

Robert J Perz-Edwards

List of Publications by Citations

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39
papers

1,353
citations

18
h-index

36
g-index

45
ext. papers

2,248
ext. citations

13.1
avg, IF

4.89
L-index

#	Paper	IF	Citations
39	Controlling the SARS-CoV-2 spike glycoprotein conformation. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 925-933	17.6	200
38	D614G Spike Mutation Increases SARS CoV-2 Susceptibility to Neutralization. <i>Cell Host and Microbe</i> , 2021 , 29, 23-31.e4	23.4	198
37	D614G Mutation Alters SARS-CoV-2 Spike Conformation and Enhances Protease Cleavage at the S1/S2 Junction. <i>Cell Reports</i> , 2021 , 34, 108630	10.6	123
36	Effect of natural mutations of SARS-CoV-2 on spike structure, conformation, and antigenicity. <i>Science</i> , 2021 , 373,	33.3	121
35	In vitro and in vivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021 , 184, 4203-4219.e32	56.2	89
34	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021 , 594, 553-559	30.4	85
33	X-ray diffraction evidence for myosin-troponin connections and tropomyosin movement during stretch activation of insect flight muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 120-5	11.5	69
32	Targeted selection of HIV-specific antibody mutations by engineering B cell maturation. <i>Science</i> , 2019 , 366,	33.3	60
31	Structure of myosin filaments from relaxed flight muscle by cryo-EM at 6 Å resolution. <i>Science Advances</i> , 2016 , 2, e1600058	14.3	55
30	Cold sensitivity of the SARS-CoV-2 spike ectodomain. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 128-131	17.6	34
29	Neutralization-guided design of HIV-1 envelope trimers with high affinity for the unmutated common ancestor of CH235 lineage CD4bs broadly neutralizing antibodies. <i>PLoS Pathogens</i> , 2019 , 15, e1008026	7.6	33
28	The Prohormone VGF Regulates Cell Function via Insulin Secretory Granule Biogenesis. <i>Cell Reports</i> , 2017 , 20, 2480-2489	10.6	28
27	The functions of SARS-CoV-2 neutralizing and infection-enhancing antibodies in vitro and in mice and nonhuman primates 2021 ,		27
26	Glycans on the SARS-CoV-2 Spike Control the Receptor Binding Domain Conformation 2020 ,		25
25	Difficult-to-neutralize global HIV-1 isolates are neutralized by antibodies targeting open envelope conformations. <i>Nature Communications</i> , 2019 , 10, 2898	17.4	24
24	A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. <i>Science Translational Medicine</i> , 2021 , eabj7125	17.5	24
23	Effect of natural mutations of SARS-CoV-2 on spike structure, conformation and antigenicity 2021 ,		24

22	A broadly neutralizing antibody protects against SARS-CoV, pre-emergent bat CoVs, and SARS-CoV-2 variants in mice 2021 ,		24
21	A glycan cluster on the SARS-CoV-2 spike ectodomain is recognized by Fab-dimerized glycan-reactive antibodies 2020 ,		18
20	Electron microscopy and x-ray diffraction evidence for two Z-band structural states. <i>Biophysical Journal</i> , 2011 , 101, 709-17	2.9	12
19	Insights into Actin-Myosin Interactions within Muscle from 3D Electron Microscopy. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
18	The Z-band lattice in skeletal muscle in rigor. <i>Journal of Structural Biology</i> , 1989 , 102, 59-65		10
17	Structural changes in isometrically contracting insect flight muscle trapped following a mechanical perturbation. <i>PLoS ONE</i> , 2012 , 7, e39422	3.7	10
16	Coupling between myosin head conformation and the thick filament backbone structure. <i>Journal of Structural Biology</i> , 2017 , 200, 334-342	3.4	6
15	Myosin II sequences for <i>Lethocerus indicus</i> . <i>Journal of Muscle Research and Cell Motility</i> , 2017 , 38, 193-200	5.5	6
14	Stretch activation properties of <i>Drosophila</i> and <i>Lethocerus</i> indirect flight muscle suggest similar calcium-dependent mechanisms. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 313, C621-C631	5.4	5
13	Functional Homology for Antibody-Dependent Phagocytosis Across Humans and Rhesus Macaques. <i>Frontiers in Immunology</i> , 2021 , 12, 678511	8.4	4
12	SARS-CoV-2 vaccination induces neutralizing antibodies against pandemic and pre-emergent SARS-related coronaviruses in monkeys 2021 ,		4
11	mRNA-encoded HIV-1 Env trimer ferritin nanoparticles induce monoclonal antibodies that neutralize heterologous HIV-1 isolates in mice.. <i>Cell Reports</i> , 2022 , 38, 110514	10.6	2
10	Structural diversity of the SARS-CoV-2 Omicron spike. 2022 ,		1
9	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. <i>Cell Reports</i> , 2021 , 37, 109922	10.6	1
8	The myosin II coiled-coil domain atomic structure in its native environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
7	Ability of nucleoside-modified mRNA to encode HIV-1 envelope trimer nanoparticles 2021 ,		1
6	Mouse and human antibodies bind HLA-E-leader peptide complexes and enhance NK cell cytotoxicity.. <i>Communications Biology</i> , 2022 , 5, 271	6.7	1
5	Polyclonal Broadly Neutralizing Antibody Activity Characterized by CD4 Binding Site and V3-Glycan Antibodies in a Subset of HIV-1 Virus Controllers.. <i>Frontiers in Immunology</i> , 2021 , 12, 670561	8.4	0

- 4 Suspending samples over carbon holey films increases heterogeneity of molecular orientations in negative stain electron microscopy. *MethodsX*, **2019**, 6, 582-586 1.9
- 3 How Does HIV Env Structure Informs Vaccine Design?. *Microscopy and Microanalysis*, **2020**, 26, 574-575 0.5
- 2 The basketweave form of the Z-band is expanded relative to the small-square form. *Journal of Muscle Research and Cell Motility*, **2011**, 31, 307-8 3.5
- 1 The Structure of the Relaxed Thick Filaments from *Lethocerus* Flight Muscle. *Microscopy and Microanalysis*, **2016**, 22, 1106-1107 0.5