

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	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
2	Collagen fibrils and cell nuclei are entrapped within Randall's plaques but not in <scp>CaOx</scp> matrix overgrowth: A microscopic inquiry into Randall's plaque stone pathogenesis. <i>Anatomical Record</i> , 2022, 305, 1701-1711.	1.4	2
3	Stone Morphology Distinguishes Two Pathways of Idiopathic Calcium Oxalate Stone Pathogenesis. <i>Journal of Endourology</i> , 2022, 36, 694-702.	2.1	2
4	The kidney releases a nonpolymerizing form of uromodulin in the urine and circulation that retains the external hydrophobic patch domain. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 322, F403-F418.	2.7	10
5	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
6	Alterations in Protein Translation and Carboxylic Acid Catabolic Processes in Diabetic Kidney Disease. <i>Cells</i> , 2022, 11, 1166.	4.1	6
7	Tissue Cytometry With Machine Learning in Kidney: From Small Specimens to Big Data. <i>Frontiers in Physiology</i> , 2022, 13, 832457.	2.8	3
8	Cellular and molecular interrogation of kidney biopsy specimens. <i>Current Opinion in Nephrology and Hypertension</i> , 2022, 31, 160-167.	2.0	2
9	A reference tissue atlas for the human kidney. <i>Science Advances</i> , 2022, 8, .	10.3	67
10	The kidney protects against sepsis by producing systemic uromodulin. <i>American Journal of Physiology - Renal Physiology</i> , 2022, 323, F212-F226.	2.7	12
11	Targeting fibroblast growth factor 23-responsive pathways uncovers controlling genes in kidney mineral metabolism. <i>Kidney International</i> , 2021, 99, 598-608.	5.2	10
12	Multimodal imaging reveals a unique autofluorescence signature of Randall's plaque. <i>Urolithiasis</i> , 2021, 49, 123-135.	2.0	15
13	A multimodal and integrated approach to interrogate human kidney biopsies with rigor and reproducibility: guidelines from the Kidney Precision Medicine Project. <i>Physiological Genomics</i> , 2021, 53, 1-11.	2.3	59
14	Rationale and design of the Kidney Precision Medicine Project. <i>Kidney International</i> , 2021, 99, 498-510.	5.2	94
15	The orchestrated cellular and molecular responses of the kidney to endotoxin define a precise sepsis timeline. <i>ELife</i> , 2021, 10, .	6.0	78
16	Deminerlization 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
17	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
18	Molecular characterization of the human kidney interstitium in health and disease. <i>Science Advances</i> , 2021, 7, .	10.3	33

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19	Increased Urinary Leukocyte Esterase Distinguishes Patients With Brushite Kidney Stones. <i>Kidney International Reports</i> , 2021, 6, 1729-1731.	0.8	1
20	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
21	Pretransplant Serum Uromodulin and Its Association with Delayed Graft Function Following Kidney Transplantation—A Prospective Cohort Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 2586.	2.4	7
22	Integration of spatial and single-cell transcriptomics localizes epithelial cell–immune cross-talk in kidney injury. <i>JCI Insight</i> , 2021, 6, .	5.0	83
23	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
24	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
25	Uromodulin to Osteopontin Ratio in Deceased Donor Urine Is Associated With Kidney Graft Outcomes. <i>Transplantation</i> , 2021, 105, 876-885.	1.0	10
26	VEGFR3 tyrosine kinase inhibition aggravates cisplatin nephrotoxicity. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, F675-F688.	2.7	10
27	Uromodulin (Tamm–Horsfall protein): guardian of urinary and systemic homeostasis. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 33-43.	0.7	71
28	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
29	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
30	Autosomal dominant tubulointerstitial kidney disease: a new tool to guide genetic testing. <i>Kidney International</i> , 2020, 98, 549-552.	5.2	2
31	Hospital-Acquired Versus Community-Acquired Acute Kidney Injury in Patients With Cirrhosis: A Prospective Study. <i>American Journal of Gastroenterology</i> , 2020, 115, 1505-1512.	0.4	12
32	Application of Laser Microdissection to Uncover Regional Transcriptomics in Human Kidney Tissue. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	9
33	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
34	Admission plasma uromodulin and the risk of acute kidney injury in hospitalized patients with cirrhosis: a pilot study. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, G447-G452.	3.4	10
35	Circulating uromodulin inhibits systemic oxidative stress by inactivating the TRPM2 channel. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	66
36	Development and Validation of a Model to Predict Acute Kidney Injury in Hospitalized Patients With Cirrhosis. <i>Clinical and Translational Gastroenterology</i> , 2019, 10, e00075.	2.5	14

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37	Endotoxin Preconditioning Reprograms S1 Tubules and Macrophages to Protect the Kidney. Journal of the American Society of Nephrology: JASN, 2018, 29, 104-117.	6.1	25
38	Tamm-Horsfall Protein Regulates Mononuclear Phagocytes in the Kidney. Journal of the American Society of Nephrology: JASN, 2018, 29, 841-856.	6.1	70
39	Tamm-Horsfall protein/uromodulin deficiency elicits tubular compensatory responses leading to hypertension and hyperuricemia. American Journal of Physiology - Renal Physiology, 2018, 314, F1062-F1076.	2.7	28
40	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
41	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
42	Large-scale 3-dimensional quantitative imaging of tissues: state-of-the-art and translational implications. Translational Research, 2017, 189, 1-12.	5.0	23
43	Association of Preoperative Urinary Uromodulin with AKI after Cardiac Surgery. Clinical Journal of the American Society of Nephrology: CJASN, 2017, 12, 10-18.	4.5	48
44	<i>In Vivo</i> siRNA Delivery and Rebound of Renal LRP2 in Mice. Journal of Drug Delivery, 2017, 2017, 1-12.	2.5	7
45	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
46	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
47	A mouse model of Townes-Brocks syndrome expressing a truncated mutant Sall1 protein is protected from acute kidney injury. American Journal of Physiology - Renal Physiology, 2015, 309, F852-F863.	2.7	6
48	Tamm-Horsfall Protein Regulates Granulopoiesis and Systemic Neutrophil Homeostasis. Journal of the American Society of Nephrology: JASN, 2015, 26, 2172-2182.	6.1	51
49	Acute kidney injury after cardiac surgery: is minocycline protective?. Journal of Nephrology, 2015, 28, 193-199.	2.0	8
50	Tubular cross talk in acute kidney injury: a story of sense and sensibility. American Journal of Physiology - Renal Physiology, 2015, 308, F1317-F1323.	2.7	36
51	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
52	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
53	Sisters in arms: myeloid and tubular epithelial cells shape renal innate immunity. American Journal of Physiology - Renal Physiology, 2013, 304, F1243-F1251.	2.7	28
54	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

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55	Modulation of apoptosis by ischemic preconditioning: an emerging role for miR-21. <i>Kidney International</i> , 2012, 82, 1149-1151.	5.2	7
56	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
57	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
58	Uromodulin in Kidney Injury: An Instigator, Bystander, or Protector?. <i>American Journal of Kidney Diseases</i> , 2012, 59, 452-461.	1.9	95
59	Early Nephrologist Involvement in Hospital-Acquired Acute Kidney Injury: A Pilot Study. <i>American Journal of Kidney Diseases</i> , 2011, 57, 228-234.	1.9	140
60	Endotoxin Uptake by S1 Proximal Tubular Segment Causes Oxidative Stress in the Downstream S2 Segment. <i>Journal of the American Society of Nephrology: JASN</i> , 2011, 22, 1505-1516.	6.1	139
61	Tamm-Horsfall protein-deficient thick ascending limbs promote injury to neighboring S3 segments in an MIP-2-dependent mechanism. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, F999-F1007.	2.7	72
62	Rate of Kidney Function Decline Associates with Mortality. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 1961-1969.	6.1	161
63	Tamm-Horsfall protein protects the kidney from ischemic injury by decreasing inflammation and altering TLR4 expression. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F534-F544.	2.7	142
64	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
65	Renal Toll-like receptors: recent advances and implications for disease. <i>Nature Clinical Practice Nephrology</i> , 2006, 2, 568-581.	2.0	51
66	Sepsis induces changes in the expression and distribution of Toll-like receptor 4 in the rat kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F1034-F1043.	2.7	139
67	Higher prevalence of anemia with diabetes mellitus in moderate kidney insufficiency: The Kidney Early Evaluation Program. <i>Kidney International</i> , 2005, 67, 1483-1488.	5.2	145
68	Profiling immune cells in the kidney using tissue cytometry and machine learning. <i>Kidney360</i> , 0, , 10.34067/KID.0006802020.	2.1	5