

Tarek M El-Achkar

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,662
citations

218677

26
h-index

214800

47
g-index

81
all docs

81
docs citations

81
times ranked

2679
citing authors

#	ARTICLE	IF	CITATIONS
1	Rate of Kidney Function Decline Associates with Mortality. Journal of the American Society of Nephrology: JASN, 2010, 21, 1961-1969.	6.1	161
2	Higher prevalence of anemia with diabetes mellitus in moderate kidney insufficiency: The Kidney Early Evaluation Program. Kidney International, 2005, 67, 1483-1488.	5.2	145
3	Tamm-Horsfall protein protects the kidney from ischemic injury by decreasing inflammation and altering TLR4 expression. American Journal of Physiology - Renal Physiology, 2008, 295, F534-F544.	2.7	142
4	Early Nephrologist Involvement in Hospital-Acquired Acute Kidney Injury: A Pilot Study. American Journal of Kidney Diseases, 2011, 57, 228-234.	1.9	140
5	Sepsis induces changes in the expression and distribution of Toll-like receptor 4 in the rat kidney. American Journal of Physiology - Renal Physiology, 2006, 290, F1034-F1043.	2.7	139
6	Endotoxin Uptake by S1 Proximal Tubular Segment Causes Oxidative Stress in the Downstream S2 Segment. Journal of the American Society of Nephrology: JASN, 2011, 22, 1505-1516.	6.1	139
7	Tamm-Horsfall protein translocates to the basolateral domain of thick ascending limbs, interstitium, and circulation during recovery from acute kidney injury. American Journal of Physiology - Renal Physiology, 2013, 304, F1066-F1075.	2.7	105
8	Uromodulin in Kidney Injury: An Instigator, Bystander, or Protector?. American Journal of Kidney Diseases, 2012, 59, 452-461.	1.9	95
9	Rationale and design of the Kidney Precision Medicine Project. Kidney International, 2021, 99, 498-510.	5.2	94
10	Integration of spatial and single-cell transcriptomics localizes epithelial cell-immune cross-talk in kidney injury. JCI Insight, 2021, 6, .	5.0	83
11	The orchestrated cellular and molecular responses of the kidney to endotoxin define a precise sepsis timeline. ELife, 2021, 10, .	6.0	78
12	Tamm-Horsfall protein-deficient thick ascending limbs promote injury to neighboring S3 segments in an MIP-2-dependent mechanism. American Journal of Physiology - Renal Physiology, 2011, 300, F999-F1007.	2.7	72
13	Uromodulin (Tamm-Horsfall protein): guardian of urinary and systemic homeostasis. Nephrology Dialysis Transplantation, 2020, 35, 33-43.	0.7	71
14	Tamm-Horsfall Protein Regulates Mononuclear Phagocytes in the Kidney. Journal of the American Society of Nephrology: JASN, 2018, 29, 841-856.	6.1	70
15	A reference tissue atlas for the human kidney. Science Advances, 2022, 8, .	10.3	67
16	Circulating uromodulin inhibits systemic oxidative stress by inactivating the TRPM2 channel. Science Translational Medicine, 2019, 11, .	12.4	66
17	Quantitative Three-Dimensional Tissue Cytometry to Study Kidney Tissue and Resident Immune Cells. Journal of the American Society of Nephrology: JASN, 2017, 28, 2108-2118.	6.1	63
18	A multimodal and integrated approach to interrogate human kidney biopsies with rigor and reproducibility: guidelines from the Kidney Precision Medicine Project. Physiological Genomics, 2021, 53, 1-11.	2.3	59

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19	Sepsis induces an increase in thick ascending limb Cox-2 that is TLR4 dependent. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F1187-F1196.	2.7	55
20	Renal Toll-like receptors: recent advances and implications for disease. <i>Nature Clinical Practice Nephrology</i> , 2006, 2, 568-581.	2.0	51
21	Tamm-Horsfall Protein Regulates Granulopoiesis and Systemic Neutrophil Homeostasis. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 2172-2182.	6.1	51
22	Association of Preoperative Urinary Uromodulin with AKI after Cardiac Surgery. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2017, 12, 10-18.	4.5	48
23	Tamm-Horsfall Protein Regulates Circulating and Renal Cytokines by Affecting Glomerular Filtration Rate and Acting as a Urinary Cytokine Trap. <i>Journal of Biological Chemistry</i> , 2012, 287, 16365-16378.	3.4	43
24	Kidney Histopathology and Prediction of Kidney Failure: A Retrospective Cohort Study. <i>American Journal of Kidney Diseases</i> , 2020, 76, 350-360.	1.9	38
25	Tubular cross talk in acute kidney injury: a story of sense and sensibility. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F1317-F1323.	2.7	36
26	Molecular characterization of the human kidney interstitium in health and disease. <i>Science Advances</i> , 2021, 7, .	10.3	33
27	Sisters in arms: myeloid and tubular epithelial cells shape renal innate immunity. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F1243-F1251.	2.7	28
28	Tamm-Horsfall protein/uromodulin deficiency elicits tubular compensatory responses leading to hypertension and hyperuricemia. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F1062-F1076.	2.7	28
29	Molecular and Cellular Effects of Tamm-Horsfall Protein Mutations and Their Rescue by Chemical Chaperones. <i>Journal of Biological Chemistry</i> , 2012, 287, 1290-1305.	3.4	26
30	Endotoxin Preconditioning Reprograms S1 Tubules and Macrophages to Protect the Kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 104-117.	6.1	25
31	Large-scale 3-dimensional quantitative imaging of tissues: state-of-the-art and translational implications. <i>Translational Research</i> , 2017, 189, 1-12.	5.0	23
32	Cadherin-11, Sparc-related modular calcium binding protein-2, and Pigment epithelium-derived factor are promising non-invasive biomarkers of kidney fibrosis. <i>Kidney International</i> , 2021, 100, 672-683.	5.2	21
33	Large-scale, three-dimensional tissue cytometry of the human kidney: a complete and accessible pipeline. <i>Laboratory Investigation</i> , 2021, 101, 661-676.	3.7	21
34	A Precision Medicine Approach Uncovers a Unique Signature of Neutrophils in Patients With Brushite Kidney Stones. <i>Kidney International Reports</i> , 2020, 5, 663-677.	0.8	19
35	In Situ Classification of Cell Types in Human Kidney Tissue Using 3D Nuclear Staining. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 99, 707-721.	1.5	15
36	Multimodal imaging reveals a unique autofluorescence signature of Randall's plaque. <i>Urolithiasis</i> , 2021, 49, 123-135.	2.0	15

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37	Point mutation in D8C domain of Tamm-Horsfall protein/uromodulin in transgenic mice causes progressive renal damage and hyperuricemia. PLoS ONE, 2017, 12, e0186769.	2.5	14
38	Development and Validation of a Model to Predict Acute Kidney Injury in Hospitalized Patients With Cirrhosis. Clinical and Translational Gastroenterology, 2019, 10, e00075.	2.5	14
39	An Intricate Network of Conserved DNA Upstream Motifs and Associated Transcription Factors Regulate the Expression of Uromodulin Gene. Journal of Urology, 2014, 192, 981-989.	0.4	12
40	Hospital-Acquired Versus Community-Acquired Acute Kidney Injury in Patients With Cirrhosis: A Prospective Study. American Journal of Gastroenterology, 2020, 115, 1505-1512.	0.4	12
41	The kidney protects against sepsis by producing systemic uromodulin. American Journal of Physiology - Renal Physiology, 2022, 323, F212-F226.	2.7	12
42	Admission plasma uromodulin and the risk of acute kidney injury in hospitalized patients with cirrhosis: a pilot study. American Journal of Physiology - Renal Physiology, 2019, 317, G447-G452.	3.4	10
43	Targeting fibroblast growth factor 23-responsive pathways uncovers controlling genes in kidney mineral metabolism. Kidney International, 2021, 99, 598-608.	5.2	10
44	Uromodulin to Osteopontin Ratio in Deceased Donor Urine Is Associated With Kidney Graft Outcomes. Transplantation, 2021, 105, 876-885.	1.0	10
45	VEGFR3 tyrosine kinase inhibition aggravates cisplatin nephrotoxicity. American Journal of Physiology - Renal Physiology, 2021, 321, F675-F688.	2.7	10
46	The kidney releases a nonpolymerizing form of uromodulin in the urine and circulation that retains the external hydrophobic patch domain. American Journal of Physiology - Renal Physiology, 2022, 322, F403-F418.	2.7	10
47	The Role of Tumor Necrosis Factor Alpha in Regulating the Expression of Tamm-Horsfall Protein (Uromodulin) in Thick Ascending Limbs during Kidney Injury. American Journal of Nephrology, 2014, 40, 458-467.	3.1	9
48	Immunofluorescence laser micro-dissection of specific nephron segments in the mouse kidney allows targeted downstream proteomic analysis. Physiological Reports, 2015, 3, e12306.	1.7	9
49	Quantitative Large-Scale Three-Dimensional Imaging of Human Kidney Biopsies: A Bridge to Precision Medicine in Kidney Disease. Nephron, 2018, 140, 134-139.	1.8	9
50	Application of Laser Microdissection to Uncover Regional Transcriptomics in Human Kidney Tissue. Journal of Visualized Experiments, 2020, , .	0.3	9
51	Acute kidney injury after cardiac surgery: is minocycline protective?. Journal of Nephrology, 2015, 28, 193-199.	2.0	8
52	Modulation of apoptosis by ischemic preconditioning: an emerging role for miR-21. Kidney International, 2012, 82, 1149-1151.	5.2	7
53	<i>In Vivo</i> siRNA Delivery and Rebound of Renal LRP2 in Mice. Journal of Drug Delivery, 2017, 2017, 1-12.	2.5	7
54	Pretransplant Serum Uromodulin and Its Association with Delayed Graft Function Following Kidney Transplantation—A Prospective Cohort Study. Journal of Clinical Medicine, 2021, 10, 2586.	2.4	7

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55	A mouse model of Townes-Brocks syndrome expressing a truncated mutant Sall1 protein is protected from acute kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F852-F863.	2.7	6
56	Quantitative 3-dimensional imaging and tissue cytometry reveals lymphatic expansion in acute kidney injury. <i>Laboratory Investigation</i> , 2021, 101, 1186-1196.	3.7	6
57	Alterations in Protein Translation and Carboxylic Acid Catabolic Processes in Diabetic Kidney Disease. <i>Cells</i> , 2022, 11, 1166.	4.1	6
58	Demineralization and sectioning of human kidney stones: A molecular investigation revealing the spatial heterogeneity of the stone matrix. <i>Physiological Reports</i> , 2021, 9, e14658.	1.7	5
59	Profiling immune cells in the kidney using tissue cytometry and machine learning. <i>Kidney360</i> , 0, , 10.34067/KID.0006802020.	2.1	5
60	Human jackstone arms show a protein-rich, X-ray lucent core, suggesting that proteins drive their rapid and linear growth. <i>Urolithiasis</i> , 2022, 50, 21-28.	2.0	3
61	Label-free imaging of non-deparaffinized sections of the human kidney to determine tissue quality and signatures of disease. <i>Physiological Reports</i> , 2022, 10, e15167.	1.7	3
62	Tissue Cytometry With Machine Learning in Kidney: From Small Specimens to Big Data. <i>Frontiers in Physiology</i> , 2022, 13, 832457.	2.8	3
63	Autosomal dominant tubulointerstitial kidney disease: a new tool to guide genetic testing. <i>Kidney International</i> , 2020, 98, 549-552.	5.2	2
64	Clinical, histopathologic and molecular features of idiopathic and diabetic nodular mesangial sclerosis in humans. <i>Nephrology Dialysis Transplantation</i> , 2021, 37, 72-84.	0.7	2
65	Collagen fibrils and cell nuclei are entrapped within Randall's plaques but not in CaOx matrix overgrowth: A microscopic inquiry into Randall's plaque stone pathogenesis. <i>Anatomical Record</i> , 2022, 305, 1701-1711.	1.4	2
66	Stone Morphology Distinguishes Two Pathways of Idiopathic Calcium Oxalate Stone Pathogenesis. <i>Journal of Endourology</i> , 2022, 36, 694-702.	2.1	2
67	Cellular and molecular interrogation of kidney biopsy specimens. <i>Current Opinion in Nephrology and Hypertension</i> , 2022, 31, 160-167.	2.0	2
68	Increased Urinary Leukocyte Esterase Distinguishes Patients With Brushite Kidney Stones. <i>Kidney International Reports</i> , 2021, 6, 1729-1731.	0.8	1