

# Randall J. Platt

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29  
papers

4,331  
citations

16  
h-index

33  
g-index

33  
ext. papers

5,478  
ext. citations

23  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
29	miR-137 and miR-122, two outer subventricular zone non-coding RNAs, regulate basal progenitor expansion and neuronal differentiation.. <i>Cell Reports</i> , <b>2022</b> , 38, 110381	10.6	0
28	Noninvasive assessment of gut function using transcriptional recording sentinel cells.. <i>Science</i> , <b>2022</b> , 376, eabm6038	33.3	5
27	Temporal controls over inter-areal cortical projection neuron fate diversity. <i>Nature</i> , <b>2021</b> , 599, 453-457	50.4	1
26	Voices of biotech research. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 281-286	44.5	1
25	Engineered bacteria to report gut function: technologies and implementation. <i>Current Opinion in Microbiology</i> , <b>2021</b> , 59, 24-33	7.9	6
24	Multiplexed Genome Engineering with Cas12a. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2312, 171-192	1.4	0
23	Regulation of purine metabolism connects KCTD13 to a metabolic disorder with autistic features. <i>iScience</i> , <b>2021</b> , 24, 101935	6.1	1
22	Moving from in vitro to in vivo CRISPR screens <b>2021</b> , 2, 100008		4
21	Recording transcriptional histories using Record-seq. <i>Nature Protocols</i> , <b>2020</b> , 15, 513-539	18.8	8
20	Mapping human cell phenotypes to genotypes with single-cell genomics. <i>Science</i> , <b>2019</b> , 365, 1401-1405	33.3	43
19	Multiplexed genome engineering by Cas12a and CRISPR arrays encoded on single transcripts. <i>Nature Methods</i> , <b>2019</b> , 16, 887-893	21.6	103
18	Mapping a functional cancer genome atlas of tumor suppressors in mouse liver using AAV-CRISPR-mediated direct in vivo screening. <i>Science Advances</i> , <b>2018</b> , 4, eaao5508	14.3	37
17	Transcriptional recording by CRISPR spacer acquisition from RNA. <i>Nature</i> , <b>2018</b> , 562, 380-385	50.4	70
16	Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. <i>Cell Reports</i> , <b>2017</b> , 19, 335-350	35.0	115
15	Applications of CRISPR-Cas for synthetic biology and genetic recording. <i>Current Opinion in Systems Biology</i> , <b>2017</b> , 5, 9-15	3.2	12
14	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. <i>Nature Protocols</i> , <b>2017</b> , 12, 828-863	18.8	459
13	Thyroid hormone receptor beta and NCOA4 regulate terminal erythrocyte differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10107-10112	11.5	24

12	AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 1329-1341	25.5	119
11	Microfluidic device for the formation of optically excitable, three-dimensional, compartmentalized motor units. <i>Science Advances</i> , <b>2016</b> , 2, e1501429	14.3	138
10	Optogenetic skeletal muscle-powered adaptive biological machines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3497-502	11.5	150
9	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. <i>Cell</i> , <b>2015</b> , 162, 675-86	56.2	288
8	Therapeutic genome editing: prospects and challenges. <i>Nature Medicine</i> , <b>2015</b> , 21, 121-31	50.5	809
7	Efficient CRISPR-Cas9-mediated genome editing in <i>Plasmodium falciparum</i> . <i>Nature Methods</i> , <b>2014</b> , 11, 915-8	21.6	162
6	CRISPR-Cas9 knockin mice for genome editing and cancer modeling. <i>Cell</i> , <b>2014</b> , 159, 440-55	56.2	1089
5	From molecular phylogeny towards differentiating pharmacology for NMDA receptor subtypes. <i>Toxicon</i> , <b>2014</b> , 81, 67-79	2.8	9
4	Optical control of mammalian endogenous transcription and epigenetic states. <i>Nature</i> , <b>2013</b> , 500, 472-476	36.4	635
3	Conantokins derived from the <i>Asprella</i> clade impart conRI-B, an N-methyl d-aspartate receptor antagonist with a unique selectivity profile for NR2B subunits. <i>Biochemistry</i> , <b>2012</b> , 51, 4685-92	3.2	13
2	Stapling mimics noncovalent interactions of $\beta$ -carboxyglutamates in conantokins, peptidic antagonists of N-methyl-D-aspartic acid receptors. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 20727-36	5.4	19
1	Protocol: Genome-scale CRISPR-Cas9 Knockout and Transcriptional Activation Screening		2