

# AurÃ©lie Edwards

## List of Publications by Year in descending order

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24  
papers

799  
citations

687363

13  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling normal and nephrotic axial uptake of albumin and other filtered proteins along the proximal tubule. <i>Journal of Physiology</i> , 2022, 600, 1933-1952.	2.9	8
2	Renal blood flow and oxygenation. <i>Pflugers Archiv European Journal of Physiology</i> , 2022, 474, 759-770.	2.8	22
3	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.	2.9	12
4	Obesity-Related Glomerulopathy: Hyperfiltration May Contribute to Early Proteinuria. <i>Kidney International Reports</i> , 2021, 6, 867.	0.8	3
5	Airway Surface Liquid pH Regulation in Airway Epithelium Current Understandings and Gaps in Knowledge. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3384.	4.1	48
6	A mathematical estimation of the physical forces driving podocyte detachment. <i>Kidney International</i> , 2021, 100, 1054-1062.	5.2	8
7	Time-course of sodium transport along the nephron in nephrotic syndrome: The role of potassium. <i>FASEB Journal</i> , 2020, 34, 2408-2424.	0.5	7
8	A model of mitochondrial $O_2$ consumption and ATP generation in rat proximal tubule cells. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F248-F259.	2.7	14
9	A molecular mechanism explaining albuminuria in kidney disease. <i>Nature Metabolism</i> , 2020, 2, 461-474.	11.9	99
10	On the role of the epithelium in a model of sodium exchange in renal tubules. <i>Mathematical Biosciences</i> , 2020, 321, 108308.	1.9	2
11	Impact of angiotensin II-mediated stimulation of sodium transporters in the nephron assessed by computational modeling. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F1656-F1668.	2.7	12
12	Airway surface liquid acidification initiates host defense abnormalities in Cystic Fibrosis. <i>Scientific Reports</i> , 2019, 9, 6516.	3.3	61
13	A model of uric acid transport in the rat proximal tubule. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F934-F947.	2.7	7
14	Determinants of Hemodialysis Performance: Modeling Fluid and Solute Transport in Hollow-Fiber Dialyzers. <i>Regenerative Engineering and Translational Medicine</i> , 2019, 7, 291-300.	2.9	5
15	Renal potassium handling in rats with subtotal nephrectomy: modeling and analysis. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F643-F657.	2.7	34
16	A model of calcium transport and regulation in the proximal tubule. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F942-F953.	2.7	30
17	Cell Volume Regulation in the Proximal Tubule of Rat Kidney. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 2512-2533.	1.9	8
18	A computational model for simulating solute transport and oxygen consumption along the nephrons. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F1378-F1390.	2.7	74

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19	Predicted consequences of diabetes and SGLT inhibition on transport and oxygen consumption along a rat nephron. American Journal of Physiology - Renal Physiology, 2016, 310, F1269-F1283.	2.7	118
20	Impact of nitric-oxide-mediated vasodilation and oxidative stress on renal medullary oxygenation: a modeling study. American Journal of Physiology - Renal Physiology, 2016, 310, F237-F247.	2.7	30
21	Modeling oxygen consumption in the proximal tubule: effects of NHE and SGLT2 inhibition. American Journal of Physiology - Renal Physiology, 2015, 308, F1343-F1357.	2.7	110
22	A model of calcium transport along the rat nephron. American Journal of Physiology - Renal Physiology, 2013, 305, F979-F994.	2.7	18
23	Interstitial water and solute recovery by inner medullary vasa recta. American Journal of Physiology - Renal Physiology, 2000, 278, F257-F269.	2.7	26
24	Ultrastructural model for size selectivity in glomerular filtration. American Journal of Physiology - Renal Physiology, 1999, 276, F892-F902.	2.7	38