Wendell A Lim

List of Publications by Year
in descending order

56 papers	10,439 citations	101543 36 h-index	182427 51 g-index
57 all docs	57 docs citations	57 times ranked	12982 citing authors

#	Article	IF	Citations
1	The genome of the choanoflagellate Monosiga brevicollis and the origin of metazoans. Nature, 2008, 451, 783-788.	27.8	1,006
2	The Principles of Engineering Immune Cells to Treat Cancer. Cell, 2017, 168, 724-740.	28.9	844
3	Engineering Complex Synthetic Transcriptional Programs with CRISPR RNA Scaffolds. Cell, 2015, 160, 339-350.	28.9	809
4	Precision Tumor Recognition by T Cells With Combinatorial Antigen-Sensing Circuits. Cell, 2016, 164, 770-779.	28.9	737
5	Beyond editing: repurposing CRISPR–Cas9 for precision genome regulation and interrogation. Nature Reviews Molecular Cell Biology, 2016, 17, 5-15.	37.0	698
6	Engineering Customized Cell Sensing and Response Behaviors Using Synthetic Notch Receptors. Cell, 2016, 164, 780-791.	28.9	679
7	Remote control of therapeutic T cells through a small molecule–gated chimeric receptor. Science, 2015, 350, aab4077.	12.6	543
8	Engineering T Cells with Customized Therapeutic Response Programs Using Synthetic Notch Receptors. Cell, 2016, 167, 419-432.e16.	28.9	485
9	Using Optogenetics to Interrogate the Dynamic Control of Signal Transmission by the Ras/Erk Module. Cell, 2013, 155, 1422-1434.	28.9	476
10	Programming self-organizing multicellular structures with synthetic cell-cell signaling. Science, 2018, 361, 156-162.	12.6	343
11	Phosphotyrosine Signaling: Evolving a New Cellular Communication System. Cell, 2010, 142, 661-667.	28.9	316
12	Complex transcriptional modulation with orthogonal and inducible dCas9 regulators. Nature Methods, 2016, 13, 1043-1049.	19.0	271
13	Light-based feedback for controlling intracellular signaling dynamics. Nature Methods, 2011, 8, 837-839.	19.0	249
14	Designing customized cell signalling circuits. Nature Reviews Molecular Cell Biology, 2010, 11, 393-403.	37.0	237
15	SynNotch-CAR T cells overcome challenges of specificity, heterogeneity, and persistence in treating glioblastoma. Science Translational Medicine, 2021, 13, .	12.4	215
16	Build life to understand it. Nature, 2010, 468, 889-890.	27.8	196
17	Nucleosome breathing and remodeling constrain CRISPR-Cas9 function. ELife, 2016, 5, .	6.0	193
18	Expanding the CRISPR imaging toolset with <i>Staphylococcus aureus</i> Cas9 for simultaneous imaging of multiple genomic loci. Nucleic Acids Research, 2016, 44, e75-e75.	14.5	155

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19	Design Principles of Regulatory Networks: Searching for the Molecular Algorithms of the Cell. Molecular Cell, 2013, 49, 202-212.	9.7	139
20	The modular logic of signaling proteins: building allosteric switches from simple binding domains. Current Opinion in Structural Biology, 2002, 12, 61-68.	5.7	135
21	Tracing Information Flow from Erk to Target Gene Induction Reveals Mechanisms of Dynamic and Combinatorial Control. Molecular Cell, 2017, 67, 757-769.e5.	9.7	133
22	An Analysis of the Interactions between the Semâˆ'5 SH3 Domain and Its Ligands Using Molecular Dynamics, Free Energy Calculations, and Sequence Analysis. Journal of the American Chemical Society, 2001, 123, 3986-3994.	13.7	130
23	Cancer mutations and targeted drugs can disrupt dynamic signal encoding by the Ras-Erk pathway. Science, 2018, 361, .	12.6	118
24	Energetic Determinants of Internal Motif Recognition by PDZ Domains. Biochemistry, 2001, 40, 5921-5930.	2.5	116
25	T cell circuits that sense antigen density with an ultrasensitive threshold. Science, 2021, 371, 1166-1171.	12.6	99
26	Synthetic Immunology: Hacking Immune Cells to Expand Their Therapeutic Capabilities. Annual Review of Immunology, 2017, 35, 229-253.	21.8	96
27	Oscillatory stress stimulation uncovers an Achillesâ€™ heel of the yeast MAPK signaling network. Science, 2015, 350, 1379-1383.	12.6	86
28	Precise T cell recognition programs designed by transcriptionally linking multiple receptors. Science, 2020, 370, 1099-1104.	12.6	85
29	Engineering synthetic morphogen systems that can program multicellular patterning. Science, 2020, 370, 327-331.	12.6	82
30	CRISPR/Cas9 for Human Genome Engineering and Disease Research. Annual Review of Genomics and Human Genetics, 2016, 17, 131-154.	6.2	80
31	High-throughput multicolor optogenetics in microwell plates. Nature Protocols, 2019, 14, 2205-2228.	12.0	78
32	Modular engineering of cellular signaling proteins and networks. Current Opinion in Structural Biology, 2016, 39, 106-114.	5.7	59
33	Engineering Therapeutic T Cells: From Synthetic Biology to Clinical Trials. Annual Review of Pathology: Mechanisms of Disease, 2017, 12, 305-330.	22.4	54
34	Discriminatory Power of Combinatorial Antigen Recognition in Cancer T Cell Therapies. Cell Systems, 2020, 11, 215-228.e5.	6.2	52
35	Engineering cellâ€“cell communication networks: programming multicellular behaviors. Current Opinion in Chemical Biology, 2019, 52, 31-38.	6.1	51
36	Engineering dynamical control of cell fate switching using synthetic phospho-regulons. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13528-13533.	7.1	48

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37	Differential genetic interactions of yeast stress response <scp>MAPK</scp> pathways. Molecular Systems Biology, 2015, 11, 800.	7.2	47
38	Design of Tunable Oscillatory Dynamics in a Synthetic NF-κB Signaling Circuit. Cell Systems, 2017, 5, 460-470.e5.	6.2	39
39	Synthetic biology approaches to engineer T cells. Current Opinion in Immunology, 2015, 35, 123-130.	5.5	34
40	T cells selectively filter oscillatory signals on the minutes timescale. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
41	Interrogating cellular perception and decision making with optogenetic tools. Journal of Cell Biology, 2017, 216, 25-28.	5.2	30
42	The Design Principles of Biochemical Timers: Circuits that Discriminate between Transient and Sustained Stimulation. Cell Systems, 2019, 9, 297-308.e2.	6.2	27
43	Cellular perception and misperception: Internal models for decision–making shaped by evolutionary experience. BioEssays, 2016, 38, 845-849.	2.5	21
44	Synthetic development: learning to program multicellular self-organization. Current Opinion in Systems Biology, 2019, 14, 41-49.	2.6	21
45	Engineering cytokines and cytokine circuits. Science, 2020, 370, 1034-1035.	12.6	20
46	Response to Comment on "Positive Selection of Tyrosine Loss in Metazoan Evolution". Science, 2011, 332, 917-917.	12.6	15
47	Sending Mixed Messages for Cell Population Control. Cell, 2014, 158, 973-975.	28.9	14
48	Engineering T Cells to Treat Cancer: The Convergence of Immuno-Oncology and Synthetic Biology. Annual Review of Cancer Biology, 2020, 4, 121-139.	4.5	13
49	Mapping the functional versatility and fragility of Ras GTPase signaling circuits through in vitro network reconstitution. ELife, 2016, 5, .	6.0	12
50	Simple Rules Determine Distinct Patterns of Branching Morphogenesis. Cell Systems, 2019, 9, 221-227.	6.2	9
51	The double life of PX domains. , 2001, 8, 570-572.		7
52	Frederic M Richards 1925–2009. Nature Structural and Molecular Biology, 2009, 16, 230-232.	8.2	0
53	Bridging cross-cultural gaps in scientific exchange through innovative team challenge workshops. Quantitative Biology, 2013, 1, 3-8.	0.5	0
54	Building a Stable Relationship: Ensuring Homeostasis among Cell Types within a Tissue. Cell, 2018, 172, 638-640.	28.9	0

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55	The Modular Logic of Cell Signaling Systems. FASEB Journal, 2006, 20, A1473.	0.5	0
56	The Design Logic of Cell Signaling Systems. FASEB Journal, 2010, 24, 410.2.	0.5	0