Susan E Quaggin

List of Publications by Year
in descending order

89 papers	8,905 citations	61984 43 h-index	64796 79 g-index
99 all docs	99 docs citations	99 times ranked	10194 citing authors

#	Article	IF	Citations
1	VEGF Inhibition and Renal Thrombotic Microangiopathy. New England Journal of Medicine, 2008, 358, 1129-1136.	27.0	1,348
2	Glomerular-specific alterations of VEGF-A expression lead to distinct congenital and acquired renal diseases. Journal of Clinical Investigation, 2003, 111, 707-716.	8.2	1,100
3	Insulin Signaling to the Glomerular Podocyte Is Critical for Normal Kidney Function. Cell Metabolism, 2010, 12, 329-340.	16.2	376
4	Angiopoietin-1 is essential in mouse vasculature during development and in response to injury. Journal of Clinical Investigation, 2011, 121, 2278-2289.	8.2	362
5	Conditional and inducible transgene expression in mice through the combinatorial use of Cre-mediated recombination and tetracycline induction. Nucleic Acids Research, 2005, 33, e51-e51.	14.5	317
6	The cell biology of renal filtration. Journal of Cell Biology, 2015, 209, 199-210.	5.2	270
7	Glomerular Structure and Function Require Paracrine, Not Autocrine, VEGFâ€“VEGFR-2 Signaling. Journal of the American Society of Nephrology: JASN, 2010, 21, 1691-1701.	6.1	236
8	Vascular Endothelial Growth Factor A Signaling in the Podocyte-Endothelial Compartment Is Required for Mesangial Cell Migration and Survival. Journal of the American Society of Nephrology: JASN, 2006, 17, 724-735.	6.1	217
9	Epidermal growth factor receptor promotes glomerular injury and renal failure in rapidly progressive crescentic glomerulonephritis. Nature Medicine, 2011, 17, 1242-1250.	30.7	204
10	Development of the renal glomerulus: good neighbors and good fences. Development (Cambridge), 2008, 135, 609-620.	2.5	199
11	Large-scale identification of genes implicated in kidney glomerulus development and function. EMBO Journal, 2006, 25, 1160-1174.	7.8	196
12	Angiopoietin receptor TEK mutations underlie primary congenital glaucoma with variable expressivity. Journal of Clinical Investigation, 2016, 126, 2575-2587.	8.2	175
13	Role of the VEGF-A Signaling Pathway in the Glomerulus: Evidence for Crosstalk between Components of the Glomerular Filtration Barrier. Nephron Physiology, 2007, 106, p32-p37.	1.2	169
14	Scar wars: mapping the fate of epithelialâ€“mesenchymalâ€“myofibroblast transition. Kidney International, 2011, 80, 41-50.	5.2	166
15	The role of VEGF-A in glomerular development and function. Current Opinion in Nephrology and Hypertension, 2004, 13, 9-15.	2.0	152
16	A lymphatic defect causes ocular hypertension and glaucoma in mice. Journal of Clinical Investigation, 2014, 124, 4320-4324.	8.2	151
17	Pod-1, a mesoderm-specific basic-helix-loop-helix protein expressed in mesenchymal and glomerular epithelial cells in the developing kidney. Mechanisms of Development, 1998, 71, 37-48.	1.7	148
18	Disrupted gonadogenesis and male-to-female sex reversal inPod1knockout mice. Development (Cambridge), 2004, 131, 4095-4105.	2.5	148

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19	Soluble FLT1 Binds Lipid Microdomains in Podocytes to Control Cell Morphology and Glomerular Barrier Function. Cell, 2012, 151, 384-399.	28.9	144
20	COVID-19â€“Associated Glomerular Disease. Journal of the American Society of Nephrology: JASN, 2021, 32, 33-40.	6.1	141
21	PAI-1â€“regulated extracellular proteolysis governs senescence and survival in Klotho mice. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7090-7095.	7.1	135
22	The Glomerulus. Clinical Journal of the American Society of Nephrology: CJASN, 2014, 9, 1461-1469.	4.5	133
23	Tubulovascular Cross-Talk by Vascular Endothelial Growth Factor A Maintains Peritubular Microvasculature in Kidney. Journal of the American Society of Nephrology: JASN, 2015, 26, 1027-1038.	6.1	127
24	The Mouse Kreisler (Krml1/MafB) Segmentation Gene Is Required for Differentiation of Glomerular Visceral Epithelial Cells. Developmental Biology, 2002, 249, 16-29.	2.0	123
25	Vegfa Protects the Glomerular Microvasculature in Diabetes. Diabetes, 2012, 61, 2958-2966.	0.6	123
26	Single-Cell Analysis of Blood-Brain Barrier Response to Pericyte Loss. Circulation Research, 2021, 128, e46-e62.	4.5	98
27	Pod1 is required in stromal cells for glomerulogenesis. Developmental Dynamics, 2003, 226, 512-522.	1.8	94
28	Novel ACE2-Fc chimeric fusion provides long-lasting hypertension control and organ protection in mouse models of systemic renin angiotensin system activation. Kidney International, 2018, 94, 114-125.	5.2	94
29	Angiopoietin-1 is required for Schlemmâ€™s canal development in mice and humans. Journal of Clinical Investigation, 2017, 127, 4421-4436.	8.2	94
30	How Do Mesangial and Endothelial Cells Form the Glomerular Tuft?. Journal of the American Society of Nephrology: JASN, 2008, 19, 24-33.	6.1	92
31	Glomerular-Specific Gene Excision In Vivo. Journal of the American Society of Nephrology: JASN, 2002, 13, 788-793.	6.1	90
32	Vascular Growth Factors and Glomerular Disease. Annual Review of Physiology, 2016, 78, 437-461.	13.1	89
33	Context-dependent functions of angiopoietin 2 are determined by the endothelial phosphatase VEPTP. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1298-1303.	7.1	85
34	Expression of Hairy/Enhancer of Split genes, Hes1 and Hes5, during murine nephron morphogenesis. Gene Expression Patterns, 2004, 4, 707-711.	0.8	78
35	Dysregulation of angiopoietin-1 plays a mechanistic role in the pathogenesis of cerebral malaria. Science Translational Medicine, 2016, 8, 358ra128.	12.4	69
36	Nephrin Tyrosine Phosphorylation Is Required to Stabilize and Restore Podocyte Foot Process Architecture. Journal of the American Society of Nephrology: JASN, 2016, 27, 2422-2435.	6.1	65

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37	Ascending Vasa Recta Are Angiopoietin/Tie2-Dependent Lymphatic-Like Vessels. Journal of the American Society of Nephrology: JASN, 2018, 29, 1097-1107.	6.1	59
38	Transcriptional regulation of podocyte specification and differentiation. Microscopy Research and Technique, 2002, 57, 208-211.	2.2	57
39	Crosstalk in glomerular injury and repair. Current Opinion in Nephrology and Hypertension, 2015, 24, 1.	2.0	55
40	Loss of the Podocyte-Expressed Transcription Factor Tcf21/Pod1 Results in Podocyte Differentiation Defects and FSGS. Journal of the American Society of Nephrology: JASN, 2014, 25, 2459-2470.	6.1	52
41	Signaling during Kidney Development. Cells, 2015, 4, 112-132.	4.1	50
42	CD146 + cells are essential for kidney vasculature development. Kidney International, 2016, 90, 311-324.	5.2	47
43	Endothelial ERK1/2 signaling maintains integrity of the quiescent endothelium. Journal of Experimental Medicine, 2019, 216, 1874-1890.	8.5	47
44	Rapid Isolation of Glomeruli Coupled with Gene Expression Profiling Identifies Downstream Targets in Pod1 Knockout Mice. Journal of the American Society of Nephrology: JASN, 2005, 16, 3247-3255.	6.1	46
45	DGKE and atypical HUS. Nature Genetics, 2013, 45, 475-476.	21.4	45
46	A novel acetyltransferase p300 inhibitor ameliorates hypertension-associated cardio-renal fibrosis. Epigenetics, 2017, 12, 1004-1013.	2.7	41
47	Cellular crosstalk regulates the aqueous humor outflow pathway and provides new targets for glaucoma therapies. Nature Communications, 2021, 12, 6072.	12.8	40
48	Angiopoietins bind thrombomodulin and inhibit its function as a thrombin cofactor. Scientific Reports, 2018, 8, 505.	3.3	34
49	Targeting VE-PTP phosphatase protects the kidney from diabetic injury. Journal of Experimental Medicine, 2019, 216, 936-949.	8.5	34
50	ATGme: Open-source web application for rare codon identification and custom DNA sequence optimization. BMC Bioinformatics, 2015, 16, 303.	2.6	33
51	Plasma Vascular Endothelial Growth Factor Concentrations after Intravitreous Antiâ€“Vascular Endothelial Growth Factor Therapy for Diabetic Macular Edema. Ophthalmology, 2018, 125, 1054-1063.	5.2	32
52	Glomerular endothelial cell maturation depends on ADAM10, a key regulator of Notch signaling. Angiogenesis, 2018, 21, 335-347.	7.2	31
53	Selective tubular activation of hypoxia-inducible factor-2Î± has dual effects on renal fibrosis. Scientific Reports, 2017, 7, 11351.	3.3	30
54	The lymphatics in kidney health and disease. Nature Reviews Nephrology, 2021, 17, 655-675.	9.6	30

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55	Targeting the vascular-specific phosphatase PTPRB protects against retinal ganglion cell loss in a pre-clinical model of glaucoma. ELife, 2019, 8, .	6.0	30
56	Therapies on the Horizon for Diabetic Kidney Disease. Current Diabetes Reports, 2015, 15, 111.	4.2	28
57	Angiopoietin-1 deficiency increases tumor metastasis in mice. BMC Cancer, 2017, 17, 539.	2.6	26
58	SVEP1 as a Genetic Modifier of TEK-Related Primary Congenital Glaucoma. , 2020, 61, 6.		25
59	Transcription Factor 21 Is Required for Branching Morphogenesis and Regulates the Gdnf-Axis in Kidney Development. Journal of the American Society of Nephrology: JASN, 2018, 29, 2795-2808.	6.1	23
60	Angiopoietin-1 Knockout Mice as a Genetic Model of Open-Angle Glaucoma. Translational Vision Science and Technology, 2020, 9, 16.	2.2	22
61	A novel assay to assess the effect of pharmaceutical compounds on the differentiation of podocytes. British Journal of Pharmacology, 2017, 174, 163-176.	5.4	21
62	Glomerular mesangial cell recruitment and function require the co-receptor neuropilin-1. American Journal of Physiology - Renal Physiology, 2017, 313, F1232-F1242.	2.7	16
63	Endothelial mineralocorticoid receptor ablation does not alter blood pressure, kidney function or renal vessel contractility. PLoS ONE, 2018, 13, e0193032.	2.5	16
64	Kidney-Related Research in the United States: A Position Statement From the National Kidney Foundation and the American Society of Nephrology. American Journal of Kidney Diseases, 2021, 78, 161-167.	1.9	15
65	Selective permeability of mouse blood-aqueous barrier as determined by ¹⁵ N-heavy isotope tracing and mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9032-9037.	7.1	13
66	Renal carcinoma/kidney progenitor cell chimera organoid as a novel tumourigenesis gene discovery model. DMM Disease Models and Mechanisms, 2017, 10, 1503-1515.	2.4	8
67	Glomerular Cell Biology. , 2013, , 721-755.		7
68	Inverse correlation between vascular endothelial growth factor back-filtration and capillary filtration pressures. Nephrology Dialysis Transplantation, 2018, 33, 1514-1525.	0.7	7
69	Morphological Analysis of Schlemmâ€™s Canal in Mice. Methods in Molecular Biology, 2018, 1846, 153-160.	0.9	7
70	New soluble angiopoietin analog of Heptaâ€ANG1 prevents pathological vascular leakage. Biotechnology and Bioengineering, 2021, 118, 423-432.	3.3	7
71	Advancing Nephrology. Clinical Journal of the American Society of Nephrology: CJASN, 2021, 16, 319-327.	4.5	7
72	Formation and Maintenance of a Functional Glomerulus. , 2016, , 103-119.		6

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73	Podocyte GSK3Î± is important for autophagy and its loss detrimental for glomerular function. FASEB BioAdvances, 2019, 1, 498-510.	2.4	6
74	Removing Race from Kidney Disease Diagnosis. Journal of the American Society of Nephrology: JASN, 2021, 32, 2987-2989.	6.1	6
75	Endothelial Tyrosine Kinase Tie1 Is Required for Normal Schlemmâ€™s Canal Developmentâ€”Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, 42, 348-351.	2.4	6
76	Genetic susceptibility to HIV-associated nephropathy. Journal of Clinical Investigation, 2009, 119, 1085-1089.	8.2	5
77	Forward genetic screen in human podocytes identifies diphthamide biosynthesis genes as regulators of adhesion. American Journal of Physiology - Renal Physiology, 2019, 317, F1593-F1604.	2.7	4
78	A suPAR kidney connection found in the bone marrow. Nature Reviews Nephrology, 2017, 13, 263-264.	9.6	3
79	Genetic Deletion of Emp2 Does Not Cause Proteinuric Kidney Disease in Mice. Frontiers in Medicine, 2019, 6, 189.	2.6	3
80	Embryology of the Kidney. , 2012, , 2-30.		3
81	Removing Race from Kidney Disease Diagnosis. American Journal of Kidney Diseases, 2022, 79, 153-155.	1.9	3
82	SuPAR and FSGS: is the jury still out?. Nature Reviews Nephrology, 2017, 13, 593-593.	9.6	2
83	Preparation of a Single Cell Suspension from the Murine Iridocorneal Angle. Bio-protocol, 2022, 12, .	0.4	2
84	MAMMALIAN KIDNEY DEVELOPMENT: MOLECULES TO TREATMENT. Fetal and Maternal Medicine Review, 2003, 14, 309-327.	0.3	1
85	Podocyteâ€“Endothelial Interactions. , 2007, , 620-626.		0
86	Evolving Demographics of Nephrology Research Workforce in the United States. Clinical Journal of the American Society of Nephrology: CJASN, 2021, 16, 1312-1314.	4.5	0
87	Mouse Models of Glomerulogenesis and Glomerular Disease. FASEB Journal, 2007, 21, A137.	0.5	0
88	Tribute to Barbara T. Murphy. Journal of the American Society of Nephrology: JASN, 2021, 32, 2685-2686.	6.1	0
89	The Art and Science of Medicine â€¦ and Standardized Test Scores. Journal of the American Society of Nephrology: JASN, 2021, 32, 2694-2696.	6.1	0