus solfataricus. Applied and Environmental Microbiology, 2006, 72, 102-111.	3.1	116
39	Structure of the TAPBPRâ€“MHC I complex defines the mechanism of peptide loading and editing. Science, 2017, 358, 1060-1064.	12.6	115
40	Subnanometre-resolution electron cryomicroscopy structure of a heterodimeric ABC exporter. Nature, 2015, 517, 396-400.	27.8	114
41	EIGER detector: application in macromolecular crystallography. Acta Crystallographica Section D: Structural Biology, 2016, 72, 1036-1048.	2.3	114
42	Allosteric crosstalk between peptide-binding, transport, and ATP hydrolysis of the ABC transporter TAP. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3732-3737.	7.1	113
43	Molecular Recognition of Histidine-Tagged Molecules by Metal-Chelating Lipids Monitored by Fluorescence Energy Transfer and Correlation SpectroscopyÂ§. Journal of the American Chemical Society, 1998, 120, 2753-2763.	13.7	112
44	A subset of annular lipids is linked to the flippase activity of an ABC transporter. Nature Chemistry, 2015, 7, 255-262.	13.6	112
45	Function of the transport complex TAP in cellular immune recognition. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1461, 405-419.	2.6	107
46	ABC proteins in antigen translocation and viral inhibition. Nature Chemical Biology, 2010, 6, 572-580.	8.0	106
47	Mitochondrial ABC proteins in health and disease. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 681-690.	1.0	102
48	Structural Organization of Essential Iron-Sulfur Clusters in the Evolutionarily Highly Conserved ATP-binding Cassette Protein ABCE1. Journal of Biological Chemistry, 2007, 282, 14598-14607.	3.4	99
49	Molecular organization of histidine-tagged biomolecules at self-assembled lipid interfaces using a novel class of chelator lipids.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9014-9018.	7.1	97
50	Specificity of the proteasome and the TAP transporter. Current Opinion in Immunology, 1999, 11, 203-208.	5.5	97
51	Requirements for Peptide Binding to the Human Transporter Associated with Antigen Processing Revealed by Peptide Scans and Complex Peptide Libraries. Journal of Biological Chemistry, 1995, 270, 18512-18516.	3.4	95
52	Molecular Selfâ€Assembly, Chemical Lithography, and Biochemical Tweezers: A Path for the Fabrication of Functional Nanometerâ€Scale Protein Arrays. Advanced Materials, 2008, 20, 471-477.	21.0	95
53	Live-cell protein labelling with nanometre precision by cell squeezing. Nature Communications, 2016, 7, 10372.	12.8	94
54	Analysis of the major histocompatibility complex class I antigen presentation machinery in normal and malignant renal cells: evidence for deficiencies associated with transformation and progression. Cancer Research, 1996, 56, 1756-60.	0.9	91

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55	Down-regulation of the MHC class I antigen-processing machinery after oncogenic transformation of murine fibroblasts. European Journal of Immunology, 1998, 28, 122-133.	2.9	86
56	Structural arrangement of the transmission interface in the antigen ABC transport complex TAP. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5551-5556.	7.1	86
57	Mechanistic determinants of the directionality and energetics of active export by a heterodimeric ABC transporter. Nature Communications, 2014, 5, 5419.	12.8	86
58	Effects of Major-Histocompatibility-Complex-Encoded Subunits on the Peptidase and Proteolytic Activities of Human 20S Proteasomes. Cleavage of Proteins and Antigenic Peptides. FEBS Journal, 1996, 235, 404-415.	0.2	85
59	Molecular Mechanism and Structural Aspects of Transporter Associated with Antigen Processing Inhibition by the Cytomegalovirus Protein US6. Journal of Biological Chemistry, 2001, 276, 48031-48039.	3.4	85
60	Native protein nanolithography that can write, read and erase. Nature Nanotechnology, 2007, 2, 220-225.	31.5	83
61	EB1 interacts with outwardly curved and straight regions of the microtubule lattice. Nature Cell Biology, 2016, 18, 1102-1108.	10.3	81
62	The active domain of the herpes simplex virus protein ICP47: A potent inhibitor of the transporter associated with antigen processing (TAP). Journal of Molecular Biology, 1997, 272, 484-492.	4.2	78
63	Conformation of peptides bound to the transporter associated with antigen processing (TAP). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1349-1354.	7.1	77
64	Structure of the 40Sâ€“ABCE1 post-splitting complex in ribosome recycling and translation initiation. Nature Structural and Molecular Biology, 2017, 24, 453-460.	8.2	77
65	Synthetic protein-conductive membrane nanopores built with DNA. Nature Communications, 2019, 10, 5018.	12.8	76
66	The Binding Specificity of OppA Determines the Selectivity of the Oligopeptide ATP-binding Cassette Transporter. Journal of Biological Chemistry, 2004, 279, 32301-32307.	3.4	75
67	Multifaceted structures and mechanisms of ABC transport systems in health and disease. Current Opinion in Structural Biology, 2018, 51, 116-128.	5.7	74
68	The formation of ordered nanoclusters controls cadherin anchoring to actin and cellâ€“cell contact fluidity. Journal of Cell Biology, 2015, 210, 333-346.	5.2	73
69	Combinatorial peptide libraries reveal the ligand-binding mechanism of the oligopeptide receptor OppA of Lactococcus lactis. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 12487-12492.	7.1	71
70	Nucleotide binding to the hydrophilic C-terminal domain of the transporter associated with antigen processing (TAP). Journal of Biological Chemistry, 1994, 269, 14032-7.	3.4	71
71	How do ABC transporters drive transport?. Biological Chemistry, 2004, 385, 927-933.	2.5	70
72	Peptides Induce ATP Hydrolysis at Both Subunits of the Transporter Associated with Antigen Processing. Journal of Biological Chemistry, 2003, 278, 29686-29692.	3.4	68

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73	Varicellovirus UL49.5 Proteins Differentially Affect the Function of the Transporter Associated with Antigen Processing, TAP. PLoS Pathogens, 2008, 4, e1000080.	4.7	68
74	Crystal structure and mechanistic basis of a functional homolog of the antigen transporter TAP. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E438-E447.	7.1	67
75	Nucleotide binding to the hydrophilic C-terminal domain of the transporter associated with antigen processing (TAP).. Journal of Biological Chemistry, 1994, 269, 14032-14037.	3.4	67
76	Downregulation of TAP1 in B lymphocytes by cellular and Epstein-Barr virus-encoded interleukin-10. Blood, 1997, 90, 2390-7.	1.4	66
77	Multiplexed Parallel Single Transport Recordings on Nanopore Arrays. Nano Letters, 2010, 10, 5080-5087.	9.1	65
78	Functional Non-equivalence of ATP-binding Cassette Signature Motifs in the Transporter Associated with Antigen Processing (TAP). Journal of Biological Chemistry, 2004, 279, 46073-46081.	3.4	64
79	Tying up loose ends: ribosome recycling in eukaryotes and archaea. Trends in Biochemical Sciences, 2013, 38, 64-74.	7.5	64
80	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. Nature Communications, 2015, 6, 8857.	12.8	64
81	Kinetic analysis of peptide binding to the TAP transport complex: evidence for structural rearrangements induced by substrate binding. Journal of Molecular Biology, 1999, 294, 1203-1213.	4.2	63
82	Selective and ATP-dependent Translocation of Peptides by the Homodimeric ATP Binding Cassette Transporter TAP-like (ABCB9). Journal of Biological Chemistry, 2005, 280, 23631-23636.	3.4	63
83	Molecular Printboards as a General Platform for Protein Immobilization: A Supramolecular Solution to Nonspecific Adsorption. Angewandte Chemie - International Edition, 2007, 46, 4104-4107.	13.8	63
84	The transporter associated with antigen processing: a key player in adaptive immunity. Biological Chemistry, 2015, 396, 1059-1072.	2.5	62
85	Reduced membrane major histocompatibility complex class I density and stability in a subset of human renal cell carcinomas with low TAP and LMP expression. Clinical Cancer Research, 1996, 2, 1427-33.	7.0	62
86	High-resolution AFM-imaging and mechanistic analysis of the 20 S proteasome. Journal of Molecular Biology, 1999, 288, 1027-1036.	4.2	61
87	Functional Immobilization of a DNA-Binding Protein at a Membrane Interface via Histidine Tag and Synthetic Chelator Lipidsâ€. Biochemistry, 1996, 35, 1100-1105.	2.5	60
88	Intracellular peptide transporters in human â€" compartmentalization of the â€œpeptidomeâ€. Pflugers Archiv European Journal of Physiology, 2007, 453, 591-600.	2.8	60
89	Structure and Dynamics of Membrane-associated ICP47, a Viral Inhibitor of the MHC I Antigen-processing Machinery. Journal of Biological Chemistry, 2006, 281, 30365-30372.	3.4	58
90	Proofreading of Peptideâ€"MHC Complexes through Dynamic Multivalent Interactions. Frontiers in Immunology, 2017, 8, 65.	4.8	58

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91	Downregulation of the constitutive tapasin expression in human tumor cells of distinct origin and its transcriptional upregulation by cytokines. Tissue Antigens, 2001, 57, 39-45.	1.0	57
92	In situ assembly of macromolecular complexes triggered by light. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6146-6151.	7.1	56
93	Asymmetric ATP Hydrolysis Cycle of the Heterodimeric Multidrug ABC Transport Complex TmrAB from Thermus thermophilus. Journal of Biological Chemistry, 2011, 286, 7104-7115.	3.4	54
94	Modulation of the antigen transport machinery TAP by friends and enemies. FEBS Letters, 2006, 580, 1156-1163.	2.8	53
95	The macromolecular peptide-loading complex in MHC class I-dependent antigen presentation. Cellular and Molecular Life Sciences, 2006, 63, 653-662.	5.4	53
96	Enhanced expression of human ABC-transporter tap is associated with cellular resistance to mitoxantrone. FEBS Letters, 2001, 503, 179-184.	2.8	52
97	The transporter associated with antigen processing TAP: structure and function. FEBS Letters, 1999, 464, 108-112.	2.8	51
98	Self-Assembled Monolayers with Latent Aldehydes for Protein Immobilization. Bioconjugate Chemistry, 2007, 18, 247-253.	3.6	51
99	ABC transporters in adaptive immunity. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 449-460.	2.4	51
100	Molecular mechanism of peptide editing in the tapasinâ€"MHC I complex. Scientific Reports, 2016, 6, 19085.	3.3	51
101	Structure of the Viral TAP-Inhibitor ICP47 Induced by Membrane Associationâ€. Biochemistry, 1997, 36, 4694-4700.	2.5	50
102	Two-substrate association with the 20S proteasome at single-molecule level. EMBO Journal, 2004, 23, 2488-2497.	7.8	49
103	Design of Supported Membranes Tethered via Metal-Affinity Ligand-Receptor Pairs. Biophysical Journal, 2000, 79, 3144-3152.	0.5	47
104	Specific Orientation and Two-dimensional Crystallization of the Proteasome at Metal-chelating Lipid Interfaces. Journal of Biological Chemistry, 2002, 277, 36321-36328.	3.4	46
105	Self-Assembled Monolayers Containing Terminal Mono-, Bis-, and Tris-nitrilotriacetic Acid Groups:â€‰ Characterization and Application. Langmuir, 2008, 24, 4959-4967.	3.5	46
106	Mutual A domain interactions in the force sensing protein von Willebrand factor. Journal of Structural Biology, 2017, 197, 57-64.	2.8	46
107	Membrane Topology of the Transporter Associated with Antigen Processing (TAP1) within an Assembled Functional Peptide-loading Complex. Journal of Biological Chemistry, 2006, 281, 6455-6462.	3.4	45
108	Purification and Reconstitution of the Antigen Transport Complex TAP. Journal of Biological Chemistry, 2009, 284, 33740-33749.	3.4	45

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109	Coupled ATPase-adenylate kinase activity in ABC transporters. Nature Communications, 2016, 7, 13864.	12.8	45
110	Kinetics of antigenic peptide binding to the class II major histocompatibility molecule I-Ad.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 4661-4665.	7.1	44
111	Structure of the Active Domain of the Herpes Simplex Virus Protein ICP47 in Water/Sodium Dodecyl Sulfate Solution Determined by Nuclear Magnetic Resonance Spectroscopyâ€,â€¡. Biochemistry, 1999, 38, 13692-13698.	2.5	44
112	Piezo Dispensed Microarray of Multivalent Chelating Thiols for Dissecting Complex Proteinâˆ'Protein Interactions. Analytical Chemistry, 2006, 78, 3643-3650.	6.5	44
113	Orientation and Two-Dimensional Organization of Proteins at Chelator Lipid Interfaces. Biological Chemistry, 1998, 379, 1151-1160.	2.5	43
114	Mechanistic Basis for Epitope Proofreading in the Peptide-Loading Complex. Journal of Immunology, 2015, 195, 4503-4513.	0.8	43
115	Anchoring of Histidineâ€Tagged Proteins to Molecular Printboards: Selfâ€assembly, Thermodynamic Modeling, and Patterning. Chemistry - A European Journal, 2008, 14, 2044-2051.	3.3	42
116	Antigenic Peptide Recognition on the Human ABC Transporter TAP Resolved by DNP-Enhanced Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2016, 138, 13967-13974.	13.7	42
117	Conformational Coupling and trans-Inhibition in the Human Antigen Transporter Ortholog TmrAB Resolved with Dipolar EPR Spectroscopy. Journal of the American Chemical Society, 2018, 140, 4527-4533.	13.7	42
118	SLAP: Small Labeling Pair for Singleâ€Molecule Superâ€Resolution Imaging. Angewandte Chemie - International Edition, 2015, 54, 10216-10219.	13.8	41
119	MHC I chaperone complexes shaping immunity. Current Opinion in Immunology, 2019, 58, 9-15.	5.5	41
120	Identification of Two Interaction Sites in SecY that Are Important for the Functional Interaction with SecA. Journal of Molecular Biology, 2006, 361, 839-849.	4.2	40
121	Identification of a Lysosomal Peptide Transport System Induced during Dendritic Cell Development. Journal of Biological Chemistry, 2007, 282, 37836-37843.	3.4	40
122	Live-Cell Targeting of His-Tagged Proteins by Multivalent <i>N</i>-Nitrilotriacetic Acid Carrier Complexes. Journal of the American Chemical Society, 2014, 136, 13975-13978.	13.7	40
123	Glycophorin-induced cholesterol-phospholipid domains in dimyristoylphosphatidylcholine bilayer vesicles. Biochemistry, 1991, 30, 4909-4916.	2.5	39
124	Mechanism of Substrate Sensing and Signal Transmission within an ABC Transporter. Journal of Biological Chemistry, 2007, 282, 3871-3880.	3.4	39
125	Inhibition of HIVâ€1 by a Peptide Ligand of the Genomic RNA Packaging Signal Ï^. ChemMedChem, 2008, 3, 749-755.	3.2	39
126	Native Laser Lithography of His-Tagged Proteins by Uncaging of Multivalent Chelators. Journal of the American Chemical Society, 2010, 132, 5932-5933.	13.7	39

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127	The lysosomal polypeptide transporter TAPL is stabilized by the interaction with LAMP-1 and LAMP-2. Journal of Cell Science, 2012, 125, 4230-40.	2.0	39
128	His-tagged norovirus-like particles: A versatile platform for cellular delivery and surface display. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 22-31.	4.3	39
129	Self assembly of covalently anchored phospholipid supported membranes by use of DODA-Suc-NHS-lipids. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1196, 227-230.	2.6	37
130	Differential Protein Assembly on Micropatterned Surfaces with Tailored Molecular and Surface Multivalency. ChemBioChem, 2006, 7, 1325-1329.	2.6	37
131	Highly Parallel Transport Recordings on a Membrane-on-Nanopore Chip at Single Molecule Resolution. Nano Letters, 2014, 14, 1674-1680.	9.1	37
132	Diffusion measurement of fluorescence-labeled amphiphilic molecules with a standard fluorescence microscope. Biophysical Journal, 1997, 72, 1701-1710.	0.5	36
133	Affinity, Specificity, Diversity: A Challenge for the ABC Transporter TAP in Cellular Immunity. ChemBioChem, 2000, 1, 16-35.	2.6	36
134	Tuning the Cellular Trafficking of the Lysosomal Peptide Transporter TAPL by its N-terminal Domain. Traffic, 2010, 11, 383-393.	2.7	36
135	Energy transfer between two peptides bound to one MHC class II molecule. Science, 1991, 254, 87-89.	12.6	35
136	Intracellular Location, Complex Formation, and Function of the Transporter Associated with Antigen Processing in Yeast. FEBS Journal, 1997, 245, 266-272.	0.2	35
137	Quantum-Yield-Optimized Fluorophores for Site-Specific Labeling and Super-Resolution Imaging. Journal of the American Chemical Society, 2011, 133, 8090-8093.	13.7	35
138	Single liposome analysis of peptide translocation by the ABC transporter TAPL. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2046-2051.	7.1	35
139	ABCE1 Controls Ribosome Recycling by an Asymmetric Dynamic Conformational Equilibrium. Cell Reports, 2019, 28, 723-734.e6.	6.4	34
140	Oriented Binding of the His6-Tagged Carboxyl-Tail of the L-type Ca2+ Channel Î±1-Subunit to a New NTA-Functionalized Self-Assembled Monolayer. Langmuir, 2004, 20, 5885-5890.	3.5	33
141	ABC Transporters and Immunity: Mechanism of Self-Defense. Biochemistry, 2012, 51, 4981-4989.	2.5	33
142	The Stalk Domain and the Glycosylation Status of the Activating Natural Killer Cell Receptor NKp30 Are Important for Ligand Binding. Journal of Biological Chemistry, 2012, 287, 31527-31539.	3.4	33
143	Control of mRNA Translation by Versatile ATP-Driven Machines. Trends in Biochemical Sciences, 2019, 44, 167-180.	7.5	33
144	A loop structure allows TAPBPR to exert its dual function as MHC I chaperone and peptide editor. ELife, 2020, 9, .	6.0	33

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145	Herpes viral proteins blocking the transporter associated with antigen processing TAP--from genes to function and structure. Current Topics in Microbiology and Immunology, 2002, 269, 87-99.	1.1	33
146	Viral evasion of the MHC class I antigen-processing machinery. Pflugers Archiv European Journal of Physiology, 2005, 451, 409-417.	2.8	32
147	Protein-Resistant Self-Assembled Monolayers on Gold with Latent Aldehyde Functions. Langmuir, 2007, 23, 5571-5577.	3.5	32
148	The Varicellovirus UL49.5 Protein Blocks the Transporter Associated with Antigen Processing (TAP) by Inhibiting Essential Conformational Transitions in the 6+6 Transmembrane TAP Core Complex. Journal of Immunology, 2008, 181, 4894-4907.	0.8	32
149	Detection of metal binding sites on functional S-layer nanoarrays using single molecule force spectroscopy. Journal of Structural Biology, 2009, 168, 217-222.	2.8	32
150	Epstein-Barr Viral BNLF2a Protein Hijacks the Tail-anchored Protein Insertion Machinery to Block Antigen Processing by the Transport Complex TAP. Journal of Biological Chemistry, 2011, 286, 41402-41412.	3.4	32
151	Antigen Translocation Machineries in Adaptive Immunity and Viral Immune Evasion. Journal of Molecular Biology, 2015, 427, 1102-1118.	4.2	32
152	Single-molecule FRET reveals the pre-initiation and initiation conformations of influenza virus promoter RNA. Nucleic Acids Research, 2016, 44, gkw884.	14.5	32
153	Structure and Dynamics of Antigenic Peptides in Complex with TAP. Frontiers in Immunology, 2017, 8, 10.	4.8	32
154	Thermodynamics of Peptide Binding to the Transporter Associated with Antigen Processing (TAP). Journal of Molecular Biology, 2002, 324, 965-973.	4.2	31
155	Control of Nanomolar Interaction and Inâ€…Situ Assembly of Proteins in Four Dimensions by Light. Angewandte Chemie - International Edition, 2013, 52, 848-853.	13.8	31
156	Expression and function of the peptide transporters in escape variants of human renal cell carcinomas. Experimental Hematology, 1997, 25, 608-14.	0.4	31
157	Expression of TAP1 by human trophoblast. European Journal of Immunology, 1995, 25, 543-548.	2.9	30
158	Metal-Chelating Amino Acids As Building Blocks For Synthetic Receptors Sensing Metal Ions And Histidine-Tagged Proteins. ChemBioChem, 2003, 4, 1340-1344.	2.6	30
159	Multifunctional Chaperone and Quality Control Complexes in Adaptive Immunity. Annual Review of Biophysics, 2020, 49, 135-161.	10.0	30
160	MHC I assembly and peptide editing â€” chaperones, clients, and molecular plasticity in immunity. Current Opinion in Immunology, 2021, 70, 48-56.	5.5	30
161	A single power stroke by ATP binding drives substrate translocation in a heterodimeric ABC transporter. ELife, 2020, 9, .	6.0	30
162	Direct evidence that the N-terminal extensions of the TAP complex act as autonomous interaction scaffolds for the assembly of the MHC I peptide-loading complex. Cellular and Molecular Life Sciences, 2012, 69, 3317-3327.	5.4	29

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163	ABC Transporters in Dynamic Macromolecular Assemblies. Journal of Molecular Biology, 2018, 430, 4481-4495.	4.2	29
164	Engineered fusion molecules at chelator lipid interfaces imaged by reflection interference contrast microscopy (RICM). Biosensors and Bioelectronics, 1995, 10, 805-812.	10.1	28
165	Kinetics of the ATP Hydrolysis Cycle of the Nucleotide-binding Domain of Mdl1 Studied by a Novel Site-specific Labeling Technique. Journal of Biological Chemistry, 2006, 281, 5694-5701.	3.4	28
166	Engineering ATPase Activity in the Isolated ABC Cassette of Human TAP1. Journal of Biological Chemistry, 2006, 281, 27471-27480.	3.4	28
167	The peptide-loading complex â€“ antigen translocation and MHC class I loading. Biological Chemistry, 2009, 390, 783-794.	2.5	28
168	The transporter associated with antigen processing (TAP) is active in a post-ER compartment. Journal of Cell Science, 2010, 123, 4271-4279.	2.0	28
169	â€˜Tracelessâ€™ tracing of proteins â€“ high-affinity trans-splicing directed by a minimal interaction pair. Chemical Science, 2016, 7, 2646-2652.	7.4	28
170	Structural and Functional Fingerprint of the Mitochondrial ATP-binding Cassette Transporter Mdl1 from Saccharomyces cerevisiae. Journal of Biological Chemistry, 2007, 282, 3951-3961.	3.4	27
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