

David Komander

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6267939/publications.pdf>

Version: 2024-02-01

110
papers

23,441
citations

15466

65
h-index

24915

109
g-index

122
all docs

122
docs citations

122
times ranked

21466
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ubiquitin Code. Annual Review of Biochemistry, 2012, 81, 203-229.	5.0	2,844
2	Breaking the chains: structure and function of the deubiquitinases. Nature Reviews Molecular Cell Biology, 2009, 10, 550-563.	16.1	1,722
3	Ubiquitin modifications. Cell Research, 2016, 26, 399-422.	5.7	1,357
4	The nuts and bolts of AGC protein kinases. Nature Reviews Molecular Cell Biology, 2010, 11, 9-22.	16.1	1,137
5	PDK1, the master regulator of AGC kinase signal transduction. Seminars in Cell and Developmental Biology, 2004, 15, 161-170.	2.3	715
6	Mechanisms of Deubiquitinase Specificity and Regulation. Annual Review of Biochemistry, 2017, 86, 159-192.	5.0	698
7	The emerging complexity of protein ubiquitination. Biochemical Society Transactions, 2009, 37, 937-953.	1.6	684
8	Recruitment of the Linear Ubiquitin Chain Assembly Complex Stabilizes the TNF-R1 Signaling Complex and AIs Required for TNF-Mediated Gene Induction. Molecular Cell, 2009, 36, 831-844.	4.5	674
9	Specific Recognition of Linear Ubiquitin Chains by NEMO Is Important for NF- κ B Activation. Cell, 2009, 136, 1098-1109.	13.5	667
10	Atypical ubiquitylation – the unexplored world of polyubiquitin beyond Lys48 and Lys63 linkages. Nature Reviews Molecular Cell Biology, 2012, 13, 508-523.	16.1	558
11	Molecular discrimination of structurally equivalent Lys 63-linked and linear polyubiquitin chains. EMBO Reports, 2009, 10, 466-473.	2.0	513
12	Breaking the chains: deubiquitylating enzyme specificity begets function. Nature Reviews Molecular Cell Biology, 2019, 20, 338-352.	16.1	512
13	OTU Deubiquitinases Reveal Mechanisms of Linkage Specificity and Enable Ubiquitin Chain Restriction Analysis. Cell, 2013, 154, 169-184.	13.5	470
14	OTULIN Antagonizes LUBAC Signaling by Specifically Hydrolyzing Met1-Linked Polyubiquitin. Cell, 2013, 153, 1312-1326.	13.5	395
15	Activation of the canonical IKK complex by K63/M1-linked hybrid ubiquitin chains. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15247-15252.	3.3	373
16	Mechanism of phospho-ubiquitin-induced PARKIN activation. Nature, 2015, 524, 370-374.	13.7	356
17	Molecular basis of USP7 inhibition by selective small-molecule inhibitors. Nature, 2017, 550, 481-486.	13.7	332
18	Mechanism and inhibition of the papain-like protease, PLpro, of SARS-CoV-2. EMBO Journal, 2020, 39, e106275.	3.5	330

#	ARTICLE	IF	CITATIONS
19	Lys11-linked ubiquitin chains adopt compact conformations and are preferentially hydrolyzed by the deubiquitinase Cezanne. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 939-947.	3.6	294
20	On Terminal Alkynes That Can React with Active-Site Cysteine Nucleophiles in Proteases. <i>Journal of the American Chemical Society</i> , 2013, 135, 2867-2870.	6.6	290
21	LC3C, Bound Selectively by a Noncanonical LIR Motif in NDP52, Is Required for Antibacterial Autophagy. <i>Molecular Cell</i> , 2012, 48, 329-342.	4.5	285
22	Structure of the human Parkin ligase domain in an autoinhibited state. <i>EMBO Journal</i> , 2013, 32, 2099-2112.	3.5	271
23	Mechanism of parkin activation by PINK1. <i>Nature</i> , 2018, 559, 410-414.	13.7	271
24	Engineered diubiquitin synthesis reveals Lys29-isopeptide specificity of an OTU deubiquitinase. <i>Nature Chemical Biology</i> , 2010, 6, 750-757.	3.9	269
25	The Deubiquitinase OTULIN Is an Essential Negative Regulator of Inflammation and Autoimmunity. <i>Cell</i> , 2016, 166, 1215-1230.e20.	13.5	259
26	Ubiquitin Ser65 phosphorylation affects ubiquitin structure, chain assembly and hydrolysis. <i>EMBO Journal</i> , 2015, 34, 307-325.	3.5	258
27	The Structure of the CYLD USP Domain Explains Its Specificity for Lys63-Linked Polyubiquitin and Reveals a B Box Module. <i>Molecular Cell</i> , 2008, 29, 451-464.	4.5	251
28	OTULIN Restricts Met1-Linked Ubiquitination to Control Innate Immune Signaling. <i>Molecular Cell</i> , 2013, 50, 818-830.	4.5	209
29	Ubiquitin signalling in neurodegeneration: mechanisms and therapeutic opportunities. <i>Cell Death and Differentiation</i> , 2021, 28, 570-590.	5.0	197
30	LUBAC-synthesized linear ubiquitin chains restrict cytosol-invading bacteria by activating autophagy and NF- κ B. <i>Nature Microbiology</i> , 2017, 2, 17063.	5.9	182
31	Deubiquitinase-based analysis of ubiquitin chain architecture using Ubiquitin Chain Restriction (UbiCRest). <i>Nature Protocols</i> , 2015, 10, 349-361.	5.5	178
32	Two-sided ubiquitin binding explains specificity of the TAB2 NZF domain. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1328-1330.	3.6	177
33	High resolution crystal structure of the human PDK1 catalytic domain defines the regulatory phosphopeptide docking site. <i>EMBO Journal</i> , 2002, 21, 4219-4228.	3.5	176
34	Mechanism and regulation of the Lys6-selective deubiquitinase USP30. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 920-930.	3.6	173
35	Structural insights into the regulation of PDK1 by phosphoinositides and inositol phosphates. <i>EMBO Journal</i> , 2004, 23, 3918-3928.	3.5	167
36	Ubiquitin chain conformation regulates recognition and activity of interacting proteins. <i>Nature</i> , 2012, 492, 266-270.	13.7	166

#	ARTICLE	IF	CITATIONS
37	Structure of the A20 OTU domain and mechanistic insights into deubiquitination. <i>Biochemical Journal</i> , 2008, 409, 77-85.	1.7	165
38	Assembly and Specific Recognition of K29- and K33-Linked Polyubiquitin. <i>Molecular Cell</i> , 2015, 58, 95-109.	4.5	162
39	Molecular Basis and Regulation of OTULIN-LUBAC Interaction. <i>Molecular Cell</i> , 2014, 54, 335-348.	4.5	158
40	Insights into ubiquitin chain architecture using Ub-clipping. <i>Nature</i> , 2019, 572, 533-537.	13.7	155
41	Ubiquitin Linkage-Specific Affimers Reveal Insights into K6-Linked Ubiquitin Signaling. <i>Molecular Cell</i> , 2017, 68, 233-246.e5.	4.5	153
42	Lysine 27 Ubiquitination of the Mitochondrial Transport Protein Miro Is Dependent on Serine 65 of the Parkin Ubiquitin Ligase. <i>Journal of Biological Chemistry</i> , 2014, 289, 14569-14582.	1.6	152
43	Polyubiquitin binding and cross-reactivity in the USP domain deubiquitinase USP21. <i>EMBO Reports</i> , 2011, 12, 350-357.	2.0	147
44	Global Landscape and Dynamics of Parkin and USP30-Dependent Ubiquitylomes in iNeurons during Mitophagic Signaling. <i>Molecular Cell</i> , 2020, 77, 1124-1142.e10.	4.5	143
45	Dissection of USP catalytic domains reveals five common insertion points. <i>Molecular BioSystems</i> , 2009, 5, 1797.	2.9	135
46	Analysis of the human E2 ubiquitin conjugating enzyme protein interaction network. <i>Genome Research</i> , 2009, 19, 1905-1911.	2.4	134
47	Assembly, analysis and architecture of atypical ubiquitin chains. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 555-565.	3.6	131
48	Analysis of the LKB1-STRAD-MO25 complex. <i>Journal of Cell Science</i> , 2004, 117, 6365-6375.	1.2	130
49	SPATA2 Links CYLD to LUBAC, Activates CYLD, and Controls LUBAC Signaling. <i>Molecular Cell</i> , 2016, 63, 990-1005.	4.5	130
50	Molecular basis of Lys11-polyubiquitin specificity in the deubiquitinase Cezanne. <i>Nature</i> , 2016, 538, 402-405.	13.7	129
51	CYLD Limits Lys63- and Met1-Linked Ubiquitin at Receptor Complexes to Regulate Innate Immune Signaling. <i>Cell Reports</i> , 2016, 14, 2846-2858.	2.9	128
52	Molecular basis for ubiquitin and ISG15 cross-reactivity in viral ovarian tumor domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2228-2233.	3.3	124
53	An ankyrin-repeat ubiquitin-binding domain determines TRABID's specificity for atypical ubiquitin chains. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 62-71.	3.6	122
54	A cascading activity-based probe sequentially targets E1-E2-E3 ubiquitin enzymes. <i>Nature Chemical Biology</i> , 2016, 12, 523-530.	3.9	122

#	ARTICLE	IF	CITATIONS
55	The Molecular Basis for Ubiquitin and Ubiquitin-like Specificities in Bacterial Effector Proteases. <i>Molecular Cell</i> , 2016, 63, 261-276.	4.5	119
56	Recognition of Polyubiquitin Isoforms by the Multiple Ubiquitin Binding Modules of Isopeptidase T. <i>Journal of Biological Chemistry</i> , 2008, 283, 19581-19592.	1.6	116
57	Mutation of the PDK1 PH Domain Inhibits Protein Kinase B/Akt, Leading to Small Size and Insulin Resistance. <i>Molecular and Cellular Biology</i> , 2008, 28, 3258-3272.	1.1	115
58	Structure of PINK1 in complex with its substrate ubiquitin. <i>Nature</i> , 2017, 552, 51-56.	13.7	114
59	Recruitment of TBK1 to cytosol-invading <i>Salmonella</i> induces WIPI2-dependent antibacterial autophagy. <i>EMBO Journal</i> , 2016, 35, 1779-1792.	3.5	107
60	Ubiquitin-Mediated Regulation of RIPK1 Kinase Activity Independent of IKK and MK2. <i>Molecular Cell</i> , 2018, 69, 566-580.e5.	4.5	102
61	Non-hydrolyzable Diubiquitin Probes Reveal Linkage-Specific Reactivity of Deubiquitylating Enzymes Mediated by S2 Pockets. <i>Cell Chemical Biology</i> , 2016, 23, 472-482.	2.5	90
62	An α -Helical Extension of the ELMO1 Pleckstrin Homology Domain Mediates Direct Interaction to DOCK180 and Is Critical in Rac Signaling. <i>Molecular Biology of the Cell</i> , 2008, 19, 4837-4851.	0.9	85
63	OTULIN deficiency in ORAS causes cell type-specific LUBAC degradation, dysregulated TNF signalling and cell death. <i>EMBO Molecular Medicine</i> , 2019, 11, .	3.3	80
64	Interactions of LY333531 and Other Bisindolyl Maleimide Inhibitors with PDK1. <i>Structure</i> , 2004, 12, 215-226.	1.6	79
65	Cezanne (OTUD7B) regulates HIF1 α homeostasis in a proteasome-independent manner. <i>EMBO Reports</i> , 2014, 15, 1268-1277.	2.0	78
66	USP30 sets a trigger threshold for PINK1-PARKIN amplification of mitochondrial ubiquitylation. <i>Life Science Alliance</i> , 2020, 3, e202000768.	1.3	72
67	Irreversible inactivation of ISG15 by a viral leader protease enables alternative infection detection strategies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2371-2376.	3.3	68
68	BIMEL, an intrinsically disordered protein, is degraded by 20S proteasomes in the absence of poly-ubiquitylation. <i>Journal of Cell Science</i> , 2011, 124, 969-977.	1.2	65
69	Emerging roles for Lys11-linked polyubiquitin in cellular regulation. <i>Trends in Biochemical Sciences</i> , 2011, 36, 355-63.	3.7	64
70	Activation mechanism of PINK1. <i>Nature</i> , 2022, 602, 328-335.	13.7	59
71	Mechanism of multi-site phosphorylation from a ROCK-I:RhoE complex structure. <i>EMBO Journal</i> , 2008, 27, 3175-3185.	3.5	57
72	A Chlamydia effector combining deubiquitination and acetylation activities induces Golgi fragmentation. <i>Nature Microbiology</i> , 2018, 3, 1377-1384.	5.9	55

#	ARTICLE	IF	CITATIONS
73	Cezanne regulates E2F1-dependent HIF2 β expression. <i>Journal of Cell Science</i> , 2015, 128, 3082-93.	1.2	54
74	An invisible ubiquitin conformation is required for efficient phosphorylation by <i>PINK1</i> . <i>EMBO Journal</i> , 2017, 36, 3555-3572.	3.5	50
75	Distinct USP25 and USP28 Oligomerization States Regulate Deubiquitinating Activity. <i>Molecular Cell</i> , 2019, 74, 436-451.e7.	4.5	48
76	Development of Diubiquitin-Based FRET Probes To Quantify Ubiquitin Linkage Specificity of Deubiquitinating Enzymes. <i>ChemBioChem</i> , 2016, 17, 816-820.	1.3	46
77	Identification and characterization of diverse OTU deubiquitinases in bacteria. <i>EMBO Journal</i> , 2020, 39, e105127.	3.5	46
78	Gsk3 β and Tomm20 are substrates of the SCFF β 7/PARK15 ubiquitin ligase associated with Parkinson's disease. <i>Biochemical Journal</i> , 2016, 473, 3563-3580.	1.7	45
79	OTULIN protects the liver against cell death, inflammation, fibrosis, and cancer. <i>Cell Death and Differentiation</i> , 2020, 27, 1457-1474.	5.0	45
80	Active site alanine mutations convert deubiquitinases into high-affinity ubiquitin-binding proteins. <i>EMBO Reports</i> , 2018, 19, .	2.0	43
81	Mind Bomb Regulates Cell Death during TNF Signaling by Suppressing RIPK1's Cytotoxic Potential. <i>Cell Reports</i> , 2018, 23, 470-484.	2.9	42
82	A Linear Diubiquitin-Based Probe for Efficient and Selective Detection of the Deubiquitinating Enzyme OTULIN. <i>Cell Chemical Biology</i> , 2017, 24, 1299-1313.e7.	2.5	41
83	Oligomerization-driven MLKL ubiquitylation antagonizes necroptosis. <i>EMBO Journal</i> , 2021, 40, e103718.	3.5	39
84	Inhibitors of SARS-CoV-2 PLpro. <i>Frontiers in Chemistry</i> , 2022, 10, 876212.	1.8	38
85	Role of T-loop Phosphorylation in PDK1 Activation, Stability, and Substrate Binding. <i>Journal of Biological Chemistry</i> , 2005, 280, 18797-18802.	1.6	36
86	The Salmonella Effector SpvD Is a Cysteine Hydrolase with a Serovar-specific Polymorphism Influencing Catalytic Activity, Suppression of Immune Responses, and Bacterial Virulence. <i>Journal of Biological Chemistry</i> , 2016, 291, 25853-25863.	1.6	35
87	Regulation of the endosomal SNX27-retromer by OTULIN. <i>Nature Communications</i> , 2019, 10, 4320.	5.8	34
88	Enzymatic Assembly of Ubiquitin Chains. <i>Methods in Molecular Biology</i> , 2018, 1844, 73-84.	0.4	29
89	Regulation of Met1-linked polyubiquitin signalling by the deubiquitinase <i>OTULIN</i> . <i>FEBS Journal</i> , 2016, 283, 39-53.	2.2	27
90	Dissecting distinct proteolytic activities of FMDV Lpro implicates cleavage and degradation of RLR signaling proteins, not its deISGylase/DUB activity, in type I interferon suppression. <i>PLoS Pathogens</i> , 2020, 16, e1008702.	2.1	26

#	ARTICLE	IF	CITATIONS
91	An essential role for the ATG8 ortholog LC3C in antibacterial autophagy. <i>Autophagy</i> , 2013, 9, 784-786.	4.3	25
92	USP28 deletion and small-molecule inhibition destabilizes c-MYC and elicits regression of squamous cell lung carcinoma. <i>ELife</i> , 2021, 10, .	2.8	25
93	Synthesis of Poly-Ubiquitin Chains Using a Bifunctional Ubiquitin Monomer. <i>Organic Letters</i> , 2017, 19, 6490-6493.	2.4	21
94	Novel Inositol Phospholipid Headgroup Surrogate Crystallized in the Pleckstrin Homology Domain of Protein Kinase B \pm . <i>ACS Chemical Biology</i> , 2007, 2, 242-246.	1.6	20
95	The deubiquitylase USP9X controls ribosomal stalling. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	20
96	Regulation of CYLD activity and specificity by phosphorylation and ubiquitin-binding CAP-Gly domains. <i>Cell Reports</i> , 2021, 37, 109777.	2.9	20
97	Evaluating enzyme activities and structures of DUBs. <i>Methods in Enzymology</i> , 2019, 618, 321-341.	0.4	19
98	The E3 ubiquitin ligase SCF(Fbxo7) mediates proteasomal degradation of UXT isoform 2 (UXT-V2) to inhibit the NF- κ B signaling pathway. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129754.	1.1	11
99	Insights Into Drug Repurposing, as Well as Specificity and Compound Properties of Piperidine-Based SARS-CoV-2 PLpro Inhibitors. <i>Frontiers in Chemistry</i> , 2022, 10, 861209.	1.8	11
100	Dual role of a GTPase conformational switch for membrane fusion by mitofusin ubiquitylation. <i>Life Science Alliance</i> , 2020, 3, e201900476.	1.3	10
101	The JAMM in the proteasome. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 346-348.	3.6	9
102	CYLD Tidies Up Dishevelled Signaling. <i>Molecular Cell</i> , 2010, 37, 589-590.	4.5	8
103	LUBAC. <i>Current Biology</i> , 2022, 32, R506-R508.	1.8	7
104	Strange New World: Bacteria Catalyze Ubiquitylation via ADP Ribosylation. <i>Cell Host and Microbe</i> , 2017, 21, 127-129.	5.1	6
105	Details of destruction, one molecule at a time. <i>Science</i> , 2015, 348, 183-184.	6.0	5
106	Purification, crystallization and preliminary X-ray diffraction of a proteolytic fragment of PDK1 containing the pleckstrin homology domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 314-316.	2.5	4
107	A further case of Dop ϵ ing in bacterial pupylation. <i>EMBO Reports</i> , 2010, 11, 722-723.	2.0	3
108	New Tools for Ubiquitin Signaling. <i>Journal of Molecular Biology</i> , 2012, 418, 129-130.	2.0	0

#	ARTICLE	IF	CITATIONS
109	Linear ubiquitin chains break blood vessel branches. <i>Cell Research</i> , 2021, 31, 1045-1046.	5.7	0
110	Unravelling the specificity in the ubiquitin system. <i>FASEB Journal</i> , 2013, 27, 553.26.	0.2	0