

Robert J Perz-Edwards

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,875
citations

471477

17
h-index

454934

30
g-index

45
all docs

45
docs citations

45
times ranked

5037
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the SARS-CoV-2 spike glycoprotein conformation. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 925-933.	8.2	376
2	Effect of natural mutations of SARS-CoV-2 on spike structure, conformation, and antigenicity. <i>Science</i> , 2021, 373, .	12.6	318
3	D614G Spike Mutation Increases SARS CoV-2 Susceptibility to Neutralization. <i>Cell Host and Microbe</i> , 2021, 29, 23-31.e4.	11.0	308
4	D614G Mutation Alters SARS-CoV-2 Spike Conformation and Enhances Protease Cleavage at the S1/S2 Junction. <i>Cell Reports</i> , 2021, 34, 108630.	6.4	263
5	InÂvitra and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021, 184, 4203-4219.e32.	28.9	228
6	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021, 594, 553-559.	27.8	199
7	Structural diversity of the SARS-CoV-2 Omicron spike. <i>Molecular Cell</i> , 2022, 82, 2050-2068.e6.	9.7	125
8	Targeted selection of HIV-specific antibody mutations by engineering B cell maturation. <i>Science</i> , 2019, 366, .	12.6	118
9	A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. <i>Science Translational Medicine</i> , 2022, 14, eabj7125.	12.4	93
10	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, 120-125.	7.1	87
11	Structure of myosin filaments from relaxed <i>Lethocerus</i> flight muscle by cryo-EM at 6 Å... resolution. <i>Science Advances</i> , 2016, 2, e1600058.	10.3	79
12	Cryo-EM structures of SARS-CoV-2 Omicron BA.2 spike. <i>Cell Reports</i> , 2022, 39, 111009.	6.4	74
13	Cold sensitivity of the SARS-CoV-2 spike ectodomain. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 128-131.	8.2	65
14	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.	4.7	56
15	The Prohormone VGF Regulates $\hat{2}$ Cell Function via Insulin Secretory Granule Biogenesis. <i>Cell Reports</i> , 2017, 20, 2480-2489.	6.4	49
16	Difficult-to-neutralize global HIV-1 isolates are neutralized by antibodies targeting open envelope conformations. <i>Nature Communications</i> , 2019, 10, 2898.	12.8	35
17	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.	6.4	23
18	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, .	7.1	19

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19	Electron Microscopy and X-Ray Diffraction Evidence for Two Z-Band Structural States. <i>Biophysical Journal</i> , 2011, 101, 709-717.	0.5	14
20	Insights into Actin-Myosin Interactions within Muscle from 3D Electron Microscopy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1703.	4.1	14
21	Mouse and human antibodies bind HLA-E-leader peptide complexes and enhance NK cell cytotoxicity. <i>Communications Biology</i> , 2022, 5, 271.	4.4	14
22	Coupling between myosin head conformation and the thick filament backbone structure. <i>Journal of Structural Biology</i> , 2017, 200, 334-342.	2.8	12
23	Structural Changes in Isometrically Contracting Insect Flight Muscle Trapped following a Mechanical Perturbation. <i>PLoS ONE</i> , 2012, 7, e39422.	2.5	12
24	The Z-band lattice in skeletal muscle in rigor. <i>Journal of Structural Biology</i> , 1989, 102, 59-65.	0.8	11
25	Functional Homology for Antibody-Dependent Phagocytosis Across Humans and Rhesus Macaques. <i>Frontiers in Immunology</i> , 2021, 12, 678511.	4.8	11
26	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.	4.6	9
27	Myosin II sequences for <i>Lethocerus indicus</i> . <i>Journal of Muscle Research and Cell Motility</i> , 2017, 38, 193-200.	2.0	6
28	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. <i>Cell Reports</i> , 2021, 37, 109922.	6.4	5
29	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.	4.8	3
30	The basketweave form of the Z-band is expanded relative to the small-square form. <i>Journal of Muscle Research and Cell Motility</i> , 2011, 31, 307-308.	2.0	0
31	The Structure of the Relaxed Thick Filaments from <i>Lethocerus</i> Flight Muscle. <i>Microscopy and Microanalysis</i> , 2016, 22, 1106-1107.	0.4	0
32	Suspending samples over carbon holey films increases heterogeneity of molecular orientations in negative stain electron microscopy. <i>MethodsX</i> , 2019, 6, 582-586.	1.6	0
33	How Does HIV Env Structure Informs Vaccine Design?. <i>Microscopy and Microanalysis</i> , 2020, 26, 574-575.	0.4	0