

# Victor G Puelles

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

4,689  
citations

159585

30  
h-index

110387

64  
g-index

71  
all docs

71  
docs citations

71  
times ranked

9160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiorgan and Renal Tropism of SARS-CoV-2. <i>New England Journal of Medicine</i> , 2020, 383, 590-592.	27.0	1,523
2	Decoding myofibroblast origins in human kidney fibrosis. <i>Nature</i> , 2021, 589, 281-286.	27.8	380
3	SARS-CoV-2 renal tropism associates with acute kidney injury. <i>Lancet, The</i> , 2020, 396, 597-598.	13.7	253
4	Gli1 + Mesenchymal Stromal Cells Are a Key Driver of Bone Marrow Fibrosis and an Important Cellular Therapeutic Target. <i>Cell Stem Cell</i> , 2017, 20, 785-800.e8.	11.1	195
5	Cellular and Molecular Probing of Intact Human Organs. <i>Cell</i> , 2020, 180, 796-812.e19.	28.9	187
6	SARS-CoV-2 infects the human kidney and drives fibrosis in kidney organoids. <i>Cell Stem Cell</i> , 2022, 29, 217-231.e8.	11.1	146
7	Glomerular number and size variability and risk for kidney disease. <i>Current Opinion in Nephrology and Hypertension</i> , 2011, 20, 7-15.	2.0	126
8	Clonal expansion and activation of tissue-resident memory-like T <sub>H</sub> 17 cells expressing GM-CSF in the lungs of patients with severe COVID-19. <i>Science Immunology</i> , 2021, 6, .	11.9	125
9	Anaerobic Glycolysis Maintains the Glomerular Filtration Barrier Independent of Mitochondrial Metabolism and Dynamics. <i>Cell Reports</i> , 2019, 27, 1551-1566.e5.	6.4	106
10	Molecular consequences of SARS-CoV-2 liver tropism. <i>Nature Metabolism</i> , 2022, 4, 310-319.	11.9	98
11	Development of the Human Fetal Kidney from Mid to Late Gestation in Male and Female Infants. <i>EBioMedicine</i> , 2018, 27, 275-283.	6.1	93
12	MRI-based glomerular morphology and pathology in whole human kidneys. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1381-F1390.	2.7	87
13	Hypertension, glomerular hypertrophy and nephrosclerosis: the effect of race. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 1399-1409.	0.7	77
14	mTOR-mediated podocyte hypertrophy regulates glomerular integrity in mice and humans. <i>JCI Insight</i> , 2019, 4, .	5.0	69
15	Podocyte Number in Children and Adults. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 2277-2288.	6.1	61
16	Validation of a Three-Dimensional Method for Counting and Sizing Podocytes in Whole Glomeruli. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 3093-3104.	6.1	59
17	Pathogen-induced tissue-resident memory T <sub>H</sub> 17 (T <sub>RM</sub> 17) cells amplify autoimmune kidney disease. <i>Science Immunology</i> , 2020, 5, .	11.9	58
18	New insights on glomerular hyperfiltration: a Japanese autopsy study. <i>JCI Insight</i> , 2017, 2, .	5.0	57

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19	Altered Ureteric Branching Morphogenesis and Nephron Endowment in Offspring of Diabetic and Insulin-Treated Pregnancy. <i>PLoS ONE</i> , 2013, 8, e58243.	2.5	55
20	Human podocyte depletion in association with older age and hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F656-F668.	2.7	55
21	The tetraspanin CD9 controls migration and proliferation of parietal epithelial cells and glomerular disease progression. <i>Nature Communications</i> , 2019, 10, 3303.	12.8	52
22	DNA Methyltransferase 1 Controls Nephron Progenitor Cell Renewal and Differentiation. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 63-78.	6.1	52
23	Novel parietal epithelial cell subpopulations contribute to focal segmental glomerulosclerosis and glomerular tip lesions. <i>Kidney International</i> , 2019, 96, 80-93.	5.2	50
24	Estimating individual glomerular volume in the human kidney: clinical perspectives. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 1880-1888.	0.7	42
25	Dysregulated mesenchymal PDGFR $\beta$ drives kidney fibrosis. <i>EMBO Molecular Medicine</i> , 2020, 12, e11021.	6.9	41
26	Optical Clearing in the Kidney Reveals Potassium-Mediated Tubule Remodeling. <i>Cell Reports</i> , 2018, 25, 2668-2675.e3.	6.4	40
27	Smad3 deficiency protects mice from obesity-induced podocyte injury that precedes insulin resistance. <i>Kidney International</i> , 2015, 88, 286-298.	5.2	39
28	Smad4 promotes diabetic nephropathy by modulating glycolysis and $\text{OXPHOS}$ . <i>EMBO Reports</i> , 2020, 21, e48781.	4.5	39
29	Novel 3D analysis using optical tissue clearing documents the evolution of murine rapidly progressive glomerulonephritis. <i>Kidney International</i> , 2019, 96, 505-516.	5.2	35
30	Pro-cachectic factors link experimental and human chronic kidney disease to skeletal muscle wasting programs. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	34
31	Deep learning-based molecular morphometrics for kidney biopsies. <i>JCI Insight</i> , 2021, 6, .	5.0	31
32	Counting glomeruli and podocytes. <i>Current Opinion in Nephrology and Hypertension</i> , 2015, 24, 1.	2.0	29
33	Regulation of Renal Fibrosis by Smad3 Thr388 Phosphorylation. <i>American Journal of Pathology</i> , 2014, 184, 944-952.	3.8	24
34	COVID-19-associated Nephropathy Includes Tubular Necrosis and Capillary Congestion, with Evidence of SARS-CoV-2 in the Nephron. <i>Kidney360</i> , 2021, 2, 639-652.	2.1	24
35	Glomerular hypertrophy in subjects with low nephron number: contributions of sex, body size and race. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 1686-1695.	0.7	23
36	Clearly imaging and quantifying the kidney in 3D. <i>Kidney International</i> , 2021, 100, 780-786.	5.2	21

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37	Maternal glucose intolerance reduces offspring nephron endowment and increases glomerular volume in adult offspring. <i>Diabetes/Metabolism Research and Reviews</i> , 2016, 32, 816-826.	4.0	19
38	Chronic recurrent dehydration associated with periodic water intake exacerbates hypertension and promotes renal damage in male spontaneously hypertensive rats. <i>Scientific Reports</i> , 2016, 6, 33855.	3.3	19
39	APOL1 Risk Alleles Are Associated With More Severe Arteriosclerosis in Renal Resistance Vessels With Aging and Hypertension. <i>Kidney International Reports</i> , 2016, 1, 10-23.	0.8	19
40	Design-based stereological methods for estimating numbers of glomerular podocytes. <i>Annals of Anatomy</i> , 2014, 196, 48-56.	1.9	18
41	Quantifying podocyte depletion: theoretical and practical considerations. <i>Cell and Tissue Research</i> , 2017, 369, 229-236.	2.9	18
42	Interleukin-9 protects from early podocyte injury and progressive glomerulosclerosis in Adriamycin-induced nephropathy. <i>Kidney International</i> , 2020, 98, 615-629.	5.2	18
43	Maternal Fat Feeding Augments Offspring Nephron Endowment in Mice. <i>PLoS ONE</i> , 2016, 11, e0161578.	2.5	17
44	Proximal tubular dysfunction in patients with COVID-19: what have we learnt so far?. <i>Kidney International</i> , 2020, 98, 1092-1094.	5.2	17
45	Combining new tools to assess renal function and morphology: a holistic approach to study the effects of aging and a congenital nephron deficit. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F576-F584.	2.7	14
46	Loss of the collagen IV modifier prolyl 3-hydroxylase 2 causes thin basement membrane nephropathy. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	14
47	Non-invasive evaluation of coronary heart disease in patients with chronic kidney disease using photoplethysmography. <i>CKJ: Clinical Kidney Journal</i> , 2019, 12, 538-545.	2.9	13
48	Podometrics in Japanese Living Donor Kidneys: Associations with Nephron Number, Age, and Hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 1187-1199.	6.1	13
49	We can see clearly now. <i>Current Opinion in Nephrology and Hypertension</i> , 2017, 26, 179-186.	2.0	12
50	Th17 cell plasticity towards a T-bet-dependent Th1 phenotype is required for bacterial control in <i>Staphylococcus aureus</i> infection. <i>PLoS Pathogens</i> , 2022, 18, e1010430.	4.7	12
51	Parietal epithelial cell dysfunction in crescentic glomerulonephritis. <i>Cell and Tissue Research</i> , 2021, 385, 345-354.	2.9	11
52	Postnatal podocyte gain: Is the jury still out?. <i>Seminars in Cell and Developmental Biology</i> , 2019, 91, 147-152.	5.0	10
53	Podocyte endowment and the impact of adult body size on kidney health. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, F322-F334.	2.7	10
54	The calcium-sensing receptor stabilizes podocyte function in proteinuric humans and mice. <i>Kidney International</i> , 2022, 101, 1186-1199.	5.2	6

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55	Optical Clearing and Imaging of Immunolabeled Kidney Tissue. Journal of Visualized Experiments, 2019, ,	0.3	5
56	Association of SARS-CoV-2 renal tropism with acute kidney injury “ Authors' reply. Lancet, The, 2020, 396, 1881-1882.	13.7	5
57	Convalescent plasma treatment for early post kidney transplant acquired COVID 19. Transplant Infectious Disease, 2021, 23, e13685.	1.7	5
58	Kidneys control inter-organ homeostasis. Nature Reviews Nephrology, 2022, 18, 207-208.	9.6	5
59	The Amphiregulin/EGFR axis protects from lupus nephritis via downregulation of pathogenic CD4+ T helper cell responses. Journal of Autoimmunity, 2022, 129, 102829.	6.5	5
60	Indirect estimation of nephron number: a new tool to predict outcomes in renal transplantation?. Nephrology Dialysis Transplantation, 2016, 31, 1378-1380.	0.7	3
61	Normal foetal kidney volume in offspring of women treated for gestational diabetes. Endocrinology, Diabetes and Metabolism, 2019, 2, e00091.	2.4	3
62	A protocol for rat kidney normothermic machine perfusion and subsequent transplantation. Artificial Organs, 2021, 45, 168-174.	1.9	3
63	The ability of remaining glomerular podocytes to adapt to the loss of their neighbours decreases with age. Cell and Tissue Research, 2022, 388, 439-451.	2.9	3
64	Variation in Human Nephron Number and Association with Disease. , 2016, , 167-175.		1
65	Deep Learning-Based Bias Transfer for Overcoming Laboratory Differences of Microscopic Images. Lecture Notes in Computer Science, 2021, , 322-336.	1.3	1
66	Optical Clearing in Kidney Reveals Potassium-Mediated Tubule Remodeling. SSRN Electronic Journal, 0, ,	0.4	1
67	Postnatal Cell Turnover in the Nephron Epithelium. , 2016, , 319-333.		0