

Arne Schon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9757527/publications.pdf>

Version: 2024-02-01

45
papers

3,127
citations

257357

24
h-index

214721

47
g-index

47
all docs

47
docs citations

47
times ranked

4819
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Surface Polyethylene Glycol (PEG) Density on Biodegradable Nanoparticle Transport in Mucus <i>ex Vivo</i> and Distribution <i>in Vivo</i> . <i>ACS Nano</i> , 2015, 9, 9217-9227.	7.3	425
2	Crystal structure, conformational fixation and entry-related interactions of mature ligand-free HIV-1 Env. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 522-531.	3.6	333
3	Cryo-EM Structures of SARS-CoV-2 Spike without and with ACE2 Reveal a pH-Dependent Switch to Mediate Endosomal Positioning of Receptor-Binding Domains. <i>Cell Host and Microbe</i> , 2020, 28, 867-879.e5.	5.1	316
4	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. <i>Nature Medicine</i> , 2018, 24, 408-416.	15.2	235
5	Thermodynamics of Binding of a Low-Molecular-Weight CD4 Mimetic to HIV-1 gp120. <i>Biochemistry</i> , 2006, 45, 10973-10980.	1.2	151
6	Chapter 5 Isothermal Titration Calorimetry. <i>Methods in Enzymology</i> , 2009, 455, 127-155.	0.4	142
7	Single-Chain Soluble BG505.SOSIP gp140 Trimers as Structural and Antigenic Mimics of Mature Closed HIV-1 Env. <i>Journal of Virology</i> , 2015, 89, 5318-5329.	1.5	125
8	CD4 mimetics sensitize HIV-1-infected cells to ADCC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2687-94.	3.3	118
9	Crystal structures of trimeric HIV envelope with entry inhibitors BMS-378806 and BMS-626529. <i>Nature Chemical Biology</i> , 2017, 13, 1115-1122.	3.9	110
10	Antibody Lineages with Vaccine-Induced Antigen-Binding Hotspots Develop Broad HIV Neutralization. <i>Cell</i> , 2019, 178, 567-584.e19.	13.5	106
11	A Potent Anti-Malarial Human Monoclonal Antibody Targets Circumsporozoite Protein Minor Repeats and Neutralizes Sporozoites in the Liver. <i>Immunity</i> , 2020, 53, 733-744.e8.	6.6	99
12	The β 20 β 21 of gp120 is a regulatory switch for HIV-1 Env conformational transitions. <i>Nature Communications</i> , 2017, 8, 1049.	5.8	88
13	Small-Molecule CD4-Mimics: Structure-Based Optimization of HIV-1 Entry Inhibition. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 330-334.	1.3	86
14	Temperature stability of proteins: Analysis of irreversible denaturation using isothermal calorimetry. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 2009-2016.	1.5	57
15	The binding of HIV-1 protease inhibitors to human serum proteins. <i>Biophysical Chemistry</i> , 2003, 105, 221-230.	1.5	55
16	CD4-Mimetic Small Molecules Sensitize Human Immunodeficiency Virus to Vaccine-Elicited Antibodies. <i>Journal of Virology</i> , 2014, 88, 6542-6555.	1.5	55
17	Targeting the pregnane X receptor using microbial metabolite mimicry. <i>EMBO Molecular Medicine</i> , 2020, 12, e11621.	3.3	53
18	Thermodynamics-based drug design: strategies for inhibiting protein-protein interactions. <i>Future Medicinal Chemistry</i> , 2011, 3, 1129-1137.	1.1	51

#	ARTICLE	IF	CITATIONS
19	Lattice engineering enables definition of molecular features allowing for potent small-molecule inhibition of HIV-1 entry. <i>Nature Communications</i> , 2019, 10, 47.	5.8	50
20	Impact of temperature on the affinity of SARS-CoV-2 Spike glycoprotein for host ACE2. <i>Journal of Biological Chemistry</i> , 2021, 297, 101151.	1.6	42
21	Preclinical Development of a Fusion Peptide Conjugate as an HIV Vaccine Immunogen. <i>Scientific Reports</i> , 2020, 10, 3032.	1.6	36
22	Some Binding-Related Drug Properties are Dependent on Thermodynamic Signature. <i>Chemical Biology and Drug Design</i> , 2011, 77, 161-165.	1.5	35
23	Ligand binding analysis and screening by chemical denaturation shift. <i>Analytical Biochemistry</i> , 2013, 443, 52-57.	1.1	35
24	Garcinoic Acid Is a Natural and Selective Agonist of Pregnane X Receptor. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3701-3712.	2.9	27
25	Enhancing durability of CIS43 monoclonal antibody by Fc mutation or AAV delivery for malaria prevention. <i>JCI Insight</i> , 2021, 6, .	2.3	25
26	Denatured state aggregation parameters derived from concentration dependence of protein stability. <i>Analytical Biochemistry</i> , 2015, 488, 45-50.	1.1	24
27	SOSIP Changes Affect Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Conformation and CD4 Engagement. <i>Journal of Virology</i> , 2018, 92, .	1.5	24
28	Mutational fitness landscapes reveal genetic and structural improvement pathways for a vaccine-elicited HIV-1 broadly neutralizing antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
29	Functional human IgA targets a conserved site on malaria sporozoites. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	21
30	Enthalpy screen of drug candidates. <i>Analytical Biochemistry</i> , 2016, 513, 1-6.	1.1	20
31	Conformational stability and self-association equilibrium in biologics. <i>Drug Discovery Today</i> , 2016, 21, 342-347.	3.2	20
32	Protective effects of combining monoclonal antibodies and vaccines against the <i>Plasmodium falciparum</i> circumsporozoite protein. <i>PLoS Pathogens</i> , 2021, 17, e1010133.	2.1	20
33	Vaccination in a humanized mouse model elicits highly protective PfCSP-targeting anti-malarial antibodies. <i>Immunity</i> , 2021, 54, 2859-2876.e7.	6.6	19
34	Bioinspired supramolecular engineering of self-assembling immunofibers for high affinity binding of immunoglobulin G. <i>Biomaterials</i> , 2018, 178, 448-457.	5.7	14
35	Reversibility and irreversibility in the temperature denaturation of monoclonal antibodies. <i>Analytical Biochemistry</i> , 2021, 626, 114240.	1.1	12
36	A novel lipoate attachment enzyme is shared by <i>Plasmodium</i> and <i>Chlamydia</i> species. <i>Molecular Microbiology</i> , 2017, 106, 439-451.	1.2	11

#	ARTICLE	IF	CITATIONS
37	The light chain of the L9 antibody is critical for binding circumsporozoite protein minor repeats and preventing malaria. <i>Cell Reports</i> , 2022, 38, 110367.	2.9	11
38	Highly protective antimalarial antibodies via precision library generation and yeast display screening. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	9
39	Long term stability of a HIV-1 neutralizing monoclonal antibody using isothermal calorimetry. <i>Analytical Biochemistry</i> , 2018, 554, 61-69.	1.1	8
40	Optimization of Small Molecules That Sensitize HIV-1 Infected Cells to Antibody-Dependent Cellular Cytotoxicity. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 371-378.	1.3	8
41	Development of high-affinity nanobodies specific for NaV1.4 and NaV1.5 voltage-gated sodium channel isoforms. <i>Journal of Biological Chemistry</i> , 2022, 298, 101763.	1.6	7
42	Three easy pieces. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 975-980.	1.1	6
43	Disulfide stabilization of human norovirus GI.1 virus-like particles focuses immune response toward blockade epitopes. <i>Npj Vaccines</i> , 2020, 5, 110.	2.9	6
44	Binding Thermodynamics to Intrinsically Disordered Protein Domains. <i>Methods in Molecular Biology</i> , 2020, 2141, 449-462.	0.4	4
45	Strategies for targeting HIV-1 envelope glycoprotein gp120 in the development of new antivirals. <i>Future HIV Therapy</i> , 2007, 1, 223-229.	0.5	2