

Oleg Palygin

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

1,977
citations

26
h-index

42
g-index

154
ext. papers

2,513
ext. citations

4.1
avg, IF

4.88
L-index

#	Paper	IF	Citations
110	Exocytosis of ATP from astrocytes modulates phasic and tonic inhibition in the neocortex. <i>PLoS Biology</i> , 2014 , 12, e1001747	9.7	168
109	Voltage-gated Nav channel targeting in the heart requires an ankyrin-G dependent cellular pathway. <i>Journal of Cell Biology</i> , 2008 , 180, 173-86	7.3	136
108	Ionotropic NMDA and P2X1/5 receptors mediate synaptically induced Ca ²⁺ signalling in cortical astrocytes. <i>Cell Calcium</i> , 2010 , 48, 225-31	4	118
107	miR-132/212 knockout mice reveal roles for these miRNAs in regulating cortical synaptic transmission and plasticity. <i>PLoS ONE</i> , 2013 , 8, e62509	3.7	103
106	Keratinocytes mediate innocuous and noxious touch via ATP-P2X4 signaling. <i>ELife</i> , 2018 , 7,	8.9	84
105	Distinct pharmacological and functional properties of NMDA receptors in mouse cortical astrocytes. <i>British Journal of Pharmacology</i> , 2011 , 163, 1755-66	8.6	76
104	Age-dependent remodelling of ionotropic signalling in cortical astroglia. <i>Aging Cell</i> , 2011 , 10, 392-402	9.9	68
103	Podocyte injury in diabetic nephropathy: implications of angiotensin II-dependent activation of TRPC channels. <i>Scientific Reports</i> , 2015 , 5, 17637	4.9	65
102	A NOX4/TRPC6 Pathway in Podocyte Calcium Regulation and Renal Damage in Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 1917-1927	12.7	64
101	Angiotensin II has acute effects on TRPC6 channels in podocytes of freshly isolated glomeruli. <i>Kidney International</i> , 2014 , 86, 506-14	9.9	60
100	Deficiency of renal cortical EGF increases ENaC activity and contributes to salt-sensitive hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 1053-62	12.7	58
99	MSK1 regulates homeostatic and experience-dependent synaptic plasticity. <i>Journal of Neuroscience</i> , 2012 , 32, 13039-51	6.6	56
98	Essential role of Kir5.1 channels in renal salt handling and blood pressure control. <i>JCI Insight</i> , 2017 , 2,	9.9	48
97	ATP from synaptic terminals and astrocytes regulates NMDA receptors and synaptic plasticity through PSD-95 multi-protein complex. <i>Scientific Reports</i> , 2016 , 6, 33609	4.9	43
96	Mutation of Plekha7 attenuates salt-sensitive hypertension in the rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12817-22	11.5	41
95	Cannabinoid receptors contribute to astroglial Ca ²⁺ -signalling and control of synaptic plasticity in the neocortex. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20140077	5.8	41
94	Direct inhibition of basolateral Kir4.1/5.1 and Kir4.1 channels in the cortical collecting duct by dopamine. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F1277-87	4.3	40

93	The MK2/3 cascade regulates AMPAR trafficking and cognitive flexibility. <i>Nature Communications</i> , 2014 , 5, 4701	17.4	39
92	Protective role of Trpc6 knockout in the progression of diabetic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 315, F1091-F1097	4.3	35
91	Regulation of caveolar cardiac sodium current by a single Gsalpha histidine residue. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H1693-9	5.2	34
90	The Role of Angiotensin II in Glomerular Volume Dynamics and Podocyte Calcium Handling. <i>Scientific Reports</i> , 2017 , 7, 299	4.9	32
89	Pharmacological characterization of the P2 receptors profile in the podocytes of the freshly isolated rat glomeruli. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 305, C1050-9	5.4	29
88	Real-time electrochemical detection of ATP and H ₂ O ₂ release in freshly isolated kidneys. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F134-41	4.3	29
87	p66Shc regulates renal vascular tone in hypertension-induced nephropathy. <i>Journal of Clinical Investigation</i> , 2016 , 126, 2533-46	15.9	28
86	Epidermal growth factors in the kidney and relationship to hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F12-20	4.3	26
85	Insulin and IGF-1 activate Kir4.1/5.1 channels in cortical collecting duct principal cells to control basolateral membrane voltage. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, F311-21	4.3	26
84	Role of TRPC6 in Progression of Diabetic Kidney Disease. <i>Current Hypertension Reports</i> , 2019 , 21, 48	4.7	23
83	Chronic central serotonin depletion attenuates ventilation and body temperature in young but not adult Tph2 knockout rats. <i>Journal of Applied Physiology</i> , 2016 , 120, 1070-81	3.7	23
82	Protease-activated receptors in kidney disease progression. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F1140-F1144	4.3	22
81	Role and mechanisms of regulation of the basolateral K 4.1/K 5.1K channels in the distal tubules. <i>Acta Physiologica</i> , 2017 , 219, 260-273	5.6	19
80	Ca ²⁺ -dependent modulation of GABAA and NMDA receptors by extracellular ATP: implication for function of tripartite synapse. <i>Biochemical Society Transactions</i> , 2009 , 37, 1407-11	5.1	19
79	Mechanosensory and ATP Release Deficits following Keratin14-Cre-Mediated TRPA1 Deletion Despite Absence of TRPA1 in Murine Keratinocytes. <i>PLoS ONE</i> , 2016 , 11, e0151602	3.7	19
78	Compartmentalization of the MAPK scaffold protein KSR1 modulates synaptic plasticity in hippocampal neurons. <i>FASEB Journal</i> , 2011 , 25, 2362-72	0.9	17
77	Progression of diabetic kidney disease in T2DN rats. <i>American Journal of Physiology - Renal Physiology</i> , 2019 , 317, F1450-F1461	4.3	16
76	Impaired epithelial Na ⁺ channel activity contributes to cystogenesis and development of autosomal recessive polycystic kidney disease in PCK rats. <i>Pediatric Research</i> , 2015 , 77, 64-9	3.2	16

75	Arp2/3 complex inhibitors adversely affect actin cytoskeleton remodeling in the cultured murine kidney collecting duct M-1 cells. <i>Cell and Tissue Research</i> , 2013 , 354, 783-92	4.2	16
74	Metabolic rewiring of the hypertensive kidney. <i>Science Signaling</i> , 2019 , 12,	8.8	16
73	Acute In Vivo Analysis of ATP Release in Rat Kidneys in Response to Changes of Renal Perfusion Pressure. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	15
72	Single-channel Analysis and Calcium Imaging in the Podocytes of the Freshly Isolated Glomeruli. <i>Journal of Visualized Experiments</i> , 2015 , e52850	1.6	15
71	Intravital imaging of the kidney in a rat model of salt-sensitive hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2017 , 313, F163-F173	4.3	12
70	Functional and therapeutic importance of purinergic signaling in polycystic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F1135-F1139	4.3	12
69	Characterization of purinergic receptor expression in ARPKD cystic epithelia. <i>Purinergic Signalling</i> , 2018 , 14, 485-497	3.8	12
68	Distal tubule basolateral potassium channels: cellular and molecular mechanisms of regulation. <i>Current Opinion in Nephrology and Hypertension</i> , 2018 , 27, 373-378	3.5	11
67	Lack of Effects of Metformin and AICAR Chronic Infusion on the Development of Hypertension in Dahl Salt-Sensitive Rats. <i>Frontiers in Physiology</i> , 2017 , 8, 227	4.6	11
66	Postprandial Effects on ENaC-Mediated Sodium Absorption. <i>Scientific Reports</i> , 2019 , 9, 4296	4.9	10
65	Genetic mutation of Kcnj16 identifies Kir5.1-containing channels as key regulators of acute and chronic pH homeostasis. <i>FASEB Journal</i> , 2019 , 33, 5067-5075	0.9	10
64	Use of Enzymatic Biosensors to Quantify Endogenous ATP or H ₂ O ₂ in the Kidney. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	9
63	Defects in KCNJ16 Cause a Novel Tubulopathy with Hypokalemia, Salt Wasting, Disturbed Acid-Base Homeostasis, and Sensorineural Deafness. <i>Journal of the American Society of Nephrology: JASN</i> , 2021 , 32, 1498-1512	12.7	9
62	Transcriptome-wide co-expression analysis identifies LRRC2 as a novel mediator of mitochondrial and cardiac function. <i>PLoS ONE</i> , 2017 , 12, e0170458	3.7	8
61	Expression, localization, and functional properties of inwardly rectifying K channels in the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, F332-F337	4.3	8
60	Nitric oxide production by glomerular podocytes. <i>Nitric Oxide - Biology and Chemistry</i> , 2018 , 72, 24-31	5	8
59	Vibrodissociation method for isolation of defined nephron segments from human and rodent kidneys. <i>American Journal of Physiology - Renal Physiology</i> , 2019 , 317, F1398-F1403	4.3	6
58	Implementing Patch Clamp and Live Fluorescence Microscopy to Monitor Functional Properties of Freshly Isolated PKD Epithelium. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	6

57	Modulation of ATP-induced LTP by cannabinoid receptors in rat hippocampus. <i>Purinergic Signalling</i> , 2012 , 8, 705-13	3.8	6
56	NOX4-dependent regulation of ENaC in hypertension and diabetic kidney disease. <i>FASEB Journal</i> , 2020 , 34, 13396-13408	0.9	6
55	Human genotyping and an experimental model reveal NPR-C as a possible contributor to morbidity in coarctation of the aorta. <i>Physiological Genomics</i> , 2019 , 51, 177-185	3.6	5
54	Endothelin receptor A and p66Shc regulate spontaneous Ca oscillations in smooth muscle cells controlling renal arterial spontaneous motion. <i>FASEB Journal</i> , 2019 , 33, 2636-2645	0.9	5
53	Increased ENaC activity during kidney preservation in Wisconsin solution. <i>BMC Nephrology</i> , 2019 , 20, 145	2.7	4
52	Effects of uric acid dysregulation on the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, F1252-F1257	4.3	4
51	Two-photon imaging of endothelin-1-mediated intracellular Ca(2+) handling in smooth muscle cells of rat renal resistance arteries. <i>Life Sciences</i> , 2016 , 159, 140-143	6.8	4
50	Two-photon Imaging of Intracellular Ca ²⁺ Handling and Nitric Oxide Production in Endothelial and Smooth Muscle Cells of an Isolated Rat Aorta. <i>Journal of Visualized Experiments</i> , 2015 , e52734	1.6	3
49	Role of opioid signaling in kidney damage during the development of salt-induced hypertension. <i>Life Science Alliance</i> , 2020 , 3,	5.8	3
48	Fluorescent Imaging and Microscopy for Dynamic Processes in Rats. <i>Methods in Molecular Biology</i> , 2019 , 2018, 151-175	1.4	3
47	Relationship between the renin-angiotensin-aldosterone system and renal Kir5.1 channels. <i>Clinical Science</i> , 2019 , 133, 2449-2461	6.5	3
46	Angiotensin II Dependent Regulation of TRPC6 Calcium Channels in the Podocytes of the STZ-induced Type 1 Diabetic Dahl SS Rats. <i>FASEB Journal</i> , 2015 , 29, 964.1	0.9	2
45	Characterization of purinergic receptor 2 signaling in podocytes from diabetic kidneys. <i>IScience</i> , 2021 , 24, 102528	6.1	2
44	Kcnj16 knockout produces audiogenic seizures in the Dahl salt-sensitive rat. <i>JCI Insight</i> , 2021 , 6,	9.9	2
43	p66Shc-mediated hydrogen peroxide production impairs nephrogenesis causing reduction of number of glomeruli. <i>Life Sciences</i> , 2021 , 279, 119661	6.8	2
42	Behavioral, metabolic, and renal outcomes of 1-month isolation in adolescent male Dahl salt-sensitive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020 , 319, R684-R689	3.2	1
41	Detection of endogenous substances with enzymatic microelectrode biosensors in the kidney. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 305, R89-91	3.2	1
40	Contribution of Kir4.1/Kir5.1 Channels to the Control of ENaC-Mediated Apical Sodium Transport in the Cortical Collecting Duct. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	1

39	Scanning ion conductance microscopy of live human glomerulus. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 4216-4219	5.6	1
38	Sexual dimorphism in the progression of type 2 diabetic kidney disease in T2DN rats. <i>Physiological Genomics</i> , 2021 , 53, 223-234	3.6	1
37	Acute and long-term effects of cannabinoids on hypertension and kidney injury.. <i>Scientific Reports</i> , 2022 , 12, 6080	4.9	1
36	Role of collecting duct principal cell NOS1 α in sodium and potassium homeostasis. <i>Physiological Reports</i> , 2021 , 9, e15080	2.6	0
35	Real-time electrochemical detection of endogenous substance release in freshly isolated organs. <i>FASEB Journal</i> , 2013 , 27, 910.16	0.9	0
34	Loss of Chloride Channel 6 (CLC-6) Affects Vascular Smooth Muscle Contractility and Arterial Stiffness via Alterations to Golgi Calcium Stores. <i>Hypertension</i> , 2021 , 77, 582-593	8.5	0
33	Gs β Protein-Mediated and Protein Kinase A-Independent Regulation of Caveolar Sodium Channels in Rat Cardiomyocytes. <i>Neurophysiology</i> , 2009 , 41, 8-15	0.6	
32	Metabolic rewiring of the hypertensive kidney. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
31	The Role of Xanthine Dehydrogenase (XDH) and Uric Acid in the Kidney Development and Renal Injury. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
30	Role of Kir4.1 (Kcnj10) in the Regulation of Salt-Induced Hypertension. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
29	Potential Role of cGAS-STING Pathway in the Induction of Diabetic Kidney Disease. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
28	Fructose Consumption Increases Blood Pressure and Induces Changes in Renal Microvascular Function. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
27	Sex Hormones and Development of Advanced Diabetic Nephropathy in Diabetic Kidney Disease. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
26	Type 1 Diabetes Results in Significant Purinergic Receptor Remodeling in Podocytes. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
25	The Protective Effects of Ketodiet in Salt-Sensitive Hypertension. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
24	Knockout of Kcnj16 (Kir5.1) in Dahl Salt-Sensitive Rats Produces Seizure Phenotype. <i>FASEB Journal</i> , 2018 , 32, 750.3	0.9	
23	Acute and Chronic Respiratory Effects from Repeated Audiogenic Seizures in SSKcnj16 Δ Rats. <i>FASEB Journal</i> , 2018 , 32, 894.14	0.9	
22	L-lysine Control of Albumin Reabsorption by the Renal Proximal Tubule Prevents the Development of Salt-Sensitive Hypertension. <i>FASEB Journal</i> , 2018 , 32, 716.5	0.9	

21	The Effect of Voltage-Sensitive Chloride Channel 6 on Development of Salt-Sensitive Hypertension. <i>FASEB Journal</i> , 2018 , 32, 750.23	0.9
20	Purinergic Receptors Profile in the ARPKD Cystic Epithelia. <i>FASEB Journal</i> , 2018 , 32, 624.4	0.9
19	Kcnj10 (Kir 4.1) Knockout in Dahl SS Rats Determines the Expression of Kcnj10 and Kcnj16 Proteins in Brain and Kidney. <i>FASEB Journal</i> , 2018 , 32, 620.3	0.9
18	New Vibro-Dissociation Method for Isolation of Defined Nephron Segments and Small Renal Vessels. <i>FASEB Journal</i> , 2019 , 33, 748.10	0.9
17	Metabolic Insults Drive the Development of Glomerular Sclerosis and Proteinuria in Salt-Sensitive Hypertensive Nephropathy. <i>FASEB Journal</i> , 2019 , 33, 571.3	0.9
16	Kir5.1-Mediated Changes in Renin-Angiotensin-Aldosterone System Balance in Salt Sensitive Hypertension. <i>FASEB Journal</i> , 2019 , 33, 862.12	0.9
15	Role of Nox4 in Angiotensin II-Mediated Changes in Volume Dynamics and Nitric Oxide Production in Podocytes. <i>FASEB Journal</i> , 2019 , 33, 575.1	0.9
14	EET Analogs and the Dual-Inhibition of sEH/COX-2 for the Treatment of Focal Segmental Glomerular Sclerosis. <i>FASEB Journal</i> , 2019 , 33, 863.8	0.9
13	Postprandial Effects on ENaC-Mediated Sodium Absorption. <i>FASEB Journal</i> , 2019 , 33, 751.15	0.9
12	The Role of Opioid Receptors in Podocyte Injury and Kidney Damage During the Development of Salt-Induced Hypertension. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9
11	Utilizing a Type 1 Diabetic Nephropathy Model Developed on the Basis of Streptozotocin-Treated Dahl SS Rats for the Studies of Calcium Handling in the Podocytes. <i>FASEB Journal</i> , 2015 , 29, 964.2	0.9
10	Mechanism of Angiotensin II - Mediated Changes in Glomeruli Permeability and Calcium Influx in Podocytes. <i>FASEB Journal</i> , 2015 , 29, 808.22	0.9
9	Nox4-mediated and Hydrogen Peroxide Dependent Regulation of ENaC In Salt-Sensitive Hypertension. <i>FASEB Journal</i> , 2015 , 29, 811.23	0.9
8	Role of Renal Interstitial ATP in Pressure Natriuresis/Diuresis Relationship. <i>FASEB Journal</i> , 2015 , 29, 811.16	0.9
7	The Regulatory Pathways of Nitric Oxide Production in Glomeruli Podocytes. <i>FASEB Journal</i> , 2015 , 29, 808.9	0.9
6	Two-Photon Imaging of Intracellular Ca ²⁺ Handling and Nitric Oxide Production in Endothelial and Smooth Muscle Cells of Isolated Rat Vessels. <i>FASEB Journal</i> , 2015 , 29, 808.18	0.9
5	The role of the Arp2/3 complex in the cytoskeleton organization and actin-mediated sodium reabsorption in kidney epithelial cells. <i>FASEB Journal</i> , 2013 , 27, 1145.8	0.9
4	Pharmacological characterization of the P2 receptors profile in the podocytes of the Sprague Dawley rat glomeruli. <i>FASEB Journal</i> , 2013 , 27, 912.22	0.9

- 3 Role of the epithelial Na⁺ channels (ENaC) in development of ARPKD. *FASEB Journal*, **2013**, 27, 1148.1 0.9
- 2 The Mechanisms of Cellular Plasticity in Collecting Duct Cells: Intermediate Cell Type and Notch-mediated Transdifferentiation. *Function*, **2021**, 2, zqab032 6.1
- 1 Nitric-Oxide-Mediated Signaling in Podocyte Pathophysiology. *Biomolecules*, **2022**, 12, 745 5.9