AurÃ©lie Edwards

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3987330/publications.pdf

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24	799	687363 13	580821 25
papers	citations	h-index	g-index

25	25	25	825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	A molecular mechanism explaining albuminuria in kidney disease. Nature Metabolism, 2020, 2, 461-474.	11.9	99
4	A computational model for simulating solute transport and oxygen consumption along the nephrons. American Journal of Physiology - Renal Physiology, 2016, 311, F1378-F1390.	2.7	74
5	Airway surface liquid acidification initiates host defense abnormalities in Cystic Fibrosis. Scientific Reports, 2019, 9, 6516.	3.3	61
6	Airway Surface Liquid pH Regulation in Airway Epithelium Current Understandings and Gaps in Knowledge. International Journal of Molecular Sciences, 2021, 22, 3384.	4.1	48
7	Ultrastructural model for size selectivity in glomerular filtration. American Journal of Physiology - Renal Physiology, 1999, 276, F892-F902.	2.7	38
8	Renal potassium handling in rats with subtotal nephrectomy: modeling and analysis. American Journal of Physiology - Renal Physiology, 2018, 314, F643-F657.	2.7	34
9	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
10	A model of calcium transport and regulation in the proximal tubule. American Journal of Physiology - Renal Physiology, 2018, 315, F942-F953.	2.7	30
11	Interstitial water and solute recovery by inner medullary vasa recta. American Journal of Physiology - Renal Physiology, 2000, 278, F257-F269.	2.7	26
12	Renal blood flow and oxygenation. Pflugers Archiv European Journal of Physiology, 2022, 474, 759-770.	2.8	22
13	A model of calcium transport along the rat nephron. American Journal of Physiology - Renal Physiology, 2013, 305, F979-F994.	2.7	18
14	A model of mitochondrial O₂consumption and ATP generation in rat proximal tubule cells. American Journal of Physiology - Renal Physiology, 2020, 318, F248-F259.	2.7	14
15	Impact of angiotensin II-mediated stimulation of sodium transporters in the nephron assessed by computational modeling. American Journal of Physiology - Renal Physiology, 2019, 317, F1656-F1668.	2.7	12
16	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
17	Cell Volume Regulation in the Proximal Tubule of Rat Kidney. Bulletin of Mathematical Biology, 2017, 79, 2512-2533.	1.9	8
18	A mathematical estimation of the physical forces driving podocyte detachment. Kidney International, 2021, 100, 1054-1062.	5.2	8

#	Article	IF	Citations
19	Modelling normal and nephrotic axial uptake of albumin and other filtered proteins along the proximal tubule. Journal of Physiology, 2022, 600, 1933-1952.	2.9	8
20	A model of uric acid transport in the rat proximal tubule. American Journal of Physiology - Renal Physiology, 2019, 316, F934-F947.	2.7	7
21	Timeâ€course of sodium transport along the nephron in nephrotic syndrome: The role of potassium. FASEB Journal, 2020, 34, 2408-2424.	0.5	7
22	Determinants of Hemodialysis Performance:Modeling Fluid and Solute Transport in Hollow-Fiber Dialyzers. Regenerative Engineering and Translational Medicine, 2019, 7, 291-300.	2.9	5
23	Obesity-Related Glomerulopathy: Hyperfiltration May Contribute to Early Proteinuria. Kidney International Reports, 2021, 6, 867.	0.8	3
24	On the role of the epithelium in a model of sodium exchange in renal tubules. Mathematical Biosciences, 2020, 321, 108308.	1.9	2