

Franz-Josef Meyer-Almes

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,830
citations

304368

22
h-index

182168

51
g-index

76
all docs

76
docs citations

76
times ranked

3050
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-color fluorescence cross-correlation spectroscopy for multicomponent diffusional analysis in solution. <i>Biophysical Journal</i> , 1997, 72, 1878-1886.	0.2	806
2	Mechanism of intercalation into the DNA double helix by ethidium. <i>Biochemistry</i> , 1993, 32, 4246-4253.	1.2	291
3	Fluorescence correlation spectroscopy: lead discovery by miniaturized HTS. <i>Drug Discovery Today</i> , 1998, 3, 457-465.	3.2	244
4	Fluorescence cross-correlation: A new concept for polymerase chain reaction. <i>Journal of Biotechnology</i> , 1998, 63, 97-109.	1.9	130
5	Thailandepsins: Bacterial Products with Potent Histone Deacetylase Inhibitory Activities and Broad-Spectrum Antiproliferative Activities. <i>Journal of Natural Products</i> , 2011, 74, 2031-2038.	1.5	105
6	Defining the Mechanism of Action and Enzymatic Selectivity of Psammaplin A against Its Epigenetic Targets. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1731-1750.	2.9	89
7	Toward Photopharmacological Antimicrobial Chemotherapy Using Photoswitchable Amidohydrolase Inhibitors. <i>ACS Infectious Diseases</i> , 2017, 3, 152-161.	1.8	74
8	Repurposing approved drugs as potential inhibitors of 3CL-protease of SARS-CoV-2: Virtual screening and structure based drug design. <i>Computational Biology and Chemistry</i> , 2020, 88, 107351.	1.1	57
9	The Proapoptotic Influenza A Virus Protein PB1-F2 Forms a Nonselective Ion Channel. <i>PLoS ONE</i> , 2010, 5, e11112.	1.1	55
10	Class IIa HDACs repressive activities on MEF2-dependent transcription are associated with poor prognosis of ER ⁺ breast tumors. <i>FASEB Journal</i> , 2013, 27, 942-954.	0.2	41
11	The enzyme activity of histone deacetylase 8 is modulated by a redox-switch. <i>Redox Biology</i> , 2019, 20, 60-67.	3.9	37
12	Enzyme Inhibition Assays Using Fluorescence Correlation Spectroscopy: A New Algorithm for the Derivation of k_{cat}/K_M and K_i Values at Substrate Concentrations Much Lower than the Michaelis Constant. <i>Biochemistry</i> , 2000, 39, 13261-13268.	1.2	34
13	The Structure of the RNA Polymerase-Promoter Complex. <i>Journal of Molecular Biology</i> , 1994, 236, 1-6.	2.0	33
14	A Novel and Robust Homogeneous Fluorescence-Based Assay Using Nanoparticles for Pharmaceutical Screening and Diagnostics. <i>Journal of Biomolecular Screening</i> , 2000, 5, 227-237.	2.6	33
15	Potent and Selective Non-hydroxamate Histone Deacetylase Inhibitors. <i>ChemMedChem</i> , 2016, 11, 2598-2606.	1.6	31
16	Discovery of 5-naphthylidene-2,4-thiazolidinedione derivatives as selective HDAC8 inhibitors and evaluation of their cytotoxic effects in leukemic cell lines. <i>Bioorganic Chemistry</i> , 2020, 95, 103522.	2.0	31
17	Discovery of novel N-substituted thiazolidinediones (TZDs) as HDAC8 inhibitors: in-silico studies, synthesis, and biological evaluation. <i>Bioorganic Chemistry</i> , 2020, 100, 103934.	2.0	31
18	Histone deacetylase inhibitor assay based on fluorescence resonance energy transfer. <i>Analytical Biochemistry</i> , 2007, 362, 136-141.	1.1	29

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19	Thioester derivatives of the natural product psammaphin A as potent histone deacetylase inhibitors. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 81-88.	1.3	28
20	New synthetic strategies towards psammaphin A, access to natural product analogues for biological evaluation. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 659-662.	1.5	27
21	Thiocarbonyl Surrogate via Combination of Potassium Sulfide and Chloroform for Dithiocarbamate Construction. <i>Organic Letters</i> , 2019, 21, 7484-7488.	2.4	24
22	Fluorescence lifetime based bioassays. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 042002.	1.1	23
23	A fluorescence lifetime-based binding assay for acetyl/polyamine amidohydrolases from <i>Pseudomonas aeruginosa</i> using a [1,3]dioxolo[4,5-f][1,3]benzodioxole (DBD) ligand probe. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4889-4897.	1.9	22
24	A Fluorescence Lifetime-Based Binding Assay for Class II Histone Deacetylases. <i>Chemistry - A European Journal</i> , 2017, 23, 3107-3116.	1.7	22
25	Structure guided design and synthesis of furyl thiazolidinedione derivatives as inhibitors of GLUT 1 and GLUT 4, and evaluation of their anti-leukemic potential. <i>European Journal of Medicinal Chemistry</i> , 2020, 202, 112603.	2.6	22
26	Synthesis and Biological Evaluation of Pyrazoline and Pyrrolidine-2,5-dione Hybrids as Potential Antitumor Agents. <i>ChemMedChem</i> , 2020, 15, 1813-1825.	1.6	20
27	Permuted 2,4-thiazolidinedione (TZD) analogs as GLUT inhibitors and their in-vitro evaluation in leukemic cells. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 154, 105512.	1.9	20
28	Pharmacophore hybridization approach to discover novel pyrazoline-based hydantoin analogs with anti-tumor efficacy. <i>Bioorganic Chemistry</i> , 2021, 107, 104527.	2.0	20
29	Thiazolidinedione "Magic Bullets" Simultaneously Targeting PPAR γ and HDACs: Design, Synthesis, and Investigations of their <i>In Vitro</i> and <i>In Vivo</i> Antitumor Effects. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 6949-6971.	2.9	20
30	Non-isotopic dual parameter competition assay suitable for high-throughput screening of histone deacetylases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3651-3656.	1.0	19
31	Assessment of Tractable Cysteines for Covalent Targeting by Screening Covalent Fragments. <i>ChemBioChem</i> , 2021, 22, 743-753.	1.3	19
32	Non-Hydroxamate Zinc-Binding Groups as Warheads for Histone Deacetylases. <i>Molecules</i> , 2021, 26, 5151.	1.7	19
33	Compact, cost-efficient microfluidics-based stopped-flow device. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1117-1125.	1.9	18
34	Kinetic binding assays for the analysis of protein-ligand interactions. <i>Drug Discovery Today: Technologies</i> , 2015, 17, 1-8.	4.0	18
35	Identification of novel small-molecule histone deacetylase inhibitors by medium-throughput screening using a fluorogenic assay. <i>Biochemical Journal</i> , 2008, 413, 143-150.	1.7	17
36	Highly Ligand Efficient and Selective <i>N</i> -(Thioethyl)picolinamide Histone Deacetylase Inhibitors Inspired by the Natural Product Psammaphin...A. <i>ChemMedChem</i> , 2013, 8, 149-156.	1.6	17

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37	Synthesis of azobenzenealkylmaleimide probes to photocontrol the enzyme activity of a bacterial histone deacetylase-like amidohydrolase. <i>Bioorganic Chemistry</i> , 2014, 57, 155-161.	2.0	17
38	Kinetic method for the large-scale analysis of the binding mechanism of histone deacetylase inhibitors. <i>Analytical Biochemistry</i> , 2014, 460, 39-46.	1.1	17
39	Synthesis and structure activity relationship of 1, 3-benzo-thiazine-2-thiones as selective HDAC8 inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019, 184, 111756.	2.6	17
40	Discrimination between conformational selection and induced fit protein-ligand binding using Integrated Global Fit analysis. <i>European Biophysics Journal</i> , 2016, 45, 245-257.	1.2	15
41	Substrate specificity and function of acetylpolyamine amidohydrolases from <i>Pseudomonas aeruginosa</i> . <i>BMC Biochemistry</i> , 2016, 17, 4.	4.4	14
42	Mechanism of the β -galactosidase reaction of <i>E. coli</i> β -galactosidase deduced from fluorescence correlation spectroscopy measurements. <i>Biophysical Chemistry</i> , 1998, 75, 151-160.	1.5	13
43	The cyclic AMP receptor promoter DNA complex: A comparison of crystal and solution structure by quantitative molecular electrooptics 1 Edited by T. Richmond. <i>Journal of Molecular Biology</i> , 1997, 269, 842-850.	2.0	12
44	Novel fluorescence based receptor binding assay method for receptors lacking ligand conjugates with preserved affinity: Study on estrogen receptor α . <i>Biopolymers</i> , 2003, 72, 256-263.	1.2	12
45	Azobenzene switch with a long-lived cis-state to photocontrol the enzyme activity of a histone deacetylase-like amidohydrolase. <i>Biological Chemistry</i> , 2014, 395, 401-412.	1.2	12
46	Covalent inhibition of histone deacetylase 8 by 3,4-dihydro-2H-pyrimido[1,2-c][1,3]benzothiazin-6-imine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 577-585.	1.1	12
47	Multi-target weapons: diaryl-pyrazoline thiazolidinediones simultaneously targeting VEGFR-2 and HDAC cancer hallmarks. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1540-1554.	1.7	12
48	Transcriptomic and genomic studies classify NKL54 as a histone deacetylase inhibitor with indirect influence on MEF2-dependent transcription. <i>Nucleic Acids Research</i> , 2022, 50, 2566-2586.	6.5	12
49	Identification of Selective Class II Histone Deacetylase Inhibitors Using a Novel Dual-Parameter Binding Assay Based on Fluorescence Anisotropy and Lifetime. <i>Journal of Biomolecular Screening</i> , 2011, 16, 1206-1216.	2.6	11
50	Synthesis and biochemical analysis of 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoro-N-hydroxy-octanediamides as inhibitors of human histone deacetylases. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 985-995.	1.4	11
51	Discovery of Dihydro-1,4-Benzoxazine Carboxamides as Potent and Highly Selective Inhibitors of Sirtuin-1. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5838-5849.	2.9	11
52	The cis-state of an azobenzene photoswitch is stabilized through specific interactions with a protein surface. <i>Journal of Molecular Recognition</i> , 2015, 28, 201-209.	1.1	10
53	Inhibitor-mediated stabilization of the conformational structure of a histone deacetylase-like amidohydrolase. <i>FEBS Journal</i> , 2007, 274, 3578-3588.	2.2	8
54	Mechanism of Binding of the Inhibitor (E)-3-(Furan-2-yl)-N-hydroxyacrylamide to a Histone Deacetylase-like Amidohydrolase. <i>Biochemistry</i> , 2010, 49, 1418-1424.	1.2	8

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55	Crystal Structure of a Histone Deacetylase Homologue from <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2016, 55, 6858-6868.	1.2	8
56	HDAC4 Inhibitors with Cyclic Linker and Non-hydroxamate Zinc Binding Group: Design, Synthesis, HDAC Screening and <i>in vitro</i> Cytotoxicity evaluation.. <i>ChemistrySelect</i> , 2021, 6, 6748-6763.	0.7	8
57	Thermodynamics of ligand binding to histone deacetylase like amidohydrolase from <i>Bordetella/Alcaligenes</i> . <i>Journal of Molecular Recognition</i> , 2014, 27, 160-172.	1.1	7
58	Kinetically selective and potent inhibitors of HDAC8. <i>Biological Chemistry</i> , 2019, 400, 733-743.	1.2	7
59	Double-edged Swords: Diaryl pyrazoline thiazolidinediones synchronously targeting cancer epigenetics and angiogenesis. <i>Bioorganic Chemistry</i> , 2021, 116, 105350.	2.0	7
60	Mechanistic Insights into Binding of Ligands with Thiazolidinedione Warhead to Human Histone Deacetylase 4. <i>Pharmaceuticals</i> , 2021, 14, 1032.	1.7	7
61	Perfluorinated hydroxamic acids are potent and selective inhibitors of HDAC-like enzymes from <i>Pseudomonas aeruginosa</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1508-1512.	1.0	6
62	The thermodynamic signature of ligand binding to histone deacetylase-like amidohydrolases is most sensitive to the flexibility in the L2-loop lining the active site pocket. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1855-1863.	1.1	6
63	Switching the Switch: Ligand Induced Disulfide Formation in HDAC8. <i>Chemistry - A European Journal</i> , 2020, 26, 13249-13255.	1.7	6
64	Impact of binding mechanism on selective inhibition of histone deacetylase isoforms. <i>Chemical Biology and Drug Design</i> , 2017, 90, 1215-1225.	1.5	4
65	Development and investigation of thiazolidinedione and pyrazoline compounds as antiangiogenic weapons targeting VEGFR-2. <i>Future Medicinal Chemistry</i> , 2021, 13, 1963-1986.	1.1	4
66	Using design of experiment to optimize enzyme activity assays. <i>ChemTexts</i> , 2019, 5, 1.	1.0	2
67	Determination of the binding mechanism of histone deacetylase inhibitors. <i>Chemical Biology and Drug Design</i> , 2019, 93, 1214-1250.	1.5	2
68	Synthesis and HDAC inhibitory activity of pyrimidine-based hydroxamic acids. <i>Beilstein Journal of Organic Chemistry</i> , 0, 18, 837-844.	1.3	2
69	Novel Assay for Protein Impurities in Biopharmaceuticals Based on Fluorescence Intensity Distribution Analysis (FIDA)., 2001, , 488-490.		0
70	Abstract 5418: Thailandepsins: Novel bacterial natural products with potent histone deacetylase inhibition activities and promising anticancer activities. , 2011, , .		0
71	Fluorescence lifetime based assays in drug discovery. , 2018, 08, .		0
72	A Simple Metal-Ligand Catalyzed Heck-Type Reaction for β^2 , β^2 -Doublearylation of Acrylic Acid Esters. <i>Archives of Natural and Medicinal Chemistry</i> , 0, , .	0.0	0