

# Philip A Romero

## List of Publications by Citations

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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.

26

papers

1,355

citations

11

h-index

36

g-index

36

ext. papers

1,747

ext. citations

11.7

avg, IF

5.02

L-index

#	Paper	IF	Citations
26	Exploring protein fitness landscapes by directed evolution. <i>Nature Reviews Molecular Cell Biology</i> , <b>2009</b> , 10, 866-76	48.7	653
25	Navigating the protein fitness landscape with Gaussian processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E193-201	11.5	153
24	Dissecting enzyme function with microfluidic-based deep mutational scanning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7159-64	11.5	131
23	Directed evolution of a magnetic resonance imaging contrast agent for noninvasive imaging of dopamine. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 264-70	44.5	128
22	SCHEMA-designed variants of human Arginase I and II reveal sequence elements important to stability and catalysis. <i>ACS Synthetic Biology</i> , <b>2012</b> , 1, 221-8	5.7	44
21	InVivo Selection of a Computationally Designed SCHEMA AAV Library Yields a Novel Variant for Infection of Adult Neural Stem Cells in the SVZ. <i>Molecular Therapy</i> , <b>2018</b> , 26, 304-319	11.7	43
20	Microbial Interaction Network Inference in Microfluidic Droplets. <i>Cell Systems</i> , <b>2019</b> , 9, 229-242.e4	10.6	42
19	Flow focusing geometry generates droplets through a plug and squeeze mechanism. <i>Lab on A Chip</i> , <b>2012</b> , 12, 5130-2	7.2	31
18	Investigating the dynamics of microbial consortia in spatially structured environments. <i>Nature Communications</i> , <b>2020</b> , 11, 2418	17.4	27
17	Chimeragenesis of distantly-related proteins by noncontiguous recombination. <i>Protein Science</i> , <b>2013</b> , 22, 231-8	6.3	26
16	Efficient sampling of SCHEMA chimera families to identify useful sequence elements. <i>Methods in Enzymology</i> , <b>2013</b> , 523, 351-68	1.7	16
15	Neural networks to learn protein sequence-function relationships from deep mutational scanning data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	10
14	Inferring Protein Sequence-Function Relationships with Large-Scale Positive-Unlabeled Learning. <i>Cell Systems</i> , <b>2021</b> , 12, 92-101.e8	10.6	10
13	Random field model reveals structure of the protein recombinational landscape. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002713	5	8
12	Machine learning-guided acyl-ACP reductase engineering for improved in vivo fatty alcohol production. <i>Nature Communications</i> , <b>2021</b> , 12, 5825	17.4	7
11	Neural networks to learn protein sequence-function relationships from deep mutational scanning data		6
10	Discovery of human ACE2 variants with altered recognition by the SARS-CoV-2 spike protein. <i>PLoS ONE</i> , <b>2021</b> , 16, e0251585	3.7	5

9	Discovery of human ACE2 variants with altered recognition by the SARS-CoV-2 spike protein <b>2020</b> ,		4
8	Directed evolution of protein-based neurotransmitter sensors for MRI. <i>Methods in Molecular Biology</i> , <b>2013</b> , 995, 193-205	1.4	3
7	Inferring protein sequence-function relationships with large-scale positive-unlabeled learning		3
6	Active and machine learning-based approaches to rapidly enhance microbial chemical production. <i>Metabolic Engineering</i> , <b>2021</b> , 67, 216-226	9.7	2
5	Machine learning to navigate fitness landscapes for protein engineering.. <i>Current Opinion in Biotechnology</i> , <b>2022</b> , 75, 102713	11.4	2
4	Microfluidic deep mutational scanning of the human executioner caspases reveals differences in structure and regulation.. <i>Cell Death Discovery</i> , <b>2022</b> , 8, 7	6.9	1
3	Single-cell nucleic acid profiling in droplets (SNAPD) enables high-throughput analysis of heterogeneous cell populations. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, e103	20.1	0
2	Data-driven Protein Engineering <b>2021</b> , 133-151		0
1	Identifying Residue-Residue Contacts via Deep Mutational Scanning. <i>FASEB Journal</i> , <b>2018</b> , 32, 792.9	0.9	