Neel H Shah

List of Publications by Year
in descending order

31 papers	2,058 citations	331259 21 h-index	433756 31 g-index
44 all docs	44 docs citations	44 times ranked	2471 citing authors

#	Article	IF	Citations
1	Inteins: nature's gift to protein chemists. Chemical Science, 2014, 5, 446-461.	3.7	310
2	Oligo(N-aryl glycines): A New Twist on Structured Peptoids. Journal of the American Chemical Society, 2008, 130, 16622-16632.	6.6	186
3	Design of a Split Intein with Exceptional Protein Splicing Activity. Journal of the American Chemical Society, 2016, 138, 2162-2165.	6.6	133
4	Ultrafast Protein Splicing is Common among Cyanobacterial Split Inteins: Implications for Protein Engineering. Journal of the American Chemical Society, 2012, 134, 11338-11341.	6.6	122
5	Lck promotes Zap70-dependent LAT phosphorylation by bridging Zap70 to LAT. Nature Immunology, 2018, 19, 733-741.	7.0	115
6	ZAP-70 in Signaling, Biology, and Disease. Annual Review of Immunology, 2018, 36, 127-156.	9.5	105
7	A promiscuous split intein with expanded protein engineering applications. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8538-8543.	3.3	102
8	Deconstruction of the Ras switching cycle through saturation mutagenesis. ELife, 2017, 6, .	2.8	95
9	Streamlined Expressed Protein Ligation Using Split Inteins. Journal of the American Chemical Society, 2013, 135, 286-292.	6.6	90
10	An electrostatic selection mechanism controls sequential kinase signaling downstream of the T cell receptor. ELife, 2016, 5, .	2.8	85
11	Slow phosphorylation of a tyrosine residue in LAT optimizes T cell ligand discrimination. Nature Immunology, 2019, 20, 1481-1493.	7.0	64
12	Extein Residues Play an Intimate Role in the Rate-Limiting Step of Protein Trans-Splicing. Journal of the American Chemical Society, 2013, 135, 5839-5847.	6.6	63
13	Naturally Split Inteins Assemble through a â€œCapture and Collapseâ€•Mechanism. Journal of the American Chemical Society, 2013, 135, 18673-18681.	6.6	63
14	The Src module: an ancient scaffold in the evolution of cytoplasmic tyrosine kinases. Critical Reviews in Biochemistry and Molecular Biology, 2018, 53, 535-563.	2.3	62
15	Peptoid Atropisomers. Journal of the American Chemical Society, 2011, 133, 10910-10919.	6.6	61
16	Kinetic Control of Oneâ€Pot Transâ€Splicing Reactions by Using a Wildâ€Type and Designed Split Intein. Angewandte Chemie - International Edition, 2011, 50, 6511-6515.	7.2	61
17	Structural and Dynamical Features of Inteins and Implications on Protein Splicing. Journal of Biological Chemistry, 2014, 289, 14506-14511.	1.6	55
18	Fine-tuning of substrate preferences of the Src-family kinase Lck revealed through a high-throughput specificity screen. ELife, 2018, 7, .	2.8	51

#	Article	IF	Citations
19	Prediction of proteinâ€“ligand binding affinity from sequencing data with interpretable machine learning. Nature Biotechnology, 2022, 40, 1520-1527.	9.4	38
20	Split Inteins: Natureâ€™s Protein Ligases. Israel Journal of Chemistry, 2011, 51, 854-861.	1.0	31
21	Deep mutational analysis reveals functional trade-offs in the sequences of EGFR autophosphorylation sites. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7303-E7312.	3.3	28
22	Understanding molecular mechanisms in cell signaling through natural and artificial sequence variation. Nature Structural and Molecular Biology, 2019, 26, 25-34.	3.6	28
23	Photoresponsive peptoid oligomers bearing azobenzene side chains. Organic and Biomolecular Chemistry, 2008, 6, 2516.	1.5	24
24	Modification by covalent reaction or oxidation of cysteine residues in the tandem-SH2 domains of ZAP-70 and Syk can block phosphopeptide binding. Biochemical Journal, 2015, 465, 149-161.	1.7	21
25	Variation in assembly stoichiometry in nonâ€metazoan homologs of the hub domain of Ca²⁺/calmodulinâ€dependent protein kinase II. Protein Science, 2019, 28, 1071-1082.	3.1	16
26	A saturation-mutagenesis analysis of the interplay between stability and activation in Ras. ELife, 2022, 11, .	2.8	13
27	Differences in the dynamics of the <scp>tandemâ€SH2</scp> modules of the Syk and <scp>ZAP</scp>â€70 tyrosine kinases. Protein Science, 2021, 30, 2373-2384.	3.1	10
28	Direct Generation of Polymer Films on Copper Surfaces through Azideâ€Alkyne Cycloaddition Reactions between Peptidomimetic Oligomers. Macromolecular Rapid Communications, 2008, 29, 1134-1139.	2.0	6
29	Structural and dynamical features of inteins and implications on protein splicing.. Journal of Biological Chemistry, 2014, 289, 19278.	1.6	1
30	Learning from ancestors. ELife, 2019, 8, .	2.8	1
31	Identification, Characterization, and Optimization of Split Inteins. Methods in Molecular Biology, 2020, 2133, 31-54.	0.4	1