Douglas S Auld

List of Publications by Year
in descending order

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40 papers	3,827 citations	257450 24 h-index	289244 40 g-index
40 all docs	40 docs citations	40 times ranked	4995 citing authors

#	Article	IF	Citations
1	Quantitative high-throughput screening: A titration-based approach that efficiently identifies biological activities in large chemical libraries. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11473-11478.	7.1	733
2	High-throughput screening assays for the identification of chemical probes. Nature Chemical Biology, 2007, 3, 466-479.	8.0	555
3	Apparent activity in high-throughput screening: origins of compound-dependent assay interference. Current Opinion in Chemical Biology, 2010, 14, 315-324.	6.1	365
4	Illuminating Insights into Firefly Luciferase and Other Bioluminescent Reporters Used in Chemical Biology. Chemistry and Biology, 2010, 17, 646-657.	6.0	264
5	Fluorescence Spectroscopic Profiling of Compound Libraries. Journal of Medicinal Chemistry, 2008, 51, 2363-2371.	6.4	247
6	Mechanism of PTC124 activity in cell-based luciferase assays of nonsense codon suppression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3585-3590.	7.1	182
7	Characterization of Chemical Libraries for Luciferase Inhibitory Activity. Journal of Medicinal Chemistry, 2008, 51, 2372-2386.	6.4	180
8	Molecular basis for the high-affinity binding and stabilization of firefly luciferase by PTC124. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4878-4883.	7.1	161
9	Firefly Luciferase in Chemical Biology: A Compendium of Inhibitors, Mechanistic Evaluation of Chemotypes, and Suggested Use As a Reporter. Chemistry and Biology, 2012, 19, 1060-1072.	6.0	122
10	A Specific Mechanism for Nonspecific Activation in Reporter-Gene Assays. ACS Chemical Biology, 2008, 3, 463-470.	3.4	109
11	Biochemical, Cellular, and Biophysical Characterization of a Potent Inhibitor of Mutant Isocitrate Dehydrogenase IDH1. Journal of Biological Chemistry, 2014, 289, 13717-13725.	3.4	78
12	Compound Management for Quantitative High-Throughput Screening. Journal of the Association for Laboratory Automation, 2008, 13, 79-89.	2.8	72
13	A Basis for Reduced Chemical Library Inhibition of Firefly Luciferase Obtained from Directed Evolution. Journal of Medicinal Chemistry, 2009, 52, 1450-1458.	6.4	70
14	Profile of the GSK Published Protein Kinase Inhibitor Set Across ATP-Dependent and-Independent Luciferases: Implications for Reporter-Gene Assays. PLoS ONE, 2013, 8, e57888.	2.5	65
15	Identification of Pregnane X Receptor Ligands Using Time-Resolved Fluorescence Resonance Energy Transfer and Quantitative High-Throughput Screening. Assay and Drug Development Technologies, 2009, 7, 143-169.	1.2	55
16	Potent and Selective Inhibitors of 8-Oxoguanine DNA Glycosylase. Journal of the American Chemical Society, 2018, 140, 2105-2114.	13.7	55
17	Titration-Based Screening for Evaluation of Natural Product Extracts: Identification of an Aspulvinone Family of Luciferase Inhibitors. Chemistry and Biology, 2011, 18, 1442-1452.	6.0	43
18	Reporter Enzyme Inhibitor Study To Aid Assembly of Orthogonal Reporter Gene Assays. ACS Chemical Biology, 2013, 8, 1009-1017.	3.4	43

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19	A Homogeneous, High-Throughput Assay for Phosphatidylinositol 5-Phosphate 4-Kinase with a Novel, Rapid Substrate Preparation. PLoS ONE, 2013, 8, e54127.	2.5	42
20	Assay Guidance Manual: Quantitative Biology and Pharmacology in Preclinical Drug Discovery. Clinical and Translational Science, 2018, 11, 461-470.	3.1	38
21	Systematic Chemogenetic Library Assembly. Cell Chemical Biology, 2020, 27, 1124-1129.	5.2	37
22	Nuisance compounds in cellular assays. Cell Chemical Biology, 2021, 28, 356-370.	5.2	37
23	Composition and applications of focus libraries to phenotypic assays. Frontiers in Pharmacology, 2014, 5, 164.	3.5	36
24	Cell size homeostasis is maintained by CDK4-dependent activation of p38 MAPK. Developmental Cell, 2021, 56, 1756-1769.e7.	7.0	35
25	Evolution of Novartisâ€™ Small Molecule Screening Deck Design. Journal of Medicinal Chemistry, 2020, 63, 14425-14447.	6.4	31
26	Probing the signaling requirements for naive human pluripotency by high-throughput chemical screening. Cell Reports, 2021, 35, 109233.	6.4	28
27	Identification of Therapeutic Candidates for Chronic Lymphocytic Leukemia from a Library of Approved Drugs. PLoS ONE, 2013, 8, e75252.	2.5	20
28	Characterization and Use of TurboLuc Luciferase as a Reporter for High-Throughput Assays. Biochemistry, 2018, 57, 4700-4706.	2.5	18
29	Identification and validation of selective deubiquitinase inhibitors. Cell Chemical Biology, 2021, 28, 1758-1771.e13.	5.2	17
30	Advancements in Assay Technologies and Strategies to Enable Drug Discovery. ACS Chemical Biology, 2020, 15, 2636-2648.	3.4	16
31	Comparison of Compound Administration Methods in Biochemical Assays: Effects on Apparent Compound Potency Using Either Assay-Ready Compound Plates or Pin Toolâ€“Delivered Compounds. Journal of Biomolecular Screening, 2013, 18, 14-25.	2.6	11
32	Application of Titration-Based Screening for the Rapid Pilot Testing of High-Throughput Assays. Journal of Biomolecular Screening, 2014, 19, 651-660.	2.6	11
33	Examining Ligand-Based Stabilization of Proteins in Cells with MEK1 Kinase Inhibitors. Assay and Drug Development Technologies, 2015, 13, 266-276.	1.2	11
34	Physicochemical Characterization of a Thermostable Alcohol Dehydrogenase from Pyrobaculum aerophilum. PLoS ONE, 2013, 8, e63828.	2.5	8
35	Bioluminescence Methods for Assaying Kinases in Quantitative High-Throughput Screening (qHTS) Format Applied to Yes1 Tyrosine Kinase, Glucokinase, and PI5P4Kî± Lipid Kinase. Methods in Molecular Biology, 2016, 1360, 47-58.	0.9	7
36	Generation of High-Throughput Three-Dimensional Tumor Spheroids for Drug Screening. Journal of Visualized Experiments, 2018, , .	0.3	6

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37	A Scalable Pipeline for High-Throughput Flow Cytometry. SLAS Discovery, 2018, 23, 708-718.	2.7	6
38	Addressing Compound Reactivity and Aggregation Assay Interferences: Case Studies of Biochemical High-Throughput Screening Campaigns Benefiting from the National Institutes of Health Assay Guidance Manual Guidelines. SLAS Discovery, 2021, 26, 1280-1290.	2.7	6
39	Identification of deubiquitinase inhibitors via high-throughput screening using a fluorogenic ubiquitin-rhodamine assay. STAR Protocols, 2021, 2, 100896.	1.2	4
40	Matrix-Based Activity Pattern Classification as a Novel Method for the Characterization of Enzyme Inhibitors Derived from High-Throughput Screening. Journal of Biomolecular Screening, 2016, 21, 1075-1089.	2.6	3