Daniel A Bachovchin

List of Publications by Year
in descending order

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43	5,314	147801	243625
papers	citations	31 h-index	44 g-index

54	54	54	6405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative reactivity profiling predicts functional cysteines in proteomes. Nature, 2010, 468, 790-795.	27.8	1,359
2	Pyroptosis and Apoptosis Pathways Engage in Bidirectional Crosstalk in Monocytes and Macrophages. Cell Chemical Biology, 2017, 24, 507-514.e4.	5.2	424
3	DPP8/DPP9 inhibitor-induced pyroptosis for treatment of acute myeloid leukemia. Nature Medicine, 2018, 24, 1151-1156.	30.7	258
4	The pharmacological landscape and therapeutic potential of serine hydrolases. Nature Reviews Drug Discovery, 2012, 11, 52-68.	46.4	241
5	Superfamily-wide portrait of serine hydrolase inhibition achieved by library-versus-library screening. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20941-20946.	7.1	221
6	N-terminal degradation activates the NLRP1B inflammasome. Science, 2019, 364, 82-85.	12.6	221
7	Click-generated triazole ureas as ultrapotent in vivoâ€“active serine hydrolase inhibitors. Nature Chemical Biology, 2011, 7, 469-478.	8.0	209
8	DPP8 and DPP9 inhibition induces pro-caspase-1-dependent monocyte and macrophage pyroptosis. Nature Chemical Biology, 2017, 13, 46-53.	8.0	208
9	Identification of selective inhibitors of uncharacterized enzymes by high-throughput screening with fluorescent activity-based probes. Nature Biotechnology, 2009, 27, 387-394.	17.5	203
10	Inhibition of Dpp8/9 Activates the Nlrp1b Inflammasome. Cell Chemical Biology, 2018, 25, 262-267.e5.	5.2	154
11	LACTB is a tumour suppressor that modulates lipid metabolism and cell state. Nature, 2017, 543, 681-686.	27.8	131
12	Confirming Target Engagement for Reversible Inhibitors in Vivo by Kinetically Tuned Activity-Based Probes. Journal of the American Chemical Society, 2012, 134, 10345-10348.	13.7	116
13	DPP9 sequesters the CÂterminus of NLRP1 to repress inflammasome activation. Nature, 2021, 592, 778-783.	27.8	114
14	The NLRP1 and CARD8 inflammasomes. Immunological Reviews, 2020, 297, 13-25.	6.0	102
15	Hydrocarbon Oxidation vs Câ€“C Bond-Forming Approaches for Efficient Syntheses of Oxygenated Molecules. Organic Letters, 2005, 7, 223-226.	4.6	100
16	Academic cross-fertilization by public screening yields a remarkable class of protein phosphatase methylesterase-1 inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6811-6816.	7.1	93
17	Caspase-1 interdomain linker cleavage is required for pyroptosis. Life Science Alliance, 2020, 3, e202000664.	2.8	82
18	Potent and Selective Inhibitors of Glutathione S-Transferase Omega 1 That Impair Cancer Drug Resistance. Journal of the American Chemical Society, 2011, 133, 16605-16616.	13.7	78

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19	DPP8/9 inhibitors are universal activators of functional NLRP1 alleles. Cell Death and Disease, 2019, 10, 587.	6.3	69
20	DPP8/9 inhibitors activate the CARD8 inflammasome in resting lymphocytes. Cell Death and Disease, 2020, 11, 628.	6.3	67
21	A high-throughput, multiplexed assay for superfamily-wide profiling of enzyme activity. Nature Chemical Biology, 2014, 10, 656-663.	8.0	66
22	Discovery and Optimization of Sulfonyl Acrylonitriles as Selective, Covalent Inhibitors of Protein Phosphatase Methylesterase-1. Journal of Medicinal Chemistry, 2011, 54, 5229-5236.	6.4	61
23	A Chemical Strategy for Protease Substrate Profiling. Cell Chemical Biology, 2019, 26, 901-907.e6.	5.2	57
24	6-Substituted Hexamethylene Amiloride (HMA) Derivatives as Potent and Selective Inhibitors of the Human Urokinase Plasminogen Activator for Use in Cancer. Journal of Medicinal Chemistry, 2018, 61, 8299-8320.	6.4	56
25	Novel Inhibitors for PRMT1 Discovered by High-Throughput Screening Using Activity-Based Fluorescence Polarization. ACS Chemical Biology, 2012, 7, 1198-1204.	3.4	55
26	Chemoproteomic profiling of host and pathogen enzymes active in cholera. Nature Chemical Biology, 2016, 12, 268-274.	8.0	53
27	DPP9â€™s Enzymatic Activity and Not Its Binding to CARD8 Inhibits Inflammasome Activation. ACS Chemical Biology, 2019, 14, 2424-2429.	3.4	50
28	Competitive Activity-Based Protein Profiling Identifies Aza-Î²-Lactams as a Versatile Chemotype for Serine Hydrolase Inhibition. Journal of the American Chemical Society, 2012, 134, 5068-5071.	13.7	49
29	Mechanism of filament formation in UPA-promoted CARD8 and NLRP1 inflammasomes. Nature Communications, 2021, 12, 189.	12.8	48
30	Dipeptidyl peptidase 9 sets a threshold for CARD8 inflammasome formation by sequestering its active C-terminal fragment. Immunity, 2021, 54, 1392-1404.e10.	14.3	47
31	General and Modular Strategy for Designing Potent, Selective, and Pharmacologically Compliant Inhibitors of Rhomboid Proteases. Cell Chemical Biology, 2017, 24, 1523-1536.e4.	5.2	35
32	Target-Based Screen Against a Periplasmic Serine Protease That Regulates Intrabacterial pH Homeostasis in Mycobacterium tuberculosis. ACS Chemical Biology, 2015, 10, 364-371.	3.4	33
33	Activation of the CARD8 Inflammasome Requires a Disordered Region. Cell Reports, 2020, 33, 108264.	6.4	32
34	Â-Lytic protease can exist in two separately stable conformations with different His57 mobilities and catalytic activities. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1006-1011.	7.1	29
35	Oxime esters as selective, covalent inhibitors of the serine hydrolase retinoblastoma-binding protein 9 (RBBP9). Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2254-2258.	2.2	24
36	A Substrate-Free Activity-Based Protein Profiling Screen for the Discovery of Selective PREPL Inhibitors. Journal of the American Chemical Society, 2011, 133, 11665-11674.	13.7	22

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37	6-Substituted amiloride derivatives as inhibitors of the urokinase-type plasminogen activator for use in metastatic disease. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 126753.	2.2	21
38	NLRP1: a jack of all trades, or a master of one?. Molecular Cell, 2021, 81, 423-425.	9.7	20
39	M24B aminopeptidase inhibitors selectively activate the CARD8 inflammasome. Nature Chemical Biology, 2022, 18, 565-574.	8.0	18
40	Rapid Development of a Potent Photoâ€triggered Inhibitor of the Serine Hydrolase RBBP9. ChemBioChem, 2012, 13, 2082-2093.	2.6	16
41	The NLRP1 Inflammasome Induces Pyroptosis in Human Corneal Epithelial Cells. , 2022, 63, 2.		15
42	Discovery and Biological Evaluation of Potent and Selective N-Methylene Saccharin-Derived Inhibitors for Rhomboid Intramembrane Proteases. Biochemistry, 2017, 56, 6713-6725.	2.5	10
43	A ubiquitin-independent proteasome pathway controls activation of the CARD8 inflammasome. Journal of Biological Chemistry, 2022, 298, 102032.	3.4	8