Dennis W Wolan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2336930/publications.pdf

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70 4,125 29 61 g-index

86 86 86 86 6129

times ranked

citing authors

docs citations

all docs

#	Article	IF	CITATIONS
1	METLIN: A Technology Platform for Identifying Knowns and Unknowns. Analytical Chemistry, 2018, 90, 3156-3164.	6.5	696
2	Proteome-wide covalent ligand discovery in native biological systems. Nature, 2016, 534, 570-574.	27.8	651
3	Antitumor activity of a systemic STING-activating non-nucleotide cGAMP mimetic. Science, 2020, 369, 993-999.	12.6	259
4	Domain Swapping in Inducible Nitric-oxide Synthase. Journal of Biological Chemistry, 1998, 273, 18950-18958.	3.4	171
5	Small-Molecule Activators of a Proenzyme. Science, 2009, 326, 853-858.	12.6	147
6	Acetoneâ€Linked Peptides: A Convergent Approach for Peptide Macrocyclization and Labeling. Angewandte Chemie - International Edition, 2015, 54, 8665-8668.	13.8	143
7	Turning a protein kinase on or off from a single allosteric site via disulfide trapping. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6056-6061.	7.1	134
8	SuFEx-enabled, agnostic discovery of covalent inhibitors of human neutrophil elastase. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18808-18814.	7.1	134
9	Sulfur(VI) Fluoride Exchange (SuFEx)-Enabled High-Throughput Medicinal Chemistry. Journal of the American Chemical Society, 2020, 142, 10899-10904.	13.7	105
10	Crystal structure of the murine NK cell–activating receptor NKG2D at 1.95 à Nature Immunology, 2001, 2, 248-254.	14.5	85
11	Diversity Oriented Clicking (DOC): Divergent Synthesis of SuFExable Pharmacophores from 2â€Substitutedâ€Alkynylâ€1â€Sulfonyl Fluoride (SASF) Hubs. Angewandte Chemie - International Edition, 2020, 59, 12460-12469.	13.8	83
12	Antifungal Imidazoles Block Assembly of Inducible NO Synthase into an Active Dimer. Journal of Biological Chemistry, 1999, 274, 930-938.	3.4	81
13	Self-Assembling Small Molecules Form Nanofibrils That Bind Procaspase-3 To Promote Activation. Journal of the American Chemical Society, 2011, 133, 19630-19633.	13.7	74
14	Inducible nitric oxide synthase: role of the N-terminal β-hairpin hook and pterin-binding segment in dimerization and tetrahydrobiopterin interaction. EMBO Journal, 1999, 18, 6260-6270.	7.8	68
15	Quantitative Metaproteomics and Activity-Based Probe Enrichment Reveals Significant Alterations in Protein Expression from a Mouse Model of Inflammatory Bowel Disease. Journal of Proteome Research, 2017, 16, 1014-1026.	3.7	65
16	Virtual Screening of Human 5-Aminoimidazole-4-carboxamide Ribonucleotide Transformylase against the NCI Diversity Set by Use of AutoDock to Identify Novel Nonfolate Inhibitorsâ€. Journal of Medicinal Chemistry, 2004, 47, 6681-6690.	6.4	63
17	Genetic basis for the cooperative bioactivation of plant lignans by Eggerthella lenta and other human gut bacteria. Nature Microbiology, 2020, 5, 56-66.	13.3	63
18	Mutational Analysis of the Tetrahydrobiopterin-binding Site in Inducible Nitric-oxide Synthase. Journal of Biological Chemistry, 1999, 274, 24100-24112.	3.4	61

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19	Structure-based optimization and synthesis of antiviral drug Arbidol analogues with significantly improved affinity to influenza hemagglutinin. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3744-3748.	2.2	48
20	Selective Detection of Caspase-3 versus Caspase-7 Using Activity-Based Probes with Key Unnatural Amino Acids. ACS Chemical Biology, 2013, 8, 1558-1566.	3.4	47
21	Expanding the Use of Spectral Libraries in Proteomics. Journal of Proteome Research, 2018, 17, 4051-4060.	3.7	47
22	Chemical Inhibition of ENL/AF9 YEATS Domains in Acute Leukemia. ACS Central Science, 2021, 7, 815-830.	11.3	46
23	Fibrils Colocalize Caspase-3 with Procaspase-3 to Foster Maturation. Journal of Biological Chemistry, 2012, 287, 33781-33795.	3.4	45
24	A comprehensive and scalable database search system for metaproteomics. BMC Genomics, 2016, 17, 642.	2.8	45
25	Selective Detection and Inhibition of Active Caspase-3 in Cells with Optimized Peptides. Journal of the American Chemical Society, 2013, 135, 12869-12876.	13.7	44
26	Crystal Structures of Human Bifunctional Enzyme Aminoimidazole-4-carboxamide Ribonucleotide Transformylase/IMP Cyclohydrolase in Complex with Potent Sulfonyl-containing Antifolates. Journal of Biological Chemistry, 2004, 279, 18034-18045.	3.4	42
27	Structural Insights into the Avian AICAR Transformylase Mechanismâ€. Biochemistry, 2002, 41, 15505-15513.	2.5	40
28	Lipoprotein Signal Peptidase Inhibitors with Antibiotic Properties Identified through Design of a Robust InÂVitro HT Platform. Cell Chemical Biology, 2018, 25, 301-308.e12.	5.2	33
29	Discovery of small-molecule enzyme activators by activity-based protein profiling. Nature Chemical Biology, 2020, 16, 997-1005.	8.0	31
30	Structural Insights into the Human and Avian IMP Cyclohydrolase Mechanism via Crystal Structures with the Bound XMP Inhibitorâ€,‡. Biochemistry, 2004, 43, 1171-1183.	2.5	30
31	Discovery of a Highly Selective Caspase-3 Substrate for Imaging Live Cells. ACS Chemical Biology, 2014, 9, 2199-2203.	3.4	28
32	Substrate Profiling and High Resolution Co-complex Crystal Structure of a Secreted C11 Protease Conserved across Commensal Bacteria. ACS Chemical Biology, 2017, 12, 1556-1565.	3.4	27
33	Selective Neutral pH Inhibitor of Cathepsin B Designed Based on Cleavage Preferences at Cytosolic and Lysosomal pH Conditions. ACS Chemical Biology, 2021, 16, 1628-1643.	3.4	27
34	Diversity Oriented Clicking (DOC): Divergent Synthesis of SuFExable Pharmacophores from 2â€Substitutedâ€Alkynylâ€1â€Sulfonyl Fluoride (SASF) Hubs. Angewandte Chemie, 2020, 132, 12560-12569.	2.0	26
35	An influenza A hemagglutinin small-molecule fusion inhibitor identified by a new high-throughput fluorescence polarization screen. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18431-18438.	7.1	25
36	Nitrosopurines En Route to Potently Cytotoxic Asmarines. Angewandte Chemie - International Edition, 2015, 54, 2410-2415.	13.8	23

#	Article	IF	CITATIONS
37	Data Streaming for Metabolomics: Accelerating Data Processing and Analysis from Days to Minutes. Analytical Chemistry, 2017, 89, 1254-1259.	6.5	23
38	Structure of Avian AICAR Transformylase with a Multisubstrate Adduct Inhibitor \hat{I}^2 -DADF Identifies the Folate Binding Site,. Biochemistry, 2003, 42, 10904-10914.	2.5	22
39	Molecules that modulate Apafâ€1 activity. Medicinal Research Reviews, 2011, 31, 649-675.	10.5	21
40	Synthesis and Sulfur Electrophilicity of the <i>Nuphar</i> Thiaspirane Pharmacophore. ACS Central Science, 2016, 2, 401-408.	11.3	20
41	Metabolomics activity screening of T cell–induced colitis reveals anti-inflammatory metabolites. Science Signaling, 2021, 14, eabf6584.	3.6	19
42	Selective and Rapid Cell-Permeable Inhibitor of Human Caspase-3. ACS Chemical Biology, 2019, 14, 2463-2470.	3.4	18
43	ComPIL 2.0: An Updated Comprehensive Metaproteomics Database. Journal of Proteome Research, 2019, 18, 616-622.	3.7	18
44	Smallâ€Molecule Procaspase Activators Identified Using Fluorescence Polarization. ChemBioChem, 2013, 14, 1419-1422.	2.6	17
45	Quantitative Metaproteomics and Activity-based Protein Profiling of Patient Fecal Microbiome Identifies Host and Microbial Serine-type Endopeptidase Activity Associated With Ulcerative Colitis. Molecular and Cellular Proteomics, 2022, 21, 100197.	3.8	17
46	Selective Inhibition of Initiator versus Executioner Caspases Using Small Peptides Containing Unnatural Amino Acids. ACS Chemical Biology, 2014, 9, 2194-2198.	3.4	16
47	N-Terminomics/TAILS Profiling of Proteases and Their Substrates in Ulcerative Colitis. ACS Chemical Biology, 2019, 14, 2471-2483.	3.4	16
48	Identification of an N-acetylneuraminic acid-presenting bacteria isolated from a human microbiome. Scientific Reports, 2021, 11, 4763.	3.3	16
49	Metaproteomics Analysis of SARS-CoV-2-Infected Patient Samples Reveals Presence of Potential Coinfecting Microorganisms. Journal of Proteome Research, 2021, 20, 1451-1454.	3.7	15
50	A Commensal Dipeptidyl Aminopeptidase with Specificity for N-Terminal Glycine Degrades Human-Produced Antimicrobial Peptides <i>in Vitro</i> . ACS Chemical Biology, 2018, 13, 2513-2521.	3.4	14
51	Ultrahigh and High Resolution Structures and Mutational Analysis of Monomeric Streptococcus pyogenes SpeB Reveal a Functional Role for the Glycine-rich C-terminal Loop. Journal of Biological Chemistry, 2012, 287, 24412-24426.	3.4	13
52	Synthetic Elaboration of Native DNA by RASS (SENDR). ACS Central Science, 2020, 6, 1789-1799.	11.3	12
53	Metaproteomics of Colonic Microbiota Unveils Discrete Protein Functions among Colitic Mice and Control Groups. Proteomics, 2018, 18, 1700391.	2.2	10
54	The Development of the Bengamides as New Antibiotics against Drug-Resistant Bacteria. Marine Drugs, 2022, 20, 373.	4.6	10

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55	A glycal-based photoaffinity probe that enriches sialic acid binding proteins. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2609-2612.	2.2	9
56	Mitochondrial Permeability Transition Causes Mitochondrial Reactive Oxygen Species- and Caspase 3-Dependent Atrophy of Single Adult Mouse Skeletal Muscle Fibers. Cells, 2021, 10, 2586.	4.1	9
57	Probing substrate recognition of bacterial lipoprotein signal peptidase using <scp>FRET</scp> reporters. FEBS Letters, 2018, 592, 2289-2296.	2.8	8
58	Sialic acid diversity in the human gut: Molecular impacts and tools for future discovery. Current Opinion in Structural Biology, 2022, 75, 102397.	5.7	8
59	Identification and Co-complex Structure of a New <i>S. pyogenes</i> SpeB Small Molecule Inhibitor. Biochemistry, 2015, 54, 4365-4373.	2.5	7
60	Nanobody-based binding assay for the discovery of potent inhibitors of CFTR inhibitory factor (Cif). Analytica Chimica Acta, 2019, 1057, 106-113.	5.4	7
61	An Irreversible Inhibitor to Probe the Role of <i>Streptococcus pyogenes</i> Cysteine Protease SpeB in Evasion of Host Complement Defenses. ACS Chemical Biology, 2020, 15, 2060-2069.	3.4	7
62	X-ray structure of an inactive zymogen clostripain-like protease from <i>Parabacteroides distasonis </i> . Acta Crystallographica Section D: Structural Biology, 2019, 75, 325-332.	2.3	6
63	Triflic Acid Treatment Enables LC-MS/MS Analysis of Insoluble Bacterial Biomass. Journal of Proteome Research, 2018, 17, 2978-2986.	3.7	5
64	Integrative X-ray Structure and Molecular Modeling for the Rationalization of Procaspase-8 Inhibitor Potency and Selectivity. ACS Chemical Biology, 2020, 15, 575-586.	3.4	5
65	X-ray Structures of Two <i>Bacteroides thetaiotaomicron</i> C11 Proteases in Complex with Peptide-Based Inhibitors. Biochemistry, 2019, 58, 1728-1737.	2.5	4
66	A photoaffinity probe that targets folate-binding proteins. Bioorganic and Medicinal Chemistry Letters, 2021, 40, 127903.	2.2	3
67	CHEMICAL BIOLOGICAL PROTEOMICS OF BACTERIAL PROTEIN FUNCTIONALITIES IN THE HUMAN DISTAL GUT MICROBIOME., 2014,,.		0
68	Front Cover: Metaproteomics of Colonic Microbiota Unveils Discrete Protein Functions among Colitic Mice and Control Groups. Proteomics, 2018, 18, 1870031.	2,2	0
69	Announcement of 2019 Keystone Symposia Conference: "Microbiome: Chemical Mechanisms and Biological Consequences― MSystems, 2018, 3, .	3.8	0
70	Small Molecule Activation of Apoptotic Caspases. FASEB Journal, 2010, 24, 914.5.	0.5	0