M Todd Valerius

List of Publications by Year
in descending order

45 papers	8,083 citations	159585 30 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	8612 citing authors

#	Article	IF	Citations
1	Fate Tracing Reveals the Pericyte and Not Epithelial Origin of Myofibroblasts in Kidney Fibrosis. American Journal of Pathology, 2010, 176, 85-97.	3.8	1,281
2	Six2 Defines and Regulates a Multipotent Self-Renewing Nephron Progenitor Population throughout Mammalian Kidney Development. Cell Stem Cell, 2008, 3, 169-181.	11.1	815
3	Intrinsic Epithelial Cells Repair the Kidney after Injury. Cell Stem Cell, 2008, 2, 284-291.	11.1	752
4	Nephron organoids derived from human pluripotent stem cells model kidney development and injury. Nature Biotechnology, 2015, 33, 1193-1200.	17.5	694
5	Modelling kidney disease with CRISPR-mutant kidney organoids derived from human pluripotent epiblast spheroids. Nature Communications, 2015, 6, 8715.	12.8	571
6	Flow-enhanced vascularization and maturation of kidney organoids in vitro. Nature Methods, 2019, 16, 255-262.	19.0	559
7	Mouse Brain Organization Revealed Through Direct Genome-Scale TF Expression Analysis. Science, 2004, 306, 2255-2257.	12.6	390
8	Wnt/Î²-catenin signaling regulates nephron induction during mouse kidney development. Development (Cambridge), 2007, 134, 2533-2539.	2.5	319
9	Notch2, but not Notch1, is required for proximal fate acquisition in the mammalian nephron. Development (Cambridge), 2007, 134, 801-811.	2.5	310
10	Rapid and Efficient Differentiation of Human Pluripotent Stem Cells into Intermediate Mesoderm That Forms Tubules Expressing Kidney Proximal Tubular Markers. Journal of the American Society of Nephrology: JASN, 2014, 25, 1211-1225.	6.1	271
11	Six2 and Wnt Regulate Self-Renewal and Commitment of Nephron Progenitors through Shared Gene Regulatory Networks. Developmental Cell, 2012, 23, 637-651.	7.0	229
12	Analysis of early nephron patterning reveals a role for distal RV proliferation in fusion to the ureteric tip via a cap mesenchyme-derived connecting segment. Developmental Biology, 2009, 332, 273-286.	2.0	221
13	Atlas of Gene Expression in the Developing Kidney at Microanatomic Resolution. Developmental Cell, 2008, 15, 781-791.	7.0	196
14	Dicer regulates the development of nephrogenic and ureteric compartments in the mammalian kidney. Kidney International, 2011, 79, 317-330.	5.2	147
15	A high-resolution anatomical ontology of the developing murine genitourinary tract. Gene Expression Patterns, 2007, 7, 680-699.	0.8	125
16	IL-34 mediates acute kidney injury and worsens subsequent chronic kidney disease. Journal of Clinical Investigation, 2015, 125, 3198-3214.	8.2	108
17	Gsh-1: A novel murine homeobox gene expressed in the central nervous system. Developmental Dynamics, 1995, 203, 337-351.	1.8	101
18	Recent genetic studies of mouse kidney development. Current Opinion in Genetics and Development, 2004, 14, 550-557.	3.3	93

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19	Notch pathway activation can replace the requirement for Wnt4 and Wnt9b in mesenchymal-to-epithelial transition of nephron stem cells. Development (Cambridge), 2011, 138, 4245-4254.	2.5	81
20	Microarray analysis of novel cell lines representing two stages of metanephric mesenchyme differentiation. Mechanisms of Development, 2002, 112, 219-232.	1.7	72
21	Anatomical structures, cell types and biomarkers of the Human Reference Atlas. Nature Cell Biology, 2021, 23, 1117-1128.	10.3	68
22	A reference tissue atlas for the human kidney. Science Advances, 2022, 8, .	10.3	67
23	Repression of Interstitial Identity in Nephron Progenitor Cells by Pax2 Establishes the Nephron-Interstitium Boundary during Kidney Development. Developmental Cell, 2017, 41, 349-365.e3.	7.0	61
24	Enhancer and super-enhancer dynamics in repair after ischemic acute kidney injury. Nature Communications, 2020, 11, 3383.	12.8	61
25	(Re)Building a Kidney. Journal of the American Society of Nephrology: JASN, 2017, 28, 1370-1378.	6.1	58
26	Identification of molecular compartments and genetic circuitry in the developing mammalian kidney. Development (Cambridge), 2012, 139, 1863-1873.	2.5	51
27	Microarray analysis of novel cell lines representing two stages of metanephric mesenchyme differentiation. Mechanisms of Development, 2002, 110, 151-164.	1.7	50
28	Orphan Nuclear Receptor Nur77 Promotes Acute Kidney Injury and Renal Epithelial Apoptosis. Journal of the American Society of Nephrology: JASN, 2012, 23, 674-686.	6.1	45
29	Modelling kidney disease using ontology: insights from the Kidney Precision Medicine Project. Nature Reviews Nephrology, 2020, 16, 686-696.	9.6	45
30	<i>Hoxa 11</i>is upstream of<i>Integrin</i>Î±<i>8</i>expression in the developing kidney. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8090-8095.	7.1	40
31	Disparate levels of beta-catenin activity determine nephron progenitor cell fate. Developmental Biology, 2018, 440, 13-21.	2.0	33
32	Transcriptional profiling of Wnt4 mutant mouse kidneys identifies genes expressed during nephron formation. Gene Expression Patterns, 2008, 8, 297-306.	0.8	22
33	Kidney repair and regeneration: perspectives of the NIDDK (Re)Building a Kidney consortium. Kidney International, 2022, 101, 845-853.	5.2	22
34	Cadherin-11, Sparc-related modular calcium binding protein-2, and Pigment epithelium-derived factor are promising non-invasive biomarkers of kidney fibrosis. Kidney International, 2021, 100, 672-683.	5.2	21
35	SOCS2 Balances Metabolic and Restorative Requirements during Liver Regeneration. Journal of Biological Chemistry, 2016, 291, 3346-3358.	3.4	19
36	A Genome-Wide Screen to Identify Transcription Factors Expressed in Pelvic Ganglia of the Lower Urinary Tract. Frontiers in Neuroscience, 2012, 6, 130.	2.8	17

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37	Orphan nuclear receptor COUPâ€TFII enhances myofibroblast glycolysis leading to kidney fibrosis. EMBO Reports, 2021, 22, e51169.	4.5	16
38	Node retraction during patterning of the urinary collecting duct system. Journal of Anatomy, 2015, 226, 13-21.	1.5	13
39	CRISPR/Cas9â€based Targeted Genome Editing for the Development of Monogenic Diseases Models with Human Pluripotent Stem Cells. Current Protocols in Stem Cell Biology, 2018, 45, e50.	3.0	11
40	Repair after nephron ablation reveals limitations of neonatal neonephrogenesis. JCI Insight, 2017, 2, e88848.	5.0	11
41	Bowman'sÎ²-Catenin. Journal of the American Society of Nephrology: JASN, 2012, 23, 3-4.	6.1	5
42	Atlas of Gene Expression in the Developing Kidney at Microanatomic Resolution. Developmental Cell, 2009, 16, 482.	7.0	2
43	Using Progenitor Cells and Gene Chips to Define Genetic Pathways. , 2002, 185, 269-284.		2
44	The Rejection Barrier to Induced Pluripotent Stem Cells. Journal of the American Society of Nephrology: JASN, 2011, 22, 1583-1586.	6.1	0
45	Human Kidney Organoids. Transplantation, 2016, 100, 1171-1172.	1.0	0