

# Isabelle Rouiller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3012328/publications.pdf>

Version: 2024-02-01

52  
papers

3,980  
citations

218677

26  
h-index

197818

49  
g-index

54  
all docs

54  
docs citations

54  
times ranked

6226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstituted NALP1 Inflammasome Reveals Two-Step Mechanism of Caspase-1 Activation. <i>Molecular Cell</i> , 2007, 25, 713-724.	9.7	610
2	Mutant huntingtin binds the mitochondrial fission GTPase dynamin-related protein-1 and increases its enzymatic activity. <i>Nature Medicine</i> , 2011, 17, 377-382.	30.7	467
3	The structural basis of actin filament branching by the Arp2/3 complex. <i>Journal of Cell Biology</i> , 2008, 180, 887-895.	5.2	270
4	Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy. <i>ELife</i> , 2018, 7, .	6.0	261
5	“Breathing” Vesicles. <i>Journal of the American Chemical Society</i> , 2009, 131, 10557-10566.	13.7	217
6	Conformational changes of the multifunction p97 AAA ATPase during its ATPase cycle. <i>Nature Structural Biology</i> , 2002, 9, 950-957.	9.7	189
7	Mechanistic Differences in Actin Bundling Activity of Two Mammalian Formins, FRL1 and mDia2. <i>Journal of Biological Chemistry</i> , 2006, 281, 14383-14392.	3.4	152
8	Metal-“nucleic acid cages. <i>Nature Chemistry</i> , 2009, 1, 390-396.	13.6	151
9	A Major Conformational Change in p97 AAA ATPase upon ATP Binding. <i>Molecular Cell</i> , 2000, 6, 1485-1490.	9.7	146
10	The Peptidisc, a simple method for stabilizing membrane proteins in detergent-free solution. <i>ELife</i> , 2018, 7, .	6.0	119
11	African Swine Fever Virus Is Wrapped by the Endoplasmic Reticulum. <i>Journal of Virology</i> , 1998, 72, 2373-2387.	3.4	111
12	Hereditary Inclusion Body Myopathy-Linked p97/VCP Mutations in the NH <sub>2</sub> Domain and the D1 Ring Modulate p97/VCP ATPase Activity and D2 Ring Conformation. <i>Molecular and Cellular Biology</i> , 2009, 29, 4484-4494.	2.3	102
13	An Asymmetric Opening of HIV-1 Envelope Mediates Antibody-Dependent Cellular Cytotoxicity. <i>Cell Host and Microbe</i> , 2019, 25, 578-587.e5.	11.0	93
14	Structure-Function Profile of MmpL3, the Essential Mycolic Acid Transporter from <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 702-713.	3.8	86
15	Mechanism of Filament Nucleation and Branch Stability Revealed by the Structure of the Arp2/3 Complex at Actin Branch Junctions. <i>PLoS Biology</i> , 2005, 3, e383.	5.6	84
16	<i>Desulfovibrio magneticus</i> RS-1 contains an iron- and phosphorus-rich organelle distinct from its bullet-shaped magnetosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12263-12268.	7.1	74
17	Effects of Arp2 and Arp3 nucleotide-binding pocket mutations on Arp2/3 complex function. <i>Journal of Cell Biology</i> , 2005, 168, 315-328.	5.2	73
18	Prepore to pore transition of a cholesterol-dependent cytolysin visualized by electron microscopy. <i>Journal of Structural Biology</i> , 2005, 150, 100-108.	2.8	72

#	ARTICLE	IF	CITATIONS
19	Gigantism in unique biogenic magnetite at the Paleocene–Eocene Thermal Maximum. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17648-17653.	7.1	69
20	Three-dimensional reconstructions of Arp2/3 complex with bound nucleation promoting factors. EMBO Journal, 2012, 31, 236-247.	7.8	67
21	Supported Bilayers Formed from Different Phospholipids on Spherical Silica Substrates. Langmuir, 2009, 25, 5455-5458.	3.5	55
22	Molecular mechanism of DRP1 assembly studied in vitro by cryo-electron microscopy. PLoS ONE, 2017, 12, e0179397.	2.5	44
23	The Subcellular Distribution of Multigene Family 110 Proteins of African Swine Fever Virus Is Determined by Differences in C-Terminal KDEL Endoplasmic Reticulum Retention Motifs. Journal of Virology, 2004, 78, 3710-3721.	3.4	41
24	Fibril formation pH controls intrafibrillar collagen biomineralization in vitro and in vivo. Biomaterials, 2015, 37, 252-259.	11.4	40
25	Unraveling electronic energy transfer in single conjugated polyelectrolytes encapsulated in lipid vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17480-17485.	7.1	38
26	Morphological characterization of a plant-made virus-like particle vaccine bearing influenza virus hemagglutinins by electron microscopy. Vaccine, 2018, 36, 2147-2154.	3.8	37
27	The maltose ABC transporter: Action of membrane lipids on the transporter stability, coupling and ATPase activity. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1723-1730.	2.6	26
28	NMMD: Efficient Cryo-EM Flexible Fitting Based on Simultaneous Normal Mode and Molecular Dynamics atomic displacements. Journal of Molecular Biology, 2022, 434, 167483.	4.2	26
29	Plant-derived virus-like particle vaccines drive cross-presentation of influenza A hemagglutinin peptides by human monocyte-derived macrophages. Npj Vaccines, 2019, 4, 17.	6.0	23
30	Model-based particle picking for cryo-electron microscopy. Journal of Structural Biology, 2004, 145, 157-167.	2.8	19
31	Coordinated Rearrangements between Cytoplasmic and Periplasmic Domains of the Membrane Protein Complex ExbB-ExbD of Escherichia coli. Structure, 2014, 22, 791-797.	3.3	19
32	Quaternary structure of WzzB and WzzE polysaccharide copolymerases. Protein Science, 2015, 24, 58-69.	7.6	19
33	Lipid Bilayer Membrane-Triggered Presynaptic Vesicle Assembly. ACS Chemical Neuroscience, 2010, 1, 86-94.	3.5	17
34	Growth-Arrest-Specific Protein 2 Inhibits Cell Division in Xenopus Embryos. PLoS ONE, 2011, 6, e24698.	2.5	17
35	Role of capsid sequence and immature nucleocapsid proteins p9 and p15 in Human Immunodeficiency Virus type 1 genomic RNA dimerization. Virology, 2009, 385, 233-244.	2.4	16
36	Structure of anthrax lethal toxin prepore complex suggests a pathway for efficient cell entry. Journal of General Physiology, 2016, 148, 313-324.	1.9	16

#	ARTICLE	IF	CITATIONS
37	Regional differences in the expression of K <sup>+</sup> Cl <sup>-</sup> 2 cotransporter in the developing rat cortex. <i>Brain Structure and Function</i> , 2014, 219, 527-538.	2.3	14
38	Negative Stain Single-particle EM of the Maltose Transporter in Nanodiscs Reveals Asymmetric Closure of MalK2 and Catalytic Roles of ATP, MalE, and Maltose. <i>Journal of Biological Chemistry</i> , 2017, 292, 5457-5464.	3.4	14
39	A Stretch of Polybasic Residues Mediates Cdc42 GTPase-activating Protein (CdGAP) Binding to Phosphatidylinositol 3,4,5-Trisphosphate and Regulates Its GAP Activity. <i>Journal of Biological Chemistry</i> , 2012, 287, 19610-19621.	3.4	13
40	Automated Image Acquisition for Single-Particle Reconstruction Using p97 as the Biological Sample. <i>Journal of Structural Biology</i> , 2001, 133, 102-107.	2.8	12
41	Protein-Protein Interactions in the Î <sup>2</sup> -Oxidation Part of the Phenylacetate Utilization Pathway. <i>Journal of Biological Chemistry</i> , 2012, 287, 37986-37996.	3.4	12
42	A "Drug Sweeping" State of the TriABC Triclosan Efflux Pump from <i>Pseudomonas aeruginosa</i> . <i>Structure</i> , 2021, 29, 261-274.e6.	3.3	11
43	Cryo-EM of the pathogenic VCP variant R155P reveals long-range conformational changes in the D2 ATPase ring. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 636-641.	2.1	7
44	Label-Free Visualization of Ultrastructural Features of Artificial Synapses via Cryo-EM. <i>ACS Chemical Neuroscience</i> , 2011, 2, 700-704.	3.5	5
45	Full-length structural model of RET3 and SEC21 in COPI: identification of binding sites on the appendage for accessory protein recruitment motifs. <i>Journal of Molecular Modeling</i> , 2012, 18, 3199-3212.	1.8	5
46	Family of phenylacetyl-CoA monooxygenases differs in subunit organization from other monooxygenases. <i>Journal of Structural Biology</i> , 2013, 184, 147-154.	2.8	5
47	Molecular assembly of lethal factor enzyme and pre-pore heptameric protective antigen in early stage of translocation. <i>Journal of Molecular Modeling</i> , 2016, 22, 7.	1.8	4
48	The AAA+ ATPase p97 as a novel parasite and tuberculosis drug target. <i>Trends in Parasitology</i> , 2022, 38, 572-590.	3.3	4
49	Broad and ultra-potent cross-clade neutralization of HIV-1 by a vaccine-induced CD4 binding site bovine antibody. <i>Cell Reports Medicine</i> , 2022, 3, 100635.	6.5	3
50	Unravelling Electronic Energy Transfer in Single Conjugated Polyelectrolytes Encapsulated in Lipid Vesicles. <i>Biophysical Journal</i> , 2011, 100, 138a.	0.5	0
51	Study of Membrane Proteins by Single Particles Electron Microscopy Using Detergent, Liposomes and Nanodiscs. <i>Microscopy and Microanalysis</i> , 2014, 20, 1212-1213.	0.4	0
52	In Vitro Reconstitution of the NALP1 Inflammasome Reveals Requirements for Caspase Activation.. <i>Blood</i> , 2006, 108, 3658-3658.	1.4	0