

Aymelt Itzen

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,145
citations

186265

28
h-index

168389

53
g-index

89
all docs

89
docs citations

89
times ranked

3326
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting AMPylation through the lens of Fic enzymes. Trends in Microbiology, 2022, 30, 350-363.	7.7	6
2	Proteolysis of Rab32 by Salmonella GtgE induces an inactive GTPase conformation. IScience, 2021, 24, 101940.	4.1	12
3	Specificity of AMPylation of the human chaperone BiP is mediated by TPR motifs of FICD. Nature Communications, 2021, 12, 2426.	12.8	15
4	Current Advances in Covalent Stabilization of Macromolecular Complexes for Structural Biology. Bioconjugate Chemistry, 2021, 32, 879-890.	3.6	4
5	SopD from Salmonella specifically inactivates Rab8. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140661.	2.3	4
6	Rab1-AMPylation by Legionella DrrA is allosterically activated by Rab1. Nature Communications, 2021, 12, 460.	12.8	14
7	Validation of the Slow Off-Rate Kinetics of Sirtuin-Rearranging Ligands (SirReals) by Means of Label-Free Electrically Switchable Nanolever Technology. ChemBioChem, 2020, 21, 1161-1166.	2.6	6
8	The trimer to monomer transition of Tumor Necrosis Factor-Alpha is a dynamic process that is significantly altered by therapeutic antibodies. Scientific Reports, 2020, 10, 9265.	3.3	25
9	Monoclonal Anti-AMP Antibodies Are Sensitive and Valuable Tools for Detecting Patterns of AMPylation. IScience, 2020, 23, 101800.	4.1	17
10	Divergent Evolution of Legionella RCC1 Repeat Effectors Defines the Range of Ran GTPase Cycle Targets. MBio, 2020, 11, .	4.1	11
11	Identification of targets of AMPylating Fic enzymes by co-substrate-mediated covalent capture. Nature Chemistry, 2020, 12, 732-739.	13.6	21
12	Conformational control of small GTPases by AMPylation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5772-5781.	7.1	16
13	PINK1-dependent phosphorylation of Serine111 within the SF3 motif of Rab GTPases impairs effector interactions and LRRK2-mediated phosphorylation at Threonine72. Biochemical Journal, 2020, 477, 1651-1668.	3.7	26
14	Legionella effector AnkX displaces the switch II region for Rab1b phosphocholination. Science Advances, 2020, 6, eaaz8041.	10.3	12
15	Phosphorylation of Ser111 in Rab8a Modulates Rabin8-Dependent Activation by Perturbation of Side Chain Interaction Networks. Biochemistry, 2019, 58, 3546-3554.	2.5	8
16	Exploring the Substrate Scope of the Bacterial Phosphocholine Transferase AnkX for Versatile Protein Functionalization. ChemBioChem, 2019, 20, 2336-2340.	2.6	7
17	Nucleotide exchange factor Rab3GEP requires DENN and non-DENN elements for activation and targeting of Rab27a. Journal of Cell Science, 2019, 132, .	2.0	6
18	The protease GtgE from Salmonella exclusively targets inactive Rab GTPases. Nature Communications, 2018, 9, 44.	12.8	33

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19	Biochemie 2016: Posttranslationale Proteinmodifikationen bei Krankheiten. Nachrichten Aus Der Chemie, 2017, 65, 320-322.	0.0	0
20	Proximity-mediated covalent stabilization of low-affinity protein complexes in vitro and in vivo. Angewandte Chemie, 2017, 129, 15943-15947.	2.0	14
21	Proximity-triggered Covalent Stabilization of Low-affinity Protein Complexes In Vitro and In Vivo. Angewandte Chemie - International Edition, 2017, 56, 15737-15741.	13.8	56
22	Adenylylation of Tyr77 stabilizes Rab1b GTPase in an active state: A molecular dynamics simulation analysis. Scientific Reports, 2016, 6, 19896.	3.3	13
23	A pull-down procedure for the identification of unknown GEFs for small GTPases. Small GTPases, 2016, 7, 93-106.	1.6	12
24	bMERB domains are bivalent Rab8 family effectors evolved by gene duplication. ELife, 2016, 5, .	6.0	51
25	Phosphoproteomic screening identifies Rab GTPases as novel downstream targets of PINK1. EMBO Journal, 2015, 34, 2840-2861.	7.8	160
26	Covalent Protein Labeling by Enzymatic Phosphocholination. Angewandte Chemie - International Edition, 2015, 54, 10327-10330.	13.8	37
27	Locking GTPases covalently in their functional states. Nature Communications, 2015, 6, 7773.	12.8	21
28	Molecular Perspectives on Protein Adenylylation. ACS Chemical Biology, 2015, 10, 12-21.	3.4	27
29	Exploring Adenylylation and Phosphocholination as Post-translational Modifications. ChemBioChem, 2014, 15, 19-26.	2.6	14
30	The Legionella longbeachae Icm/Dot Substrate SidC Selectively Binds Phosphatidylinositol 4-Phosphate with Nanomolar Affinity and Promotes Pathogen Vacuole-Endoplasmic Reticulum Interactions. Infection and Immunity, 2014, 82, 4021-4033.	2.2	47
31	The structure of the N-terminal domain of the Legionella protein SidC. Journal of Structural Biology, 2014, 186, 188-194.	2.8	17
32	The role of the hypervariable C-terminal domain in Rab GTPases membrane targeting. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2572-2577.	7.1	79
33	Direct Targeting of Rab GTPase-Effector Interactions. Angewandte Chemie - International Edition, 2014, 53, 2498-2503.	13.8	79
34	Î±-Synuclein interacts with the switch region of Rab8a in a Ser129 phosphorylation-dependent manner. Neurobiology of Disease, 2014, 70, 149-161.	4.4	84
35	Reaction Mechanism of Adenylyltransferase DrrA from Legionella pneumophila Elucidated by Time-Resolved Fourier Transform Infrared Spectroscopy. Journal of the American Chemical Society, 2014, 136, 9338-9345.	13.7	10
36	Prenylation of RabGTPases, Their Delivery to Membranes, and Rab Recycling. , 2014, , 3-16.		2

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37	Diversity and plasticity in Rab GTPase nucleotide release mechanism has consequences for Rab activation and inactivation. <i>ELife</i> , 2014, 3, e01623.	6.0	63
38	Protein-DNA Arrays as Tools for Detection of Protein-Protein Interactions by Mass Spectrometry. <i>ChemBioChem</i> , 2013, 14, 92-99.	2.6	11
39	RabGEFs are a major determinant for specific Rab membrane targeting. <i>Journal of Cell Biology</i> , 2013, 200, 287-300.	5.2	166
40	Intermediates in the Guanine Nucleotide Exchange Reaction of Rab8 Protein Catalyzed by Guanine Nucleotide Exchange Factors Rabin8 and GRAB. <i>Journal of Biological Chemistry</i> , 2013, 288, 32466-32474.	3.4	55
41	Activation of Ran GTPase by a Legionella Effector Promotes Microtubule Polymerization, Pathogen Vacuole Motility and Infection. <i>PLoS Pathogens</i> , 2013, 9, e1003598.	4.7	94
42	Modulation of Small GTPases by Legionella. <i>Current Topics in Microbiology and Immunology</i> , 2013, 376, 117-133.	1.1	29
43	Membrane extraction of Rab proteins by GDP dissociation inhibitor characterized using attenuated total reflection infrared spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13380-13385.	7.1	31
44	Mechanism of Rab1b deactivation by the Legionella pneumophila GAP LepB. <i>EMBO Reports</i> , 2013, 14, 199-205.	4.5	60
45	Specific localization of Rabs at intracellular membranes. <i>Biochemical Society Transactions</i> , 2012, 40, 1421-1425.	3.4	5
46	Crystal structure of the Rab binding domain of OCRL1 in complex with Rab8 and functional implications of the OCRL1/Rab8 module for Lowe syndrome. <i>Small GTPases</i> , 2012, 3, 107-110.	1.6	22
47	Posttranslational modifications of Rab proteins cause effective displacement of GDP dissociation inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5621-5626.	7.1	68
48	Characterization of Enzymes from Legionella pneumophila Involved in Reversible Adenylation of Rab1 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 35036-35046.	3.4	28
49	Reversible phosphocholination of Rab proteins by Legionella pneumophila effector proteins. <i>EMBO Journal</i> , 2012, 31, 1774-1784.	7.8	101
50	Catalytic mechanism of a mammalian Rab-RabGAP complex in atomic detail. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21348-21353.	7.1	56
51	Covalent Coercion by Legionella pneumophila. <i>Cell Host and Microbe</i> , 2011, 10, 89-91.	11.0	28
52	GTPases involved in vesicular trafficking: Structures and mechanisms. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 48-56.	5.0	86
53	A structural basis for Lowe syndrome caused by mutations in the Rab-binding domain of OCRL1. <i>EMBO Journal</i> , 2011, 30, 1659-1670.	7.8	80
54	Adenylation: renaissance of a forgotten post-translational modification. <i>Trends in Biochemical Sciences</i> , 2011, 36, 221-228.	7.5	60

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55	Atomic resolution structure of EhpR: phenazine resistance in <i>Enterobacter agglomerans</i> Eh1087 follows principles of bleomycin/mitomycin C resistance in other bacteria. <i>BMC Structural Biology</i> , 2011, 11, 33.	2.3	4
56	One-Pot Dual-Labeling of a Protein by Two Chemoselective Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8287-8290.	13.8	40
57	Efficient Synthesis and Applications of Peptides containing Adenylylated Tyrosine Residues. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9200-9204.	13.8	21
58	Identification and characterisation of novel Mss4-binding Rab GTPases. <i>Biological Chemistry</i> , 2011, 392, 239-48.	2.5	19
59	The versatile <i>Legionella</i> effector protein DrrA. <i>Communicative and Integrative Biology</i> , 2011, 4, 72-74.	1.4	13
60	Rab GTPase-Myo5B complexes control membrane recycling and epithelial polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2789-2794.	7.1	168
61	Protein LidA from <i>Legionella</i> is a Rab GTPase supereffector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17945-17950.	7.1	72
62	The versatile <i>Legionella</i> effector protein DrrA. <i>Communicative and Integrative Biology</i> , 2011, 4, 72-4.	1.4	9
63	High-affinity binding of phosphatidylinositol 4-phosphate by <i>Legionella pneumophila</i> DrrA. <i>EMBO Reports</i> , 2010, 11, 598-604.	4.5	92
64	The <i>Legionella</i> Effector Protein DrrA AMPylates the Membrane Traffic Regulator Rab1b. <i>Science</i> , 2010, 329, 946-949.	12.6	319
65	Chaperone-assisted production of active human Rab8A GTPase in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2009, 65, 190-195.	1.3	27
66	RabGDI Displacement by DrrA from <i>Legionella</i> Is a Consequence of Its Guanine Nucleotide Exchange Activity. <i>Molecular Cell</i> , 2009, 36, 1060-1072.	9.7	160
67	Key Determinants of Rab Specificity. <i>Structure</i> , 2008, 16, 1437-1439.	3.3	10
68	Sec2 is a Highly Efficient Exchange Factor for the Rab Protein Sec4. <i>Journal of Molecular Biology</i> , 2007, 365, 1359-1367.	4.2	52
69	Purification, crystallization and preliminary X-ray crystallographic analysis of mammalian MSS4-Rab8 GTPase protein complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 113-116.	0.7	3
70	Nucleotide exchange via local protein unfolding-structure of Rab8 in complex with MSS4. <i>EMBO Journal</i> , 2006, 25, 1445-1455.	7.8	89