

Robert J Unwin

List of Publications by Year in descending order

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127
papers

5,320
citations

81743

39
h-index

91712

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. <i>BioMetals</i> , 2010, 23, 783-792.	1.8	540
2	Progression after AKI. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 687-697.	3.0	351
3	A potential therapeutic role for P2X7 receptor (P2X7R) antagonists in the treatment of inflammatory diseases. <i>Expert Opinion on Investigational Drugs</i> , 2011, 20, 897-915.	1.9	212
4	A more tubulocentric view of diabetic kidney disease. <i>Journal of Nephrology</i> , 2017, 30, 701-717.	0.9	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. <i>Biochemical Journal</i> , 2000, 350, 41-51.	1.7	164
6	Mechanisms of cognitive dysfunction in CKD. <i>Nature Reviews Nephrology</i> , 2020, 16, 452-469.	4.1	159
7	Pathophysiology and management of hypokalemia: a clinical perspective. <i>Nature Reviews Nephrology</i> , 2011, 7, 75-84.	4.1	156
8	Diabetes Increases Facilitative Glucose Uptake and GLUT2 Expression at the Rat Proximal Tubule Brush Border Membrane. <i>Journal of Physiology</i> , 2003, 553, 137-145.	1.3	145
9	Induction of proliferation and apoptotic cell death via P2Y and P2X receptors, respectively, in rat glomerular mesangial cells. <i>Kidney International</i> , 2000, 57, 949-958.	2.6	129
10	Glomerular expression of the ATP-sensitive P2X7 receptor in diabetic and hypertensive rat models. <i>Kidney International</i> , 2004, 66, 157-166.	2.6	116
11	Intestinal phosphate absorption and the effect of vitamin D: a comparison of rats with mice. <i>Experimental Physiology</i> , 2006, 91, 531-537.	0.9	108
12	P2X7 Deficiency Attenuates Renal Injury in Experimental Glomerulonephritis. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1275-1281.	3.0	105
13	The urinary proteome in Fanconi syndrome implies specificity in the reabsorption of proteins by renal proximal tubule cells. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, F353-F364.	1.3	100
14	Detection and analysis of urinary peptides by on-line liquid chromatography and mass spectrometry: application to patients with renal Fanconi syndrome. <i>Clinical Science</i> , 2003, 104, 483-490.	1.8	90
15	Physiological regulation of phosphate by vitamin D, parathyroid hormone (PTH) and phosphate (Pi). <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 83-98.	1.3	90
16	Axial distribution and characterization of basolateral P2Y receptors along the rat renal tubule. <i>Kidney International</i> , 2000, 58, 1893-1901.	2.6	78
17	Renal Fanconi syndrome: taking a proximal look at the nephron. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 1456-1460.	0.4	74
18	Tubular iron deposition and iron handling proteins in human healthy kidney and chronic kidney disease. <i>Scientific Reports</i> , 2018, 8, 9353.	1.6	74

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19	Increased expression of the pro-apoptotic ATP-sensitive P2X7 receptor in experimental and human glomerulonephritis. <i>Nephrology Dialysis Transplantation</i> , 2006, 22, 386-395.	0.4	73
20	Immunolocalization of ectonucleotidases along the rat nephron. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F550-F560.	1.3	72
21	Sodium-Dependent Regulation of Renal Amiloride-Sensitive Currents by Apical P2 Receptors. <i>Journal of the American Society of Nephrology: JASN</i> , 2008, 19, 731-742.	3.0	72
22	Purinergic signaling in kidney disease. <i>Kidney International</i> , 2017, 91, 315-323.	2.6	72
23	Subclinical Tubular Injury in HIV-Infected Individuals on Antiretroviral Therapy: A Cross-sectional Analysis. <i>American Journal of Kidney Diseases</i> , 2009, 54, 1034-1042.	2.1	70
24	Effect of being overweight on urinary metabolic risk factors for kidney stone formation. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 607-613.	0.4	69
25	What is nephrocalcinosis?. <i>Kidney International</i> , 2015, 88, 35-43.	2.6	67
26	Sensitization by Extracellular Ca ²⁺ of Rat P2X5 Receptor and Its Pharmacological Properties Compared with Rat P2X1.. <i>Molecular Pharmacology</i> , 2002, 62, 957-966.	1.0	64
27	Hyperglycemia-induced Renal P2X7 Receptor Activation Enhances Diabetes-related Injury. <i>EBioMedicine</i> , 2017, 19, 73-83.	2.7	64
28	Proteomic analysis of plasma membrane vesicles isolated from the rat renal cortex. <i>Proteomics</i> , 2005, 5, 101-112.	1.3	61
29	Intraluminal ATP Concentrations in Rat Renal Tubules. <i>Journal of the American Society of Nephrology: JASN</i> , 2006, 17, 1841-1847.	3.0	61
30	Vascular Calcification and Bone Mineral Density in Recurrent Kidney Stone Formers. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2015, 10, 278-285.	2.2	60
31	Experimental and regional variations in Na ⁺ -dependent and Na ⁺ -independent phosphate transport along the rat small intestine and colon. <i>Physiological Reports</i> , 2015, 3, e12281.	0.7	58
32	Extracellular Nucleotides and P2 Receptors in Renal Function. <i>Physiological Reviews</i> , 2020, 100, 211-269.	13.1	58
33	P2 receptors in the kidney. <i>Journal of the Autonomic Nervous System</i> , 2000, 81, 264-270.	1.9	57
34	Purinergic Signaling Along the Renal Tubule: The Current State of Play. <i>Physiology</i> , 2003, 18, 237-241.	1.6	56
35	Combined proteomic and metabolomic studies in three genetic forms of the renal Fanconi syndrome. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F456-F467.	1.3	55
36	P2X7 receptor-mediated Nlrp3-inflammasome activation is a genetic determinant of macrophage-dependent crescentic glomerulonephritis. <i>Journal of Leukocyte Biology</i> , 2013, 93, 127-134.	1.5	50

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37	Inhibition of the purinergic P2X7 receptor improves renal perfusion in angiotensin-II-infused rats. <i>Kidney International</i> , 2015, 88, 1079-1087.	2.6	48
38	Nucleotides Downregulate Aquaporin 2 via Activation of Apical P2 Receptors. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1480-1490.	3.0	41
39	The urinary proteome and metabonome differ from normal in adults with mitochondrial disease. <i>Kidney International</i> , 2015, 87, 610-622.	2.6	41
40	Evidence for Basolateral P2Y6 Receptors along the Rat Proximal Tubule. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 1640-1647.	3.0	40
41	Potassium and sodium transport along the loop of Henle: Effects of altered dietary potassium intake. <i>Kidney International</i> , 1994, 46, 1092-1099.	2.6	39
42	The P2X7 ATP receptor modulates renal cyst development in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 434-439.	1.0	38
43	Label Free Detection of Sensitive Mid-Infrared Biomarkers of Glomerulonephritis in Urine Using Fourier Transform Infrared Spectroscopy. <i>Scientific Reports</i> , 2017, 7, 4601.	1.6	38
44	Mild cognitive impairment and kidney disease: clinical aspects. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 10-17.	0.4	38
45	Barter's and Gitelman's syndromes: their relationship to the actions of loop and thiazide diuretics. <i>Current Opinion in Pharmacology</i> , 2006, 6, 208-213.	1.7	36
46	Infrared vibrational spectroscopy: a rapid and novel diagnostic and monitoring tool for cystinuria. <i>Scientific Reports</i> , 2016, 6, 34737.	1.6	36
47	Renal Tubular Cell Mitochondrial Dysfunction Occurs Despite Preserved Renal Oxygen Delivery in Experimental Septic Acute Kidney Injury. <i>Critical Care Medicine</i> , 2018, 46, e318-e325.	0.4	36
48	Regulatory Interdependence of Cloned Epithelial Na ⁺ Channels and P2X Receptors. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 2586-2597.	3.0	35
49	Effect of P2X4 and P2X7 receptor antagonism on the pressure diuresis relationship in rats. <i>Frontiers in Physiology</i> , 2013, 4, 305.	1.3	33
50	Mutation affecting the conserved acidic WNK1 motif causes inherited hyperkalemic hyperchloremic acidosis. <i>Journal of Clinical Investigation</i> , 2020, 130, 6379-6394.	3.9	32
51	P2X ₇ Receptors Are Expressed during Mouse Nephrogenesis and in Collecting Duct Cysts of the <i>cpk/cpk</i> Mouse. <i>Nephron Experimental Nephrology</i> , 2002, 10, 34-42.	2.4	31
52	P2 purinoceptors: Renal pathophysiology and therapeutic potential. <i>Clinical Nephrology</i> , 2012, 78, 154-163.	0.4	31
53	Novel OCRL mutations in patients with Dent-2 disease. <i>Journal of Pediatric Genetics</i> , 2015, 01, 015-023.	0.3	29
54	Experimental type II diabetes and related models of impaired glucose metabolism differentially regulate glucose transporters at the proximal tubule brush border membrane. <i>Experimental Physiology</i> , 2016, 101, 731-742.	0.9	29

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55	The Renal Tubular Acidoses. <i>Journal of the Royal Society of Medicine</i> , 2001, 94, 221-225.	1.1	28
56	Putative tissue location and function of the SLC5 family member SGLT3. <i>Experimental Physiology</i> , 2017, 102, 5-13.	0.9	28
57	Regulatory T cells participate in CD39-mediated protection from renal injury. <i>European Journal of Immunology</i> , 2012, 42, 2441-2451.	1.6	26
58	Vitamin D deficiency is prevalent among idiopathic stone formers, but does correction pose any risk?. <i>Urolithiasis</i> , 2017, 45, 535-543.	1.2	26
59	Chronic kidney disease and neurological disorders: are uraemic toxins the missing piece of the puzzle?. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii33-ii44.	0.4	26
60	Cognitive disorders in patients with chronic kidney disease: specificities of clinical assessment. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii23-ii32.	0.4	25
61	Purinergic signaling in inflammatory renal disease. <i>Frontiers in Physiology</i> , 2013, 4, 194.	1.3	24
62	Exaggerated renal fibrosis in P2X4 receptor-deficient mice following unilateral ureteric obstruction. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 1350-1361.	0.4	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. <i>Nephrology Dialysis Transplantation</i> , 2016, 31, 1870-1876.	0.4	22
64	Polyphenotypic Expression of Mitochondrial Toxicity Caused by Nucleoside Reverse Transcriptase Inhibitors. <i>Antiviral Therapy</i> , 2003, 8, 253-257.	0.6	22
65	Tubular and genetic disorders associated with kidney stones. <i>Urolithiasis</i> , 2017, 45, 127-137.	1.2	19
66	P2X ₇ receptor antagonism ameliorates renal dysfunction in a rat model of sepsis. <i>Physiological Reports</i> , 2018, 6, e13622.	0.7	19
67	Drug toxicity in the proximal tubule: new models, methods and mechanisms. <i>Pediatric Nephrology</i> , 2022, 37, 973-982.	0.9	19
68	Sympathetic Nerve Varicosities in Close Apposition to Basolateral Membranes of Collecting Duct Epithelial Cells of Rat Kidney. <i>Nephron Physiology</i> , 2009, 113, p15-p21.	1.5	18
69	Sirtuin 5 depletion impairs mitochondrial function in human proximal tubular epithelial cells. <i>Scientific Reports</i> , 2021, 11, 15510.	1.6	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. <i>Biochemical Pharmacology</i> , 2003, 66, 415-424.	2.0	17
71	Liquorice, Liddle, Bartter or Gitelman—how to differentiate?. <i>Nephrology Dialysis Transplantation</i> , 2019, 34, 38-39.	0.4	17
72	Acidosis, cognitive dysfunction and motor impairments in patients with kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii4-ii12.	0.4	16

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73	Albuminuria as a risk factor for mild cognitive impairment and dementia—what is the evidence?. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii55-ii62.	0.4	14
74	Changes in urinary risk profile after short-term low sodium and low calcium diet in recurrent Swiss kidney stone formers. <i>BMC Nephrology</i> , 2017, 18, 349.	0.8	13
75	Nonesterified free fatty acids enhance the inflammatory response in renal tubules by inducing extracellular ATP release. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F292-F303.	1.3	13
76	Neurotensin and antinatriuresis in the conscious rabbit. <i>British Journal of Pharmacology</i> , 1983, 79, 15-18.	2.7	12
77	Multiparametric imaging reveals that mitochondria-rich intercalated cells in the kidney collecting duct have a very high glycolytic capacity. <i>FASEB Journal</i> , 2020, 34, 8510-8525.	0.2	12
78	Predicting the protein composition of human urine in normal and pathological states: Quantitative description based on Dent1 disease (CLCN5 mutation). <i>Journal of Physiology</i> , 2021, 599, 323-341.	1.3	12
79	Studies on the renin response to vasoactive intestinal polypeptide (VIP) in the conscious rabbit. <i>British Journal of Pharmacology</i> , 1983, 80, 13-15.	2.7	11
80	Magnesium: The Disregarded Cation. <i>Mayo Clinic Proceedings</i> , 2015, 90, 993-995.	1.4	11
81	Purinergic signalling in the kidney: In physiology and disease. <i>Biochemical Pharmacology</i> , 2021, 187, 114389.	2.0	11
82	Neuropeptide Y as a risk factor for cardiorenal disease and cognitive dysfunction in chronic kidney disease: translational opportunities and challenges. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii14-ii23.	0.4	11
83	A New Estimate of the Glomerular Sieving Coefficient for Retinol-Binding Protein 4 Suggests It Is Not Freely Filtered. <i>Kidney International Reports</i> , 2019, 4, 1017-1018.	0.4	10
84	Distal renal tubular acidosis in association with HIV infection and AIDS. <i>Nephrology Dialysis Transplantation</i> , 2006, 21, 1420-1422.	0.4	9
85	Intestinal sodium/glucose cotransporter 3 expression is epithelial and downregulated in obesity. <i>Life Sciences</i> , 2021, 267, 118974.	2.0	9
86	The renal and blood pressure response to low sodium diet in P2X4 receptor knockout mice. <i>Physiological Reports</i> , 2018, 6, e13899.	0.7	8
87	A preliminary survey of practice patterns across several European kidney stone centers and a call for action in developing shared practice. <i>Urolithiasis</i> , 2019, 47, 219-224.	1.2	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. <i>European Journal of Clinical Investigation</i> , 1984, 14, 444-448.	1.7	7
89	P2X receptors and kidney function. <i>Environmental Sciences Europe</i> , 2012, 1, 503-511.	2.6	7
90	Postprandial adjustments in renal phosphate excretion do not involve a gut-derived phosphaturic factor. <i>Experimental Physiology</i> , 2017, 102, 462-474.	0.9	7

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91	Inherited proximal tubular disorders and nephrolithiasis. <i>Urolithiasis</i> , 2019, 47, 35-42.	1.2	7
92	P2X7 Receptor Stimulation Is Not Required for Oxalate Crystal-Induced Kidney Injury. <i>Scientific Reports</i> , 2019, 9, 20086.	1.6	7
93	Exploring molecular pathology of chronic kidney disease in systemic sclerosis by analysis of urinary and serum proteins. <i>Rheumatology Advances in Practice</i> , 2021, 5, rkaa083.	0.3	7
94	Assessment of Measurement of Salivary Urea by ATR-FTIR Spectroscopy to Screen for CKD. <i>Kidney360</i> , 2022, 3, 357-363.	0.9	7
95	A Case of Drug-Induced Proximal Tubular Dysfunction. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2019, 14, 1384-1387.	2.2	6
96	Brain dysfunction in tubular and tubulointerstitial kidney diseases. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii46-ii55.	0.4	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). <i>Journal of Nephrology</i> , 2021, 34, 1337-1346.	0.9	5
98	The 1918 Influenza Pandemic: Back to the Future?. <i>Kidney and Blood Pressure Research</i> , 2021, 46, 1-8.	0.9	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. <i>Urolithiasis</i> , 2016, 44, 471-475.	1.2	4
100	Diet-induced iron deficiency in rats impacts small intestinal calcium and phosphate absorption. <i>Acta Physiologica</i> , 2021, 232, e13650.	1.8	4
101	Urinary acidification and distal renal tubular acidosis. <i>Journal of Nephrology</i> , 2002, 15 Suppl 5, S142-50.	0.9	4
102	Application of proteomic techniques to the study of urine and renal tissue. <i>Proteomics - Clinical Applications</i> , 2008, 2, 1564-1574.	0.8	3
103	Persistent severe polyuria after renal transplant. <i>CKJ: Clinical Kidney Journal</i> , 2016, 9, 180-183.	1.4	3
104	Obesity-Related Glomerulopathy: Hyperfiltration May Contribute to Early Proteinuria. <i>Kidney International Reports</i> , 2021, 6, 867.	0.4	3
105	Toxic nephropathy: Adverse renal effects caused by drugs. <i>European Journal of Internal Medicine</i> , 2022, 96, 20-25.	1.0	3
106	Glomerulonephritis and autoimmune vasculitis are independent of <sc>P2RX7</sc> but may depend on alternative inflammasome pathways. <i>Journal of Pathology</i> , 2022, 257, 300-313.	2.1	3
107	Physiological regulation of phosphate homeostasis. <i>Vitamins and Hormones</i> , 2022, , 47-78.	0.7	2
108	Electrolytes and acid-base: common fluid and electrolyte disorders. <i>Medicine</i> , 2011, 39, 317-324.	0.2	1

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109	Acute saccharin infusion has no effect on renal glucose handling in normal rats in vivo. <i>Physiological Reports</i> , 2018, 6, e13804.	0.7	1
110	A rare case of genetically linked primary distal renal tubular acidosis and Southeast Asian ovalocytosis. <i>Internal Medicine Journal</i> , 2020, 50, 383-385.	0.5	1
111	Interdependent expression of P2X receptors in the mouse kidney: P2X4 and P2X7 receptor cross-talk. <i>FASEB Journal</i> , 2013, 27, 884.3.	0.2	1
112	Evidence for functional P2X receptors in a mouse cortical collecting duct cell line. <i>FASEB Journal</i> , 2013, 27, 910.4.	0.2	1
113	A guide to renal stone disease. <i>Practitioner</i> , 2005, 249, 18, 20, 24 passim.	0.3	1
114	Severe hypertension due to baroreflex failure - a case presentation. <i>American Journal of Hypertension</i> , 2001, 14, A252.	1.0	0
115	Back to the future: renal tubular acidosis then and now. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2012, 105, 915-916.	0.2	0
116	Electrolytes and acid-base: common fluid and electrolyte disorders. <i>Medicine</i> , 2015, 43, 374-380.	0.2	0
117	FP446A MICROPLUNCTURE STUDY OF THE EFFECT OF SACCHARIN INFUSION ON RENAL GLUCOSE TRANSPORT IN RATS. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, iii220-iii220.	0.4	0
118	305. URINARY CELL ADHESION MOLECULES AS MARKERS OF RENAL INVOLVEMENT IN SYSTEMIC SCLEROSIS. <i>Rheumatology</i> , 2017, 56, .	0.9	0
119	SP030 FANCONI-BICKEL SYNDROME (GLYCOGENOSIS XI) A NEW POTENTIAL THERAPEUTIC APPROACH. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, i356-i356.	0.4	0
120	P2X7 receptors and klotho. <i>Purinergic Signalling</i> , 2020, 16, 151-152.	1.1	0
121	Further evidence for functional recovery of AQP2 mutations associated with nephrogenic diabetes insipidus. <i>Physiological Reports</i> , 2021, 9, e14866.	0.7	0
122	Purinergic signalling in the kidney - A beginning with Geoffrey Burnstock. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 234, 102833.	1.4	0
123	Pericyte-mediated regulation of vasa recta capillaries in situ. <i>FASEB Journal</i> , 2009, 23, 969.4.	0.2	0
124	Modulation Of Renal Glucose Transport By Sweet Taste Sensing At The Proximal Tubule Brush Border Membrane. <i>FASEB Journal</i> , 2012, 26, 1068.18.	0.2	0
125	Serine proteases affect in situ vasa recta capillary diameter: mechanism for kidney failure associated with pancreatitis?. <i>FASEB Journal</i> , 2013, 27, 1110.12.	0.2	0
126	Present and future of CONNECT: a new and compelling project of modern medicine. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, ii1-ii3.	0.4	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. <i>Diabetology and Metabolic Syndrome</i> , 2022, 14, 71.	1.2	0