Roman S Polishchuk

List of Publications by Year
in descending order

117	12,514	30070 54	25787 108
papers	citations	h-index	g-index

122	122	122	16801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Connecting copper and cancer: from transition metal signalling to metalloplasia. Nature Reviews Cancer, 2022, 22, 102-113.	28.4	519
2	TFEB Regulates ATP7B Expression to Promote Platinum Chemoresistance in Human Ovarian Cancer Cells. Cells, 2022, 11, 219.	4.1	10
3	The role of NSP6 in the biogenesis of the SARS-CoV-2 replication organelle. Nature, 2022, 606, 761-768.	27.8	87
4	Down Syndrome Fetal Fibroblasts Display Alterations of Endosomal Trafficking Possibly due to SYNJ1 Overexpression. Frontiers in Genetics, 2022, 13, .	2.3	1
5	Golgi-Dependent Copper Homeostasis Sustains Synaptic Development and Mitochondrial Content. Journal of Neuroscience, 2021, 41, 215-233.	3.6	17
6	Myopalladin knockout mice develop cardiac dilation and show a maladaptive response to mechanical pressure overload. ELife, 2021, 10, .	6.0	12
7	Correction of oxidative stress enhances enzyme replacement therapy in Pompe disease. EMBO Molecular Medicine, 2021, 13, e14434.	6.9	13
8	Mitochondrial Dynamics of Proximal Tubular Epithelial Cells in Nephropathic Cystinosis. International Journal of Molecular Sciences, 2020, 21, 192.	4.1	19
9	Pharmacoproteomics pinpoints HSP70 interaction for correction of the most frequent Wilson disease-causing mutant of ATP7B. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32453-32463.	7.1	9
10	Synthetic Lethality Screening Identifies FDA-Approved Drugs that Overcome ATP7B-Mediated Tolerance of Tumor Cells to Cisplatin. Cancers, 2020, 12, 608.	3.7	25
11	From and to the Golgi â€“ defining the Wilson disease protein road map. FEBS Letters, 2019, 593, 2341-2350.	2.8	16
12	PERK-Mediated Unfolded Protein Response Activation and Oxidative Stress in PARK20 Fibroblasts. Frontiers in Neuroscience, 2019, 13, 673.	2.8	38
13	Skin fibroblasts of patients with geleophysic dysplasia due to FBN1 mutations have lysosomal inclusions and losartan improves their microfibril deposition defect. Molecular Genetics & Genomic Medicine, 2019, 7, e844.	1.2	8
14	Activity and Trafficking of Copper-Transporting ATPases in Tumor Development and Defense against Platinum-Based Drugs. Cells, 2019, 8, 1080.	4.1	58
15	A High-Calorie Diet Aggravates Mitochondrial Dysfunction and Triggers Severe Liver Damage in Wilson Disease Rats. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 571-596.	4.5	50
16	Molecular determinants of ERâ€“Golgi contacts identified through a new FRETâ€“FLIM system. Journal of Cell Biology, 2019, 218, 1055-1065.	5.2	94
17	Silver Ions as a Tool for Understanding Different Aspects of Copper Metabolism. Nutrients, 2019, 11, 1364.	4.1	38
18	Intein-mediated protein trans-splicing expands adeno-associated virus transfer capacity in the retina. Science Translational Medicine, 2019, 11, .	12.4	109

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19	Identification of CDC42 Effectors Operating in FGD1-Dependent Trafficking at the Golgi. Frontiers in Cell and Developmental Biology, 2019, 7, 7.	3.7	8
20	Activation of Autophagy, Observed in Liver Tissues From Patients With Wilson Disease and From ATP7B-Deficient Animals, Protects Hepatocytes From Copper-Induced Apoptosis. Gastroenterology, 2019, 156, 1173-1189.e5.	1.3	150
21	Pre-embedding labeling for subcellular detection of molecules with electron microscopy. Tissue and Cell, 2019, 57, 103-110.	2.2	22
22	Dâ€Aspartate treatment attenuates myelin damage and stimulates myelin repair. EMBO Molecular Medicine, 2019, 11, .	6.9	44
23	A novel murine model for arrhythmogenic cardiomyopathy points to a pathogenic role of Wnt signalling and miRNA dysregulation. Cardiovascular Research, 2019, 115, 739-751.	3.8	40
24	Cellular Function of ATP7B (Wilson ATPase). , 2019, , 45-56.		2
25	Characterization of the most frequent ATP7B mutation causing Wilson disease in hepatocytes from patient induced pluripotent stem cells. Scientific Reports, 2018, 8, 6247.	3.3	35
26	Helical organization of microtubules occurs in a minority of tunneling membrane nanotubes in normal and cancer urothelial cells. Scientific Reports, 2018, 8, 17133.	3.3	21
27	Metformin restores the mitochondrial network and reverses mitochondrial dysfunction in Down syndrome cells. Human Molecular Genetics, 2017, 26, ddx016.	2.9	70
28	Abnormal cell-clearance and accumulation of autophagic vesicles in lymphocytes from patients affected with Ataxia-Teleangiectasia. Clinical Immunology, 2017, 175, 16-25.	3.2	19
29	Emerging role of Cdc42-specific guanine nucleotide exchange factors as regulators of membrane trafficking in health and disease. Tissue and Cell, 2017, 49, 157-162.	2.2	11
30	CREB3L1-mediated functional and structural adaptation of the secretory pathway in hormone-stimulated thyroid cells. Journal of Cell Science, 2017, 130, 4155-4167.	2.0	26
31	Uroplakin traffic through the Golgi apparatus induces its fragmentation: new insights from novel in vitro models. Scientific Reports, 2017, 7, 12842.	3.3	19
32	ER/Golgi trafficking is facilitated by unbranched actin filaments containing Tpm4.2. Cytoskeleton, 2017, 74, 379-389.	2.0	11
33	Hypothyroidism induced by loss of the manganese efflux transporter SLC30A10 may be explained by reduced thyroxine production. Journal of Biological Chemistry, 2017, 292, 16605-16615.	3.4	46
34	AAV-mediated transcription factor EB (TFEB) gene delivery ameliorates muscle pathology and function in the murine model of Pompe Disease. Scientific Reports, 2017, 7, 15089.	3.3	40
35	Connexin-Mediated Signaling in Nonsensory Cells Is Crucial for the Development of Sensory Inner Hair Cells in the Mouse Cochlea. Journal of Neuroscience, 2017, 37, 258-268.	3.6	61
36	Cystinosin-LKG rescues cystine accumulation and decreases apoptosis rate in cystinotic proximal tubular epithelial cells. Pediatric Research, 2017, 81, 113-119.	2.3	9

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37	A systems biology approach reveals new endoplasmic reticulum-associated targets for the correction of the ATP7B mutant causing Wilson disease. Metallomics, 2016, 8, 920-930.	2.4	19
38	Golgi membrane fission requires the CtBP1-S/BARS-induced activation of lysophosphatidic acid acyltransferase Î´. Nature Communications, 2016, 7, 12148.	12.8	63
39	The emerging role of lysosomes in copper homeostasis. Metallomics, 2016, 8, 853-862.	2.4	64
40	The Menkes and Wilson disease genes counteract in copper toxicosis in Labrador retrievers: a new canine model for copper-metabolism disorders. DMM Disease Models and Mechanisms, 2016, 9, 25-38.	2.4	60
41	Activation of the transcription factor EB rescues lysosomal abnormalities in cystinotic kidney cells. Kidney International, 2016, 89, 862-873.	5.2	85
42	Identification of p38 MAPK and JNK as new targets for correction of Wilson diseaseâ€causing ATP7B mutants. Hepatology, 2016, 63, 1842-1859.	7.3	42
43	Akap1 Deficiency Promotes Mitochondrial Aberrations and Exacerbates Cardiac Injury Following Permanent Coronary Ligation via Enhanced Mitophagy and Apoptosis. PLoS ONE, 2016, 11, e0154076.	2.5	39
44	Improved dual AAV vectors with reduced expression of truncated proteins are safe and effective in the retina of a mouse model of Stargardt disease. Human Molecular Genetics, 2015, 24, 6811-6825.	2.9	73
45	FGF signalling regulates bone growth through autophagy. Nature, 2015, 528, 272-275.	27.8	170
46	Toxicological Assessment Via Gene Network Analysis. Methods in Pharmacology and Toxicology, 2015, , 161-180.	0.2	0
47	Effective delivery of large genes to the retina by dual AAV vectors. EMBO Molecular Medicine, 2014, 6, 194-211.	6.9	202
48	Cytosolic phospholipase A2Îµ drives recycling in the clathrin-independent endocytic route. Journal of Cell Science, 2014, 127, 977-93.	2.0	26
49	Wilson Disease Protein ATP7B Utilizes Lysosomal Exocytosis to Maintain Copper Homeostasis. Developmental Cell, 2014, 29, 686-700.	7.0	203
50	Transport of soluble proteins through the Golgi occurs by diffusion via continuities across cisternae. ELife, 2014, 3, .	6.0	74
51	Golgi in copper homeostasis: a view from the membrane trafficking field. Histochemistry and Cell Biology, 2013, 140, 285-295.	1.7	97
52	NCX3 regulates mitochondrial calcium handling through AKAP121-anchored signaling complex and prevents hypoxia-induced cell death. Journal of Cell Science, 2013, 126, 5566-77.	2.0	64
53	Analysis of Golgi Complex Function Using Correlative Light-Electron Microscopy. Methods in Cell Biology, 2013, 118, 243-258.	1.1	11
54	Transcription factor EB (TFEB) is a new therapeutic target for Pompe disease. EMBO Molecular Medicine, 2013, 5, 691-706.	6.9	273

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55	Pharmacological readâ€through of nonsense ARSB mutations as a potential therapeutic approach for mucopolysaccharidosis VI. Journal of Inherited Metabolic Disease, 2013, 36, 363-371.	3.6	36
56	Defective autophagy in spastizin mutated patients with hereditary spastic paraparesis type 15. Brain, 2013, 136, 3119-3139.	7.6	74
57	The cytosolic chaperone Î±-Crystallin B rescues appropriate folding and compartmentalization of misfolded multispan transmembrane proteins. Journal of Cell Science, 2013, 126, 4160-72.	2.0	31
58	Gene transfer of master autophagy regulator TFEB results in clearance of toxic protein and correction of hepatic disease in alphaâ€1â€antiâ€trypsin deficiency. EMBO Molecular Medicine, 2013, 5, 397-412.	6.9	134
59	Myosin7a Deficiency Results in Reduced Retinal Activity Which Is Improved by Gene Therapy. PLoS ONE, 2013, 8, e72027.	2.5	29
60	Changes in Muscle Cell Metabolism and Mechanotransduction Are Associated with Myopathic Phenotype in a Mouse Model of Collagen VI Deficiency. PLoS ONE, 2013, 8, e56716.	2.5	23
61	Molecular Events Initiating Exit of a Copper-transporting ATPase ATP7B from the Trans-Golgi Network. Journal of Biological Chemistry, 2012, 287, 36041-36050.	3.4	53
62	Sphingomyelin organization is required for vesicle biogenesis at the Golgi complex. EMBO Journal, 2012, 31, 4535-4546.	7.8	74
63	Correlative Lightâ€“Electron Microscopy as a Tool to Study In Vivo Dynamics and Ultrastructure of Intracellular Structures. Methods in Molecular Biology, 2012, 931, 413-422.	0.9	18
64	A 14-3-3Î³ dimer-based scaffold bridges CtBP1-S/BARS to PI(4)KIIIÎ² to regulate post-Golgi carrier formation. Nature Cell Biology, 2012, 14, 343-354.	10.3	79
65	A new class of carriers that transport selective cargo from the trans Golgi network to the cell surface. EMBO Journal, 2012, 31, 3976-3990.	7.8	88
66	Visualizing Live Dynamics and Ultrastructure of Intracellular Organelles with Preembedding Correlative Light-Electron Microscopy. Methods in Cell Biology, 2012, 111, 21-35.	1.1	21
67	The E3-Ubiquitin Ligase TRIM50 Interacts with HDAC6 and p62, and Promotes the Sequestration and Clearance of Ubiquitinated Proteins into the Aggresome. PLoS ONE, 2012, 7, e40440.	2.5	76
68	COPI acts in both vesicular and tubular transport. Nature Cell Biology, 2011, 13, 996-1003.	10.3	108
69	Transcriptional Activation of Lysosomal Exocytosis Promotes Cellular Clearance. Developmental Cell, 2011, 21, 421-430.	7.0	594
70	OCRL controls trafficking through early endosomes via PtdIns4,5P₂-dependent regulation of endosomal actin. EMBO Journal, 2011, 30, 4970-4985.	7.8	158
71	Lysosomal fusion and SNARE function are impaired by cholesterol accumulation in lysosomal storage disorders. EMBO Journal, 2010, 29, 3607-3620.	7.8	192
72	Rab6 and myosin II at the cutting edge of membrane fission. Nature Cell Biology, 2010, 12, 635-638.	10.3	35

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73	Uromodulin is expressed in renal primary cilia and UMOD mutations result in decreased ciliary uromodulin expression. Human Molecular Genetics, 2010, 19, 1985-1997.	2.9	52
74	Golgi-modifying properties of macfarlandin E and the synthesis and evaluation of its 2,7-dioxabicyclo[3.2.1]octan-3-one core. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6158-6163.	7.1	40
75	Correction of CNS defects in the MPSII mouse model via systemic enzyme replacement therapy. Human Molecular Genetics, 2010, 19, 4871-4885.	2.9	43
76	Actin remodeling by ADF/cofilin is required for cargo sorting at the trans-Golgi network. Journal of Cell Biology, 2009, 187, 1055-1069.	5.2	98
77	Group IV Phospholipase A2Î± Controls the Formation of Inter-Cisternal Continuities Involved in Intra-Golgi Transport. PLoS Biology, 2009, 7, e1000194.	5.6	81
78	Faciogenital Dysplasia Protein Fgd1 Regulates Invadopodia Biogenesis and Extracellular Matrix Degradation and Is Up-regulated in Prostate and Breast Cancer. Cancer Research, 2009, 69, 747-752.	0.9	73
79	Mitochondria Are Linked to Calcium Stores in Striated Muscle by Developmentally Regulated Tethering Structures. Molecular Biology of the Cell, 2009, 20, 1058-1067.	2.1	240
80	Faciogenital Dysplasia Protein (FGD1) Regulates Export of Cargo Proteins from the Golgi Complex via Cdc42 Activation. Molecular Biology of the Cell, 2009, 20, 2413-2427.	2.1	52
81	Shaping tubular carriers for intracellular membrane transport. FEBS Letters, 2009, 583, 3847-3856.	2.8	22
82	Correlation of 4Pi and Electron Microscopy to Study Transport Through Single Golgi Stacks in Living Cells with Super Resolution. Traffic, 2009, 10, 379-391.	2.7	43
83	A Gene Network Regulating Lysosomal Biogenesis and Function. Science, 2009, 325, 473-477.	12.6	1,958
84	Morphogenesis of post-Golgi transport carriers. Histochemistry and Cell Biology, 2008, 129, 153-161.	1.7	57
85	A traffic-activated Golgi-based signalling circuit coordinates the secretory pathway. Nature Cell Biology, 2008, 10, 912-922.	10.3	175
86	Transport through the Golgi Apparatus by Rapid Partitioning within a Two-Phase Membrane System. Cell, 2008, 133, 1055-1067.	28.9	256
87	Chapter 5 Combined Video Fluorescence and 3D Electron Microscopy. Methods in Cell Biology, 2008, 88, 83-95.	1.1	16
88	The Role of GRASP55 in Golgi Fragmentation and Entry of Cells into Mitosis. Molecular Biology of the Cell, 2008, 19, 2579-2587.	2.1	78
89	Protein transport from the trans-Golgi network to endosomes. , 2008, , 388-401.		1
90	Golgi-to-PM transport. , 2008, , 375-387.		0

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91	Dimeric PKD regulates membrane fission to form transport carriers at the TGN. Journal of Cell Biology, 2007, 179, 1123-1131.	5.2	121
92	Polycystin-1 Induces Cell Migration by Regulating Phosphatidylinositol 3-kinase-dependent Cytoskeletal Rearrangements and GSK3Î²-dependent Cellâ€“Cell Mechanical Adhesion. Molecular Biology of the Cell, 2007, 18, 4050-4061.	2.1	96
93	Glycosphingolipid synthesis requires FAPP2 transfer of glucosylceramide. Nature, 2007, 449, 62-67.	27.8	359
94	Ultrastructure of Long-Range Transport Carriers Moving from the trans Golgi Network to Peripheral Endosomes. Traffic, 2006, 7, 1092-1103.	2.7	62
95	T-Cell Antigen Receptor-Induced Signaling Complexes: Internalization Via a Cholesterol-Dependent Endocytic Pathway. Traffic, 2006, 7, 1143-1162.	2.7	74
96	Defective Intracellular Trafficking of Uromodulin Mutant Isoforms. Traffic, 2006, 7, 1567-1579.	2.7	93
97	Intra-Golgi transport: A way to a new paradigm?. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1744, 340-350.	4.1	40
98	The Golgi-associated Protein GRASP65 Regulates Spindle Dynamics and Is Essential for Cell Division. Molecular Biology of the Cell, 2005, 16, 3211-3222.	2.1	126
99	Visualizing Intracellular Events In Vivo by Combined Video Fluorescence and 3â€Ð Electron Microscopy. Methods in Enzymology, 2005, 404, 43-57.	1.0	12
100	Golgi Enzymes Are Enriched in Perforated Zones of Golgi Cisternae but Are Depleted in COPI Vesicles. Molecular Biology of the Cell, 2004, 15, 4710-4724.	2.1	90
101	Delivery of raft-associated, GPI-anchored proteins to the apical surface of polarized MDCK cells by a transcytotic pathway. Nature Cell Biology, 2004, 6, 297-307.	10.3	192
102	Secretory traffic triggers the formation of tubular continuities across Golgi sub-compartments. Nature Cell Biology, 2004, 6, 1071-1081.	10.3	283
103	Dicumarol, an inhibitor of ADP-ribosylation of CtBP3/BARS, fragments Golgi non-compact tubular zones and inhibits intra-Golgi transport. European Journal of Cell Biology, 2004, 83, 263-279.	3.6	43
104	A role for Arf1 in mitotic Golgi disassembly, chromosome segregation, and cytokinesis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13314-13319.	7.1	110
105	Mechanism of Constitutive Export from the Golgi: Bulk Flow via the Formation, Protrusion, and En Bloc Cleavage of large trans-Golgi Network Tubular Domains. Molecular Biology of the Cell, 2003, 14, 4470-4485.	2.1	177
106	A tubular EHD1-containing compartment involved in the recycling of major histocompatibility complex class I molecules to the plasma membrane. EMBO Journal, 2002, 21, 2557-2567.	7.8	265
107	Correlative Video Light/Electron Microscopy. Current Protocols in Cell Biology, 2001, 11, Unit 4.8.	2.3	13
108	Maintenance of Golgi structure and function depends on the integrity of ER export. Journal of Cell Biology, 2001, 155, 557-570.	5.2	398

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109	Rapid Cycling of Lipid Raft Markers between the Cell Surface and Golgi Complex. Journal of Cell Biology, 2001, 153, 529-542.	5.2	496
110	Small cargo proteins and large aggregates can traverse the Golgi by a common mechanism without leaving the lumen of cisternae. Journal of Cell Biology, 2001, 155, 1225-1238.	5.2	185
111	Visualizing membrane traffic in vivo by combined video fluorescence and 3D electron microscopy. Trends in Cell Biology, 2000, 10, 349-353.	7.9	60
112	Correlative Light-Electron Microscopy Reveals the Tubular-Saccular Ultrastructure of Carriers Operating between Golgi Apparatus and Plasma Membrane. Journal of Cell Biology, 2000, 148, 45-58.	5.2	304
113	Coalescence of Golgi fragments in microtubule-deprived living cells. European Journal of Cell Biology, 1999, 78, 170-185.	3.6	43
114	Localization and age-dependent expression of the inward rectifier K+ channel subunit Kir 5.1 in a mammalian reproductive system. FEBS Letters, 1999, 449, 146-152.	2.8	41
115	Golgi Membranes Are Absorbed into and Reemerge from the ER during Mitosis. Cell, 1999, 99, 589-601.	28.9	315
116	Role of NAD+ and ADP-Ribosylation in the Maintenance of the Golgi Structure. Journal of Cell Biology, 1997, 139, 1109-1118.	5.2	50
117	Atherosclerosis-prone branch regions in human aorta: microarchitecture and cell composition of intima. Atherosclerosis, 1996, 122, 173-189.	0.8	31