

Sebastian Springer

List of Publications by Year in descending order

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79
papers

2,879
citations

185998

28
h-index

197535

49
g-index

122
all docs

122
docs citations

122
times ranked

3259
citing authors

#	ARTICLE	IF	CITATIONS
1	A Primer on Vesicle Budding. <i>Cell</i> , 1999, 97, 145-148.	13.5	266
2	Multifunctionalized Polymer Microcapsules: Novel Tools for Biological and Pharmacological Applications. <i>Small</i> , 2007, 3, 944-955.	5.2	223
3	Nucleation of COPII Vesicular Coat Complex by Endoplasmic Reticulum to Golgi Vesicle SNAREs. , 1998, 281, 698-700.		184
4	Structure of the Sec23p/24p and Sec13p/31p complexes of COPII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 10704-10709.	3.3	122
5	Crystal Structures of Two H-2Db/Glycopeptide Complexes Suggest a Molecular Basis for CTL Cross-Reactivity. <i>Immunity</i> , 1999, 10, 63-74.	6.6	121
6	Conformational Flexibility of the MHC Class I $\alpha 1$ - $\alpha 2$ Domain in Peptide Bound and Free States: A Molecular Dynamics Simulation Study. <i>Biophysical Journal</i> , 2004, 87, 2203-2214.	0.2	116
7	Controlled Intracellular Release of Peptides from Microcapsules Enhances Antigen Presentation on MHC Class I Molecules. <i>Small</i> , 2009, 5, 2168-2176.	5.2	111
8	The p24 proteins are not essential for vesicular transport in <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 4034-4039.	3.3	109
9	Calreticulin-dependent recycling in the early secretory pathway mediates optimal peptide loading of MHC class I molecules. <i>EMBO Journal</i> , 2009, 28, 3730-3744.	3.5	78
10	Tapasin and other chaperones: models of the MHC class I loading complex. <i>Biological Chemistry</i> , 2004, 385, 763-78.	1.2	68
11	Fast Association Rates Suggest a Conformational Change in the MHC Class I Molecule H-2Db upon Peptide Binding. <i>Biochemistry</i> , 1998, 37, 3001-3012.	1.2	67
12	Empty peptide-receptive MHC class I molecules for efficient detection of antigen-specific T cells. <i>Science Immunology</i> , 2019, 4, .	5.6	64
13	Tapasin dependence of major histocompatibility complex class I molecules correlates with their conformational flexibility. <i>FASEB Journal</i> , 2011, 25, 3989-3998.	0.2	61
14	Differential tapasin dependence of MHC class I molecules correlates with conformational changes upon peptide dissociation: A molecular dynamics simulation study. <i>Molecular Immunology</i> , 2008, 45, 3714-3722.	1.0	58
15	Peptide-independent stabilization of MHC class I molecules breaches cellular quality control*. <i>Journal of Cell Science</i> , 2014, 127, 2885-97.	1.2	57
16	Comparative molecular dynamics analysis of tapasin-dependent and -independent MHC class I alleles. <i>Protein Science</i> , 2006, 16, 299-308.	3.1	56
17	Dipeptides promote folding and peptide binding of MHC class I molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15383-15388.	3.3	55
18	Flexibility of the MHC class II peptide binding cleft in the bound, partially filled, and empty states: A molecular dynamics simulation study. <i>Biopolymers</i> , 2009, 91, 14-27.	1.2	54

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19	Tapasin edits peptides on MHC class I molecules by accelerating peptide exchange. <i>European Journal of Immunology</i> , 2010, 40, 214-224.	1.6	52
20	F pocket flexibility influences the tapasin dependence of two differentially disease-associated MHC Class I proteins. <i>European Journal of Immunology</i> , 2015, 45, 1248-1257.	1.6	48
21	Peptide-receptive Major Histocompatibility Complex Class I Molecules Cycle between Endoplasmic Reticulum and cis-Golgi in Wild-type Lymphocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 30680-30690.	1.6	47
22	Dipeptides catalyze rapid peptide exchange on MHC class I molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 202-207.	3.3	45
23	Mechanistic Basis for Epitope Proofreading in the Peptide-Loading Complex. <i>Journal of Immunology</i> , 2015, 195, 4503-4513.	0.4	43
24	Peptide binding to MHC class I and II proteins: New avenues from new methods. <i>Molecular Immunology</i> , 2010, 47, 649-657.	1.0	42
25	Structures of peptide-free and partially loaded MHC class I molecules reveal mechanisms of peptide selection. <i>Nature Communications</i> , 2020, 11, 1314.	5.8	40
26	Successive crystal structure snapshots suggest the basis for MHC class I peptide loading and editing by tapasin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5055-5060.	3.3	39
27	A Novel Family of Human Leukocyte Antigen Class II Receptors May Have Its Origin in Archaic Human Species. <i>Journal of Biological Chemistry</i> , 2014, 289, 639-653.	1.6	37
28	The Carboxy Terminus of the Ligand Peptide Determines the Stability of the MHC Class I Molecule H-2Kb: A Combined Molecular Dynamics and Experimental Study. <i>PLoS ONE</i> , 2015, 10, e0135421.	1.1	35
29	High-throughput peptide-MHC complex generation and kinetic screenings of TCRs with peptide-receptive HLA-A*02:01 molecules. <i>Science Immunology</i> , 2019, 4, .	5.6	35
30	Not all empty MHC class I molecules are molten globules: Tryptophan fluorescence reveals a two-step mechanism of thermal denaturation. <i>Molecular Immunology</i> , 2013, 54, 386-396.	1.0	33
31	Protein A Functionalized Polyelectrolyte Microcapsules as a Universal Platform for Enhanced Targeting of Cell Surface Receptors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11506-11517.	4.0	32
32	Transport and quality control of MHC class I molecules in the early secretory pathway. <i>Current Opinion in Immunology</i> , 2015, 34, 83-90.	2.4	29
33	TAP-Dependent and -Independent Peptide Import into Dendritic Cell Phagosomes. <i>Journal of Immunology</i> , 2016, 197, 3454-3463.	0.4	29
34	The transporter associated with antigen processing (TAP) is active in a post-ER compartment. <i>Journal of Cell Science</i> , 2010, 123, 4271-4279.	1.2	28
35	Dissociation of $\beta_2\text{-microglobulin}$ determines the surface quality control of major histocompatibility complex class I molecules. <i>FASEB Journal</i> , 2015, 29, 2780-2788.	0.2	28
36	FoldAffinity: binding affinities from nDSF experiments. <i>Scientific Reports</i> , 2021, 11, 9572.	1.6	28

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37	Proline substitution independently enhances H ² D ^b complex stabilization and TCR recognition of melanoma-associated peptides. <i>European Journal of Immunology</i> , 2013, 43, 3051-3060.	1.6	22
38	The mechanism of action of tapasin in the peptide exchange on MHC class I molecules determined from kinetics simulation studies. <i>Molecular Immunology</i> , 2009, 46, 2054-2063.	1.0	20
39	“To Catch or Not to Catch”: Microcapsule-Based Sandwich Assay for Detection of Proteins and Nucleic Acids. <i>Advanced Functional Materials</i> , 2016, 26, 6015-6024.	7.8	20
40	Regulated Oligomerization Induces Uptake of a Membrane Protein into COPII Vesicles Independent of Its Cytosolic Tail. <i>Traffic</i> , 2014, 15, 531-545.	1.3	19
41	Stoichiometry of HLA Class II-Invariant Chain Oligomers. <i>PLoS ONE</i> , 2011, 6, e17257.	1.1	18
42	Coupling between side chain interactions and binding pocket flexibility in HLA-B*44:02 molecules investigated by molecular dynamics simulations. <i>Molecular Immunology</i> , 2015, 63, 312-319.	1.0	18
43	Specific Capture of Peptide-Receptive Major Histocompatibility Complex Class I Molecules by Antibody Micropatterns Allows for a Novel Peptide-Binding Assay in Live Cells. <i>Small</i> , 2017, 13, 1602974.	5.2	16
44	MHC Class I Stability is Modulated by Cell Surface Sialylation in Human Dendritic Cells. <i>Pharmaceutics</i> , 2020, 12, 249.	2.0	16
45	Investigating MHC class I folding and trafficking with pulse-chase experiments. <i>Molecular Immunology</i> , 2013, 55, 126-130.	1.0	15
46	Cytomegalovirus gp40/m152 Uses TMED10 as ER Anchor to Retain MHC Class I. <i>Cell Reports</i> , 2018, 23, 3068-3077.	2.9	14
47	Significance of nuclear cathepsin V in normal thyroid epithelial and carcinoma cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118846.	1.9	13
48	A two-hybrid antibody micropattern assay reveals specific in cis interactions of MHC I heavy chains at the cell surface. <i>ELife</i> , 2018, 7, .	2.8	12
49	Protein micropatterns printed on glass: Novel tools for protein-ligand binding assays in live cells. <i>Engineering in Life Sciences</i> , 2018, 18, 124-131.	2.0	11
50	Peptide-MHC I complex stability measured by nanoscale differential scanning fluorimetry reveals molecular mechanism of thermal denaturation. <i>Molecular Immunology</i> , 2021, 136, 73-81.	1.0	11
51	Retrieval of a Metabolite from Cells with Polyelectrolyte Microcapsules. <i>Small</i> , 2010, 6, 2412-2419.	5.2	10
52	Distinct mechanisms survey the structural integrity of HLA-B*27:05 intracellularly and at the surface. <i>PLoS ONE</i> , 2018, 13, e0200811.	1.1	10
53	Endoplasmic Reticulum Targeting Alters Regulation of Expression and Antigen Presentation of Proinsulin. <i>Journal of Immunology</i> , 2014, 192, 4957-4966.	0.4	9
54	The murine cytomegalovirus immunoevasin gp40 binds MHC class I molecules to retain them in the early secretory pathway. <i>Journal of Cell Science</i> , 2016, 129, 219-27.	1.2	9

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55	A natural tapasin isoform lacking exon 3 modifies peptide loading complex function. <i>European Journal of Immunology</i> , 2013, 43, 1459-1469.	1.6	8
56	Pulse-Chase Analysis for Studying Protein Synthesis and Maturation. <i>Current Protocols in Protein Science</i> , 2014, 78, 30.3.1-30.3.23.	2.8	8
57	Primary and secondary functions of HLA-E are determined by stability and conformation of the peptide-bound complexes. <i>Cell Reports</i> , 2022, 39, 110959.	2.9	8
58	Venus flytrap or pas de trois? The dynamics of MHC class I molecules. <i>Current Opinion in Immunology</i> , 2021, 70, 82-89.	2.4	7
59	The P5-type ATPase ATP13A1 modulates major histocompatibility complex I-related protein 1 (MR1)-mediated antigen presentation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101542.	1.6	7
60	Opening opportunities for Kd determination and screening of MHC peptide complexes. <i>Communications Biology</i> , 2022, 5, .	2.0	7
61	Dissociation of β_2m from MHC class I triggers formation of noncovalent transient heavy chain dimers. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	6
62	Procathepsin V Is Secreted in a TSH Regulated Manner from Human Thyroid Epithelial Cells and Is Accessible to an Activity-Based Probe. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9140.	1.8	5
63	Trace Amine-Associated Receptor 1 Trafficking to Cilia of Thyroid Epithelial Cells. <i>Cells</i> , 2021, 10, 1518.	1.8	5
64	Release from Endoplasmic Reticulum Matrix Proteins Controls Cell Surface Transport of MHC Class I Molecules. <i>Traffic</i> , 2015, 16, 591-603.	1.3	4
65	The murine cytomegalovirus immunoevasin gp40/152 inhibits NKG2D receptor RAE-1 β by intracellular retention and cell surface masking. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	4
66	Comparative validation of a microcapsule-based immunoassay for the detection of proteins and nucleic acids. <i>PLoS ONE</i> , 2018, 13, e0201009.	1.1	3
67	Homotypic and heterotypic in cis associations of MHC class I molecules at the cell surface. <i>Current Research in Immunology</i> , 2022, 3, 85-99.	1.2	2
68	Intracellular transport: Small 19/2009. <i>Small</i> , 2009, 5, NA-NA.	5.2	0
69	Dual-Focus Fluorescence Correlation Spectroscopy: Measuring Translational and Rotational Diffusion of Biomolecules. <i>Biophysical Journal</i> , 2010, 98, 586a.	0.2	0
70	The tapasin isoform NeTT (new tapasin transcript) encoded by an alternatively spliced transcript lacking exon 3 impairs PLC (peptide loading complex) conferred stabilization of MHC class I molecules. <i>Molecular Immunology</i> , 2012, 51, 16.	1.0	0
71	Tapasin dependence of MHC class I molecules correlates with their conformational flexibility. <i>Molecular Immunology</i> , 2012, 51, 31.	1.0	0
72	Enhanced immunogenicity of MHC class I-restricted tumor-associated altered peptide ligands. <i>Molecular Immunology</i> , 2012, 51, 33-34.	1.0	0

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73	Determining the Activity of the Transporter Associated with Antigen Processing in the Compartments of the Secretory Pathway. <i>Methods in Molecular Biology</i> , 2013, 960, 137-144.	0.4	0
74	The Prominence of the Ligand Peptide Carboxyl Terminus in the MHC Class I Molecules Stability and Affinity. <i>Biophysical Journal</i> , 2014, 106, 662a-663a.	0.2	0
75	Polyelectrolyte Microcapsule Based Assay for Monitoring Biotechnological Processes In Vitro and In Vivo. <i>Biophysical Journal</i> , 2014, 106, 621a.	0.2	0
76	Antikörper-Mikropatterns zur Analyse von Proteininteraktionen in Zellen. <i>BioSpektrum</i> , 2018, 24, 400-403.	0.0	0
77	Abstract B049: Empty MHC class I molecules for improved detection of antigen-specific T-cells. , 2019, , .		0
78	Reply to "Identification of thermodynamic quantities of the stability of peptide-MHC I complex using nanoscale differential scanning fluorimetry" by Jakob Harris and Jonghoon Kang. <i>Molecular Immunology</i> , 2022, 141, 257.	1.0	0
79	Tailored Nanoparticles as Vaccine Components. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11898.	1.3	0