Robert J Unwin

List of Publications by Year
in descending order

127 papers	5,320 citations	81900 39 h-index	91884 69 g-index
129 all docs	129 docs citations	129 times ranked	6262 citing authors

#	Article	IF	Citations
1	Heavy metal poisoning: the effects of cadmium on the kidney. BioMetals, 2010, 23, 783-792.	4.1	540
2	Progression after AKI. Journal of the American Society of Nephrology: JASN, 2016, 27, 687-697.	6.1	351
3	A potential therapeutic role for P2X7 receptor (P2X7R) antagonists in the treatment of inflammatory diseases. Expert Opinion on Investigational Drugs, 2011, 20, 897-915.	4.1	212
4	A more tubulocentric view of diabetic kidney disease. Journal of Nephrology, 2017, 30, 701-717.	2.0	169
5	Band 3 mutations, renal tubular acidosis and South-East Asian ovalocytosis in Malaysia and Papua New Guinea: loss of up to 95% band 3 transport in red cells. Biochemical Journal, 2000, 350, 41-51.	3.7	164
6	Mechanisms of cognitive dysfunction in CKD. Nature Reviews Nephrology, 2020, 16, 452-469.	9.6	159
7	Pathophysiology and management of hypokalemia: a clinical perspective. Nature Reviews Nephrology, 2011, 7, 75-84.	9.6	156
8	Diabetes Increases Facilitative Glucose Uptake and GLUT2 Expression at the Rat Proximal Tubule Brush Border Membrane. Journal of Physiology, 2003, 553, 137-145.	2.9	145
9	Induction of proliferation and apoptotic cell death via P2Y and P2X receptors, respectively, in rat glomerular mesangial cells. Kidney International, 2000, 57, 949-958.	5.2	129
10	Glomerular expression of the ATP-sensitive P2X7 receptor in diabetic and hypertensive rat models. Kidney International, 2004, 66, 157-166.	5.2	116
11	Intestinal phosphate absorption and the effect of vitamin D: a comparison of rats with mice. Experimental Physiology, 2006, 91, 531-537.	2.0	108
12	P2X7 Deficiency Attenuates Renal Injury in Experimental Glomerulonephritis. Journal of the American Society of Nephrology: JASN, 2009, 20, 1275-1281.	6.1	105
13	The urinary proteome in Fanconi syndrome implies specificity in the reabsorption of proteins by renal proximal tubule cells. American Journal of Physiology - Renal Physiology, 2004, 287, F353-F364.	2.7	100
14	Detection and analysis of urinary peptides by on-line liquid chromatography and mass spectrometry: application to patients with renal Fanconi syndrome. Clinical Science, 2003, 104, 483-490.	4.3	90
15	Physiological regulation of phosphate by vitamin D, parathyroid hormone (PTH) and phosphate (Pi). Pflugers Archiv European Journal of Physiology, 2019, 471, 83-98.	2.8	90
16	Axial distribution and characterization of basolateral P2Y receptors along the rat renal tubule. Kidney International, 2000, 58, 1893-1901.	5.2	78
17	Renal Fanconi syndrome: taking a proximal look at the nephron. Nephrology Dialysis Transplantation, 2015, 30, 1456-1460.	0.7	74
18	Tubular iron deposition and iron handling proteins in human healthy kidney and chronic kidney disease. Scientific Reports, 2018, 8, 9353.	3.3	74

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19	Increased expression of the pro-apoptotic ATP-sensitive P2X7 receptor in experimental and human glomerulonephritis. Nephrology Dialysis Transplantation, 2006, 22, 386-395.	0.7	73
20	Immunolocalization of ectonucleotidases along the rat nephron. American Journal of Physiology - Renal Physiology, 2006, 290, F550-F560.	2.7	72
21	Sodium-Dependent Regulation of Renal Amiloride-Sensitive Currents by Apical P2 Receptors. Journal of the American Society of Nephrology: JASN, 2008, 19, 731-742.	6.1	72
22	Purinergic signaling in kidney disease. Kidney International, 2017, 91, 315-323.	5.2	72
23	Subclinical Tubular Injury in HIV-Infected Individuals on Antiretroviral Therapy: A Cross-sectional Analysis. American Journal of Kidney Diseases, 2009, 54, 1034-1042.	1.9	70
24	Effect of being overweight on urinary metabolic risk factors for kidney stone formation. Nephrology Dialysis Transplantation, 2015, 30, 607-613.	0.7	69
25	What is nephrocalcinosis?. Kidney International, 2015, 88, 35-43.	5.2	67
26	Sensitization by Extracellular Ca2+ of Rat P2X5 Receptor and Its Pharmacological Properties Compared with Rat P2X1.. Molecular Pharmacology, 2002, 62, 957-966.	2.3	64
27	Hyperglycemia-induced Renal P2X7 Receptor Activation Enhances Diabetes-related Injury. EBioMedicine, 2017, 19, 73-83.	6.1	64
28	Proteomic analysis of plasma membrane vesicles isolated from the rat renal cortex. Proteomics, 2005, 5, 101-112.	2.2	61
29	Intraluminal ATP Concentrations in Rat Renal Tubules. Journal of the American Society of Nephrology: JASN, 2006, 17, 1841-1847.	6.1	61
30	Vascular Calcification and Bone Mineral Density in Recurrent Kidney Stone Formers. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 278-285.	4.5	60
31	Experimental and regional variations in Na⁺-dependent and Na⁺-independent phosphate transport along the rat small intestine and colon. Physiological Reports, 2015, 3, e12281.	1.7	58
32	Extracellular Nucleotides and P2 Receptors in Renal Function. Physiological Reviews, 2020, 100, 211-269.	28.8	58
33	P2 receptors in the kidney. Journal of the Autonomic Nervous System, 2000, 81, 264-270.	1.9	57
34	Purinergic Signaling Along the Renal Tubule: The Current State of Play. Physiology, 2003, 18, 237-241.	3.1	56
35	Combined proteomic and metabonomic studies in three genetic forms of the renal Fanconi syndrome. American Journal of Physiology - Renal Physiology, 2007, 293, F456-F467.	2.7	55
36	P2X7 receptor-mediated Nlrp3-inflammasome activation is a genetic determinant of macrophage-dependent crescentic glomerulonephritis. Journal of Leukocyte Biology, 2013, 93, 127-134.	3.3	50

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37	Inhibition of the purinergic P2X7 receptor improves renal perfusion in angiotensin-II-infused rats. Kidney International, 2015, 88, 1079-1087.	5.2	48
38	Nucleotides Downregulate Aquaporin 2 via Activation of Apical P2 Receptors. Journal of the American Society of Nephrology: JASN, 2009, 20, 1480-1490.	6.1	41
39	The urinary proteome and metabonome differ from normal in adults with mitochondrial disease. Kidney International, 2015, 87, 610-622.	5.2	41
40	Evidence for Basolateral P2Y6 Receptors along the Rat Proximal Tubule. Journal of the American Society of Nephrology: JASN, 2001, 12, 1640-1647.	6.1	40
41	Potassium and sodium transport along the loop of Henle: Effects of altered dietary potassium intake. Kidney International, 1994, 46, 1092-1099.	5.2	39
42	The P2X7 ATP receptor modulates renal cyst development in vitro. Biochemical and Biophysical Research Communications, 2004, 322, 434-439.	2.1	38
43	Label Free Detection of Sensitive Mid-Infrared Biomarkers of Glomerulonephritis in Urine Using Fourier Transform Infrared Spectroscopy. Scientific Reports, 2017, 7, 4601.	3.3	38
44	Mild cognitive impairment and kidney disease: clinical aspects. Nephrology Dialysis Transplantation, 2020, 35, 10-17.	0.7	38
45	Bartter's and Gitelman's syndromes: their relationship to the actions of loop and thiazide diuretics. Current Opinion in Pharmacology, 2006, 6, 208-213.	3.5	36
46	Infrared vibrational spectroscopy: a rapid and novel diagnostic and monitoring tool for cystinuria. Scientific Reports, 2016, 6, 34737.	3.3	36
47	Renal Tubular Cell Mitochondrial Dysfunction Occurs Despite Preserved Renal Oxygen Delivery in Experimental Septic Acute Kidney Injury. Critical Care Medicine, 2018, 46, e318-e325.	0.9	36
48	Regulatory Interdependence of Cloned Epithelial Na+ Channels and P2X Receptors. Journal of the American Society of Nephrology: JASN, 2005, 16, 2586-2597.	6.1	35
49	Effect of P2X4 and P2X7 receptor antagonism on the pressure diuresis relationship in rats. Frontiers in Physiology, 2013, 4, 305.	2.8	33
50	Mutation affecting the conserved acidic WNK1 motif causes inherited hyperkalemic hyperchloremic acidosis. Journal of Clinical Investigation, 2020, 130, 6379-6394.	8.2	32
51	P2X₇ Receptors Are Expressed during Mouse Nephrogenesis and in Collecting Duct Cysts of the cpk/cpk Mouse. Nephron Experimental Nephrology, 2002, 10, 34-42.	2.2	31
52	P2 purinoceptors: Renal pathophysiology and therapeutic potential. Clinical Nephrology, 2012, 78, 154-163.	0.7	31
53	Novel OCRL mutations in patients with Dent-2 disease. Journal of Pediatric Genetics, 2015, 01, 015-023.	0.7	29
54	Experimental type II diabetes and related models of impaired glucose metabolism differentially regulate glucose transporters at the proximal tubule brush border membrane. Experimental Physiology, 2016, 101, 731-742.	2.0	29

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55	The Renal Tubular Acidoses. Journal of the Royal Society of Medicine, 2001, 94, 221-225.	2.0	28
56	Putative tissue location and function of the SLC5 family member SGLT3. Experimental Physiology, 2017, 102, 5-13.	2.0	28
57	Regulatory <scp>T</scp> cells participate in <scp>CD</scp>39â€mediated protection from renal injury. European Journal of Immunology, 2012, 42, 2441-2451.	2.9	26
58	Vitamin D deficiency is prevalent among idiopathic stone formers, but does correction pose any risk?. Urolithiasis, 2017, 45, 535-543.	2.0	26
59	Chronic kidney disease and neurological disorders: are uraemic toxins the missing piece of the puzzle?. Nephrology Dialysis Transplantation, 2021, 37, ii33-ii44.	0.7	26
60	Cognitive disorders in patients with chronic kidney disease: specificities of clinical assessment. Nephrology Dialysis Transplantation, 2021, 37, ii23-ii32.	0.7	25
61	Purinergic signaling in inflammatory renal disease. Frontiers in Physiology, 2013, 4, 194.	2.8	24
62	Exaggerated renal fibrosis in P2X4 receptor-deficient mice following unilateral ureteric obstruction. Nephrology Dialysis Transplantation, 2014, 29, 1350-1361.	0.7	24
63	Selective screening for distal renal tubular acidosis in recurrent kidney stone formers: initial experience and comparison of the simultaneous furosemide and fludrocortisone test with the short ammonium chloride test. Nephrology Dialysis Transplantation, 2016, 31, 1870-1876.	0.7	22
64	Polyphenotypic Expression of Mitochondrial Toxicity Caused by Nucleoside Reverse Transcriptase Inhibitors. Antiviral Therapy, 2003, 8, 253-257.	1.0	22
65	Tubular and genetic disorders associated with kidney stones. Urolithiasis, 2017, 45, 127-137.	2.0	19
66	P2X₇ receptor antagonism ameliorates renal dysfunction in a rat model of sepsis. Physiological Reports, 2018, 6, e13622.	1.7	19
67	Drug toxicity in the proximal tubule: new models, methods and mechanisms. Pediatric Nephrology, 2022, 37, 973-982.	1.7	19
68	Sympathetic Nerve Varicosities in Close Apposition to Basolateral Membranes of Collecting Duct Epithelial Cells of Rat Kidney. Nephron Physiology, 2009, 113, p15-p21.	1.2	18
69	Sirtuin 5 depletion impairs mitochondrial function in human proximal tubular epithelial cells. Scientific Reports, 2021, 11, 15510.	3.3	18
70	Chicken DT40 cells stably transfected with the rat P2X7 receptor ion channel: a system suitable for the study of purine receptor-mediated cell death. Biochemical Pharmacology, 2003, 66, 415-424.	4.4	17
71	Liquorice, Liddle, Bartter or Gitelmanâ€"how to differentiate?. Nephrology Dialysis Transplantation, 2019, 34, 38-39.	0.7	17
72	Acidosis, cognitive dysfunction and motor impairments in patients with kidney disease. Nephrology Dialysis Transplantation, 2021, 37, ii4-ii12.	0.7	16

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73	Albuminuria as a risk factor for mild cognitive impairment and dementiaâ€"what is the evidence?. Nephrology Dialysis Transplantation, 2021, 37, ii55-ii62.	0.7	14
74	Changes in urinary risk profile after short-term low sodium and low calcium diet in recurrent Swiss kidney stone formers. BMC Nephrology, 2017, 18, 349.	1.8	13
75	Nonesterified free fatty acids enhance the inflammatory response in renal tubules by inducing extracellular ATP release. American Journal of Physiology - Renal Physiology, 2020, 319, F292-F303.	2.7	13
76	Neurotensin and antinatriuresis in the conscious rabbit. British Journal of Pharmacology, 1983, 79, 15-18.	5.4	12
77	Multiparametric imaging reveals that mitochondriaâ€rich intercalated cells in the kidney collecting duct have a very high glycolytic capacity. FASEB Journal, 2020, 34, 8510-8525.	0.5	12
78	Predicting the protein composition of human urine in normal and pathological states: Quantitative description based on Dent1 disease (CLCN5 mutation). Journal of Physiology, 2021, 599, 323-341.	2.9	12
79	Studies on the renin response to vasoactive intestinal polyeptide (VIP) in the conscious rabbit. British Journal of Pharmacology, 1983, 80, 13-15.	5.4	11
80	Magnesium: The Disregarded Cation. Mayo Clinic Proceedings, 2015, 90, 993-995.	3.0	11
81	Purinergic signalling in the kidney: In physiology and disease. Biochemical Pharmacology, 2021, 187, 114389.	4.4	11
82	Neuropeptide Y as a risk factor for cardiorenal disease and cognitive dysfunction in chronic kidney disease: translational opportunities and challenges. Nephrology Dialysis Transplantation, 2021, 37, ii14-ii23.	0.7	11
83	A New Estimate of the Glomerular Sieving Coefficient for Retinol-Binding Protein 4 Suggests It Is Not Freely Filtered. Kidney International Reports, 2019, 4, 1017-1018.	0.8	10
84	Distal renal tubular acidosis in association with HIV infection and AIDS. Nephrology Dialysis Transplantation, 2006, 21, 1420-1422.	0.7	9
85	Intestinal sodium/glucose cotransporter 3 expression is epithelial and downregulated in obesity. Life Sciences, 2021, 267, 118974.	4.3	9
86	The renal and blood pressure response to low sodium diet in P2X4 receptor knockout mice. Physiological Reports, 2018, 6, e13899.	1.7	8
87	A preliminary survey of practice patterns across several European kidney stone centers and a call for action in developing shared practice. Urolithiasis, 2019, 47, 219-224.	2.0	8
88	Vasoactive intestinal polypeptide stimulation of prolactin release and renin activity in normal man and patients with hyperprolactinaemia: effects of pretreatment with bromocriptine and dexamethazone. European Journal of Clinical Investigation, 1984, 14, 444-448.	3.4	7
89	P2X receptors and kidney function. Environmental Sciences Europe, 2012, 1, 503-511.	5.5	7
90	Postprandial adjustments in renal phosphate excretion do not involve a gutâ€derived phosphaturic factor. Experimental Physiology, 2017, 102, 462-474.	2.0	7

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91	Inherited proximal tubular disorders and nephrolithiasis. Urolithiasis, 2019, 47, 35-42.	2.0	7
92	P2X7 Receptor Stimulation Is Not Required for Oxalate Crystal-Induced Kidney Injury. Scientific Reports, 2019, 9, 20086.	3.3	7
93	Exploring molecular pathology of chronic kidney disease in systemic sclerosis by analysis of urinary and serum proteins. Rheumatology Advances in Practice, 2021, 5, rkaa083.	0.7	7
94	Assessment of Measurement of Salivary Urea by ATR-FTIR Spectroscopy to Screen for CKD. Kidney360, 2022, 3, 357-363.	2.1	7
95	A Case of Drug-Induced Proximal Tubular Dysfunction. Clinical Journal of the American Society of Nephrology: CJASN, 2019, 14, 1384-1387.	4.5	6
96	Brain dysfunction in tubular and tubulointerstitial kidney diseases. Nephrology Dialysis Transplantation, 2021, 37, ii46-ii55.	0.7	6
97	Practice patterns of kidney stone management across European and non-European centers: an in-depth investigation from the European Renal Stone Network (ERSN). Journal of Nephrology, 2021, 34, 1337-1346.	2.0	5
98	The 1918 Influenza Pandemic: Back to the Future?. Kidney and Blood Pressure Research, 2021, 46, 1-8.	2.0	5
99	Increased renal papillary density in kidney stone formers detectable by CT scan is a potential marker of stone risk, but is unrelated to underlying hypercalciuria. Urolithiasis, 2016, 44, 471-475.	2.0	4
100	Dietâ€induced iron deficiency in rats impacts small intestinal calcium and phosphate absorption. Acta Physiologica, 2021, 232, e13650.	3.8	4
101	Urinary acidification and distal renal tubular acidosis. Journal of Nephrology, 2002, 15 Suppl 5, S142-50.	2.0	4
102	Application of proteomic techniques to the study of urine and renal tissue. Proteomics - Clinical Applications, 2008, 2, 1564-1574.	1.6	3
103	Persistent severe polyuria after renal transplant. CKJ: Clinical Kidney Journal, 2016, 9, 180-183.	2.9	3
104	Obesity-Related Glomerulopathy: Hyperfiltration May Contribute to Early Proteinuria. Kidney International Reports, 2021, 6, 867.	0.8	3
105	Toxic nephropathy: Adverse renal effects caused by drugs. European Journal of Internal Medicine, 2022, 96, 20-25.	2.2	3
106	Glomerulonephritis and autoimmune vasculitis are independent of <scp>P2RX7</scp> but may depend on alternative inflammasome pathways. Journal of Pathology, 2022, 257, 300-313.	4.5	3
107	Physiological regulation of phosphate homeostasis. Vitamins and Hormones, 2022, , 47-78.	1.7	2
108	Electrolytes and acidâ€“base: common fluid and electrolyte disorders. Medicine, 2011, 39, 317-324.	0.4	1

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109	Acute saccharin infusion has no effect on renal glucose handling in normal rats inÂvivo. Physiological Reports, 2018, 6, e13804.	1.7	1
110	A rare case of genetically linked primary distal renal tubular acidosis and Southeast Asian ovalocytosis. Internal Medicine Journal, 2020, 50, 383-385.	0.8	1
111	Interdependent expression of P2X receptors in the mouse kidney: P2X4â€P2X7 receptor â€œcrossâ€talkâ€. FASEB Journal, 2013, 27, 884.3.	0.5	1
112	Evidence for functional P2X receptors in a mouse cortical collecting duct cell line. FASEB Journal, 2013, 27, 910.4.	0.5	1
113	A guide to renal stone disease. Practitioner, 2005, 249, 18, 20, 24 passim.	0.3	1
114	Severe hypertension due to baroreflex failure - a case presentation. American Journal of Hypertension, 2001, 14, A252.	2.0	0
115	Back to the future: renal tubular acidosis then and now. QJM - Monthly Journal of the Association of Physicians, 2012, 105, 915-916.	0.5	0
116	Electrolytes and acidâ€“base: common fluid and electrolyte disorders. Medicine, 2015, 43, 374-380.	0.4	0
117	FP446A MICROPUNCTURE STUDY OF THE EFFECT OF SACCHARIN INFUSION ON RENAL GLUCOSE TRANSPORT IN RATS. Nephrology Dialysis Transplantation, 2015, 30, iii220-iii220.	0.7	0
118	305.â€ƒURINARY CELL ADHESION MOLECULES AS MARKERS OF RENAL INVOLVEMENT IN SYSTEMIC SCLEROSIS. Rheumatology, 2017, 56, .	1.9	0
119	SP030FANCONI-BICKEL SYNDROME (GLYCOGENOSIS XI) A NEW POTENTIAL THERAPEUTIC APPROACH. Nephrology Dialysis Transplantation, 2018, 33, i356-i356.	0.7	0
120	P2X7 receptors and klotho. Purinergic Signalling, 2020, 16, 151-152.	2.2	0
121	Further evidence for functional recovery of AQP2 mutations associated with nephrogenic diabetes insipidus. Physiological Reports, 2021, 9, e14866.	1.7	0
122	Purinergic signalling in the kidney â€“ A beginning with Geoffrey Burnstock. Autonomic Neuroscience: Basic and Clinical, 2021, 234, 102833.	2.8	0
123	Pericyteâ€mediated regulation of vasa recta capillaries in situ.. FASEB Journal, 2009, 23, 969.4.	0.5	0
124	Modulation Of Renal Glucose Transport By Sweet Taste Sensing At The Proximal Tubule Brush Border Membrane. FASEB Journal, 2012, 26, 1068.18.	0.5	0
125	Serine proteases affect in situ vasa recta capillary diameter: mechanism for kidney failure associated with pancreatitis?. FASEB Journal, 2013, 27, 1110.12.	0.5	0
126	Present and future of CONNECT: a new and compelling project of modern medicine. Nephrology Dialysis Transplantation, 2021, 37, ii1-ii3.	0.7	0

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127	Exploration of a panel of urine biomarkers of kidney disease in two paediatric cohorts with Type 1 diabetes mellitus of differing duration. Diabetology and Metabolic Syndrome, 2022, 14, 71.	2.7	0