Bart Smeets

List of Publications by Year
in descending order

68 papers	3,508 citations	186265 28 h-index	138484 58 g-index
70 all docs	70 docs citations	70 times ranked	3037 citing authors

#	Article	IF	Citations
1	Recruitment of Podocytes from Glomerular Parietal Epithelial Cells. Journal of the American Society of Nephrology: JASN, 2009, 20, 333-343.	6.1	418
2	Deep Learningâ€"Based Histopathologic Assessment of Kidney Tissue. Journal of the American Society of Nephrology: JASN, 2019, 30, 1968-1979.	6.1	226
3	Tracing the Origin of Glomerular Extracapillary Lesions from Parietal Epithelial Cells. Journal of the American Society of Nephrology: JASN, 2009, 20, 2604-2615.	6.1	218
4	Proximal tubular cells contain a phenotypically distinct, scattered cell population involved in tubular regeneration. Journal of Pathology, 2013, 229, 645-659.	4.5	188
5	Parietal Epithelial Cells Participate in the Formation of Sclerotic Lesions in Focal Segmental Glomerulosclerosis. Journal of the American Society of Nephrology: JASN, 2011, 22, 1262-1274.	6.1	186
6	Renal Progenitor Cells Contribute to Hyperplastic Lesions of Podocytopathies and Crescentic Glomerulonephritis. Journal of the American Society of Nephrology: JASN, 2009, 20, 2593-2603.	6.1	173
7	SARS-CoV-2 infects the human kidney and drives fibrosis in kidney organoids. Cell Stem Cell, 2022, 29, 217-231.e8.	11.1	146
8	Origin of regenerating tubular cells after acute kidney injury. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1533-1538.	7.1	139
9	The emergence of the glomerular parietal epithelial cell. Nature Reviews Nephrology, 2014, 10, 158-173.	9.6	131
10	Minimal change disease and idiopathic FSGS: manifestations of the same disease. Nature Reviews Nephrology, 2016, 12, 768-776.	9.6	125
11	Albumin Is Recycled from the Primary Urine by Tubular Transcytosis. Journal of the American Society of Nephrology: JASN, 2013, 24, 1966-1980.	6.1	115
12	The parietal epithelial cell is crucially involved in human idiopathic focal segmental glomerulosclerosis11See editorial by Schwartz, p. 1894.. Kidney International, 2005, 68, 1562-1572.	5.2	104
13	Proliferating cells in HIV and pamidronate-associated collapsing focal segmental glomerulosclerosis are parietal epithelial cells. Kidney International, 2006, 70, 338-344.	5.2	99
14	Parietal Epithelial Cell Activation Marker in Early Recurrence of FSGS in the Transplant. Clinical Journal of the American Society of Nephrology: CJASN, 2012, 7, 1852-1858.	4.5	99
15	The Regenerative Potential of Parietal Epithelial Cells in Adult Mice. Journal of the American Society of Nephrology: JASN, 2014, 25, 693-705.	6.1	96
16	Detection of Activated Parietal Epithelial Cells on the Glomerular Tuft Distinguishes Early Focal Segmental Glomerulosclerosis from Minimal Change Disease. American Journal of Pathology, 2014, 184, 3239-3248.	3.8	81
17	The Parietal Epithelial Cell: A Key Player in the Pathogenesis of Focal Segmental Glomerulosclerosis in Thy-1.1 Transgenic Mice. Journal of the American Society of Nephrology: JASN, 2004, 15, 928-939.	6.1	78
18	A Comprehensive Analysis of Ontogeny of Renal Drug Transporters: mRNA Analyses, Quantitative Proteomics, and Localization. Clinical Pharmacology and Therapeutics, 2019, 106, 1083-1092.	4.7	69

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19	Subtotal Ablation of Parietal Epithelial Cells Induces Crescent Formation. Journal of the American Society of Nephrology: JASN, 2012, 23, 629-640.	6.1	61
20	Parietal Epithelial Cells and Podocytes in Glomerular Diseases. Seminars in Nephrology, 2012, 32, 357-367.	1.6	61
21	Common histological patterns in glomerular epithelial cells in secondary focal segmental glomerulosclerosis. Kidney International, 2015, 88, 990-998.	5.2	57
22	Primary Cultures of Glomerular Parietal Epithelial Cells or Podocytes with Proven Origin. PLoS ONE, 2012, 7, e34907.	2.5	55
23	CD44 is required for the pathogenesis of experimental crescentic glomerulonephritis and collapsing focal segmental glomerulosclerosis. Kidney International, 2018, 93, 626-642.	5.2	52
24	Novel parietal epithelial cell subpopulations contribute to focal segmental glomerulosclerosis and glomerular tip lesions. Kidney International, 2019, 96, 80-93.	5.2	50
25	Investigations of Glucocorticoid Action in GN. Journal of the American Society of Nephrology: JASN, 2017, 28, 1408-1420.	6.1	46
26	Origin of Parietal Podocytes in Atubular Glomeruli Mapped by Lineage Tracing. Journal of the American Society of Nephrology: JASN, 2014, 25, 129-141.	6.1	41
27	Lessons from studies on focal segmental glomerulosclerosis: an important role for parietal epithelial cells?. Journal of Pathology, 2006, 210, 263-272.	4.5	31
28	Podocyte changes upon induction of albuminuria in Thy-1.1 transgenic mice. Nephrology Dialysis Transplantation, 2003, 18, 2524-2533.	0.7	30
29	Changes in mRNA expression profile underlie phenotypic adaptations in creatine kinase-deficient muscles. FEBS Letters, 2001, 506, 73-78.	2.8	25
30	Developmental patterns in human bloodâ€“brain barrier and bloodâ€“cerebrospinal fluid barrier ABCÂdrug transporter expression. Histochemistry and Cell Biology, 2020, 154, 265-273.	1.7	25
31	Quantitative assessment of inflammatory infiltrates in kidney transplant biopsies using multiplex tyramide signal amplification and deep learning. Laboratory Investigation, 2021, 101, 970-982.	3.7	25
32	Role of Parietal Epithelial Cells in Kidney Injury: The Case of Rapidly Progressing Glomerulonephritis and Focal and Segmental Glomerulosclerosis. Nephron Experimental Nephrology, 2014, 126, 97-100.	2.2	23
33	Automatic segmentation of histopathological slides of renal tissue using deep learning. , 2018, , .		23
34	Parietal cellsâ€"new perspectives in glomerular disease. Cell and Tissue Research, 2017, 369, 237-244.	2.9	21
35	Human pluripotent stem cell-derived kidney organoids for personalized congenital and idiopathic nephrotic syndrome modeling. Development (Cambridge), 2022, 149, .	2.5	16
36	Convolutional Neural Networks for the Evaluation of Chronic and Inflammatory Lesions in Kidney Transplant Biopsies. American Journal of Pathology, 2022, 192, 1418-1432.	3.8	16

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37	Novel target in the treatment of RPGN: the activated parietal cell. Nephrology Dialysis Transplantation, 2013, 28, 489-492.	0.7	15
38	Nephrotic syndrome in a dish: recent developments in modeling in vitro. Pediatric Nephrology, 2020, 35, 1363-1372.	1.7	15
39	Tight linkage between myotonic dystrophy and apolipoprotein E genes revealed with allele-specific oligonucleotides. Human Genetics, 1988, 80, 49-52.	3.8	13
40	The SDF-1/CXCR4 Axis Is a Novel Driver of Vascular Development of the Glomerulus. Journal of the American Society of Nephrology: JASN, 2009, 20, 1659-1661.	6.1	13
41	Angiotensin converting enzyme inhibition prevents development of collapsing focal segmental glomerulosclerosis in Thy-1.1 transgenic mice. Nephrology Dialysis Transplantation, 2006, 21, 3087-3097.	0.7	12
42	Renal phospholipidosis and impaired magnesium handling in highâ€fatâ€dietâ€"fed mice. FASEB Journal, 2019, 33, 7192-7201.	0.5	12
43	Origin and fate of the regenerating cells of the kidney. European Journal of Pharmacology, 2016, 790, 62-73.	3.5	11
44	The podocyte as a direct target of glucocorticoids in nephrotic syndrome. Nephrology Dialysis Transplantation, 2022, 37, 1808-1815.	0.7	8
45	Kidney tubule iron loading in experimental focal segmental glomerulosclerosis. Scientific Reports, 2022, 12, 1199.	3.3	6
46	Carbonic Anhydrase IX-Targeted Î±-Radionuclide Therapy with 225Ac Inhibits Tumor Growth in a Renal Cell Carcinoma Model. Pharmaceuticals, 2022, 15, 570.	3.8	6
47	Sestrin 2: a regulator of the glomerular parietal epithelial cell phenotype. American Journal of Physiology - Renal Physiology, 2014, 307, F798-F799.	2.7	5
48	Models of FSGS and minimal change nephropathy. Drug Discovery Today: Disease Models, 2010, 7, 3-11.	1.2	4
49	Isolation and Primary Culture of Murine Podocytes with Proven Origin. Methods in Molecular Biology, 2016, 1397, 3-10.	0.9	4
50	Cre recombinase toxicity in podocytes: a novel genetic model for FSGS in adolescent mice. American Journal of Physiology - Renal Physiology, 2019, 317, F1375-F1382.	2.7	4
51	Artificial intelligence: is there a potential role in nephropathology?. Nephrology Dialysis Transplantation, 2022, 37, 438-440.	0.7	4
52	CD9 Is a Novel Target in Glomerular Diseases Typified by Parietal Epithelial Cell Activation. American Journal of Kidney Diseases, 2020, 75, 812-814.	1.9	4
53	Investigating the Molecular Mechanisms of Renal Hepcidin Induction and Protection upon Hemoglobin-Induced Acute Kidney Injury. International Journal of Molecular Sciences, 2022, 23, 1352.	4.1	4
54	Parietal epithelial cells maintain the epithelial cell continuum forming Bowman's space in focal segmental glomerulosclerosis. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	4

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55	Inhibition of mTOR delayed but could not prevent experimental collapsing focal segmental glomerulosclerosis. Scientific Reports, 2020, 10, 8580.	3.3	3
56	Blocking of inflammatory heparan sulfate domains by specific antibodies is not protective in experimental glomerulonephritis. PLoS ONE, 2021, 16, e0261722.	2.5	3
57	Motile Cilia on Kidney Proximal Tubular Epithelial Cells Are Associated With Tubular Injury and Interstitial Fibrosis. Frontiers in Cell and Developmental Biology, 2022, 10, 765887.	3.7	3
58	Establishment and characterization of a novel conditionally immortalized human parietal epithelial cell line. Experimental Cell Research, 2021, 405, 112712.	2.6	2
59	Bioengineered kidneys: new sights on a distant horizon. International Urology and Nephrology, 2014, 46, 477-480.	1.4	1
60	FO034CRE-RECOMBINASE MEDIATED TOXICITY IN PODOCYTES - A NEW MODEL FOR FSGS. Nephrology Dialysis Transplantation, 2015, 30, iii17-iii17.	0.7	0
61	SP096COMMON PATTERNS OF GLOMERULAR EPITHELIAL CELLS IN HUMAN SECONDARY FSGS LESIONS. Nephrology Dialysis Transplantation, 2015, 30, iii410-iii410.	0.7	0
62	SP048UNRAVELING THE MECHANISM OF ACTION OF GLUCOCORTICOIDS IN GLOMERULONEPHRITIS. Nephrology Dialysis Transplantation, 2015, 30, iii396-iii396.	0.7	0
63	O30â€...A comprehensive analysis of ontogeny of renal drug transporters: mRNA analyses, quantitative proteomics and localization. Archives of Disease in Childhood, 2019, 104, e13.2-e13.	1.9	0
64	P98â€...Semi-quantification and localization of membrane transporters in paediatric kidney tissue. Archives of Disease in Childhood, 2019, 104, e58.1-e58.	1.9	0
65	O32â€...Ontogeny of human kidney OCT2 expression across the paediatric age range. Archives of Disease in Childhood, 2019, 104, e14.2-e14.	1.9	0
66	Glomerular Outgrowth as an Ex Vivo Assay to Analyze Pathways Involved in Parietal Epithelial Cell Activation. Journal of Visualized Experiments, 2020, , .	0.3	0
67	MO168: Urinary Podocin Cell Count in Relation to Glomerular Damage Markers in Patients with Primary Nephrotic Syndrome. Nephrology Dialysis Transplantation, 2022, 37, .	0.7	0
68	MO066: The Role of Platelet-Derived Growth Factor in Focal Segmental Glomerulosclerosis. Nephrology Dialysis Transplantation, 2022, 37, .	0.7	0