Michael J Keiser

List of Publications by Year
in descending order

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34 papers	6,063 citations	257450 24 h-index	377865 34 g-index
43 all docs	43 docs citations	43 times ranked	7448 citing authors

#	Article	IF	Citations
1	Relating protein pharmacology by ligand chemistry. Nature Biotechnology, 2007, 25, 197-206.	17.5	1,722
2	Predicting new molecular targets for known drugs. Nature, 2009, 462, 175-181.	27.8	1,474
3	Large-scale prediction and testing of drug activity on side-effect targets. Nature, 2012, 486, 361-367.	27.8	782
4	Complementarity Between a Docking and a High-Throughput Screen in Discovering New Cruzain Inhibitors. Journal of Medicinal Chemistry, 2010, 53, 4891-4905.	6.4	199
5	Quantifying biogenic bias in screening libraries. Nature Chemical Biology, 2009, 5, 479-483.	8.0	198
6	Quantifying the Relationships among Drug Classes. Journal of Chemical Information and Modeling, 2008, 48, 755-765.	5.4	160
7	Zebrafish behavioral profiling identifies multitarget antipsychotic-like compounds. Nature Chemical Biology, 2016, 12, 559-566.	8.0	124
8	Interpretable classification of Alzheimerâ€™s disease pathologies with a convolutional neural network pipeline. Nature Communications, 2019, 10, 2173.	12.8	116
9	Chemical informatics and target identification in a zebrafish phenotypic screen. Nature Chemical Biology, 2012, 8, 144-146.	8.0	113
10	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. Cell, 2018, 174, 505-520.	28.9	108
11	Polygenic overlap between schizophrenia risk and antipsychotic response: a genomic medicine approach. Lancet Psychiatry,the, 2016, 3, 350-357.	7.4	107
12	Learning Molecular Representations for Medicinal Chemistry. Journal of Medicinal Chemistry, 2020, 63, 8705-8722.	6.4	105
13	Artificial Intelligence in Dermatology: A Primer. Journal of Investigative Dermatology, 2020, 140, 1504-1512.	0.7	100
14	Comment on â€œPredicting reaction performance in Câ€“N cross-coupling using machine learningâ€• Science, 2018, 362, .	12.6	96
15	The Chemical Basis of Pharmacology. Biochemistry, 2010, 49, 10267-10276.	2.5	93
16	A Simple Representation of Three-Dimensional Molecular Structure. Journal of Medicinal Chemistry, 2017, 60, 7393-7409.	6.4	72
17	The Presynaptic Component of the Serotonergic System is Required for Clozapine's Efficacy. Neuropsychopharmacology, 2011, 36, 638-651.	5.4	63
18	Evolutionarily Conserved Roles for Blood-Brain Barrier Xenobiotic Transporters in Endogenous Steroid Partitioning and Behavior. Cell Reports, 2017, 21, 1304-1316.	6.4	48

#	Article	IF	Citations
19	Adversarial Controls for Scientific Machine Learning. ACS Chemical Biology, 2018, 13, 2819-2821.	3.4	47
20	Prediction and Evaluation of Protein Farnesyltransferase Inhibition by Commercial Drugs. Journal of Medicinal Chemistry, 2010, 53, 2464-2471.	6.4	42
21	Prediction and validation of enzyme and transporter off-targets for metformin. Journal of Pharmacokinetics and Pharmacodynamics, 2015, 42, 463-475.	1.8	37
22	Predicted Biological Activity of Purchasable Chemical Space. Journal of Chemical Information and Modeling, 2018, 58, 148-164.	5.4	35
23	A Mapping of Drug Space from the Viewpoint of Small Molecule Metabolism. PLoS Computational Biology, 2009, 5, e1000474.	3.2	34
24	Leveraging Large-scale Behavioral Profiling in Zebrafish to Explore Neuroactive Polypharmacology. ACS Chemical Biology, 2016, 11, 842-849.	3.4	28
25	Zebrafish behavioural profiling identifies GABA and serotonin receptor ligands related to sedation and paradoxical excitation. Nature Communications, 2019, 10, 4078.	12.8	27
26	Stress testing reveals gaps in clinic readiness of image-based diagnostic artificial intelligence models. Npj Digital Medicine, 2021, 4, 10.	10.9	25
27	Validation of machine learning models to detect amyloid pathologies across institutions. Acta Neuropathologica Communications, 2020, 8, 59.	5.2	20
28	Off-Target Networks Derived from Ligand Set Similarity. Methods in Molecular Biology, 2009, 575, 195-205.	0.9	20
29	In Silico Molecular Comparisons of C. elegans and Mammalian Pharmacology Identify Distinct Targets That Regulate Feeding. PLoS Biology, 2013, 11, e1001712.	5.6	18
30	Adding Stochastic Negative Examples into Machine Learning Improves Molecular Bioactivity Prediction. Journal of Chemical Information and Modeling, 2020, 60, 5957-5970.	5.4	16
31	Deep learning from multiple experts improves identification of amyloid neuropathologies. Acta Neuropathologica Communications, 2022, 10, 66.	5.2	12
32	Trans-channel fluorescence learning improves high-content screening for Alzheimerâ€™s disease therapeutics. Nature Machine Intelligence, 2022, 4, 583-595.	16.0	9
33	A pilot study of the pharmacodynamic impact of SSRI drug selection and beta-1 receptor genotype (ADRB1) on cardiac vital signs in depressed patients: a novel pharmacogenetic approach. Psychopharmacology Bulletin, 2010, 43, 11-22.	0.0	6
34	Chemoinformatic Approaches to Target Identification. RSC Drug Discovery Series, 2012, , 50-65.	0.3	0