Gerd Walz

List of Publications by Year
in descending order

109 papers	8,792 citations	76031 42 h-index	49824 91 g-index
112 all docs	112 docs citations	112 times ranked	9988 citing authors

#	Article	IF	Citations
1	The mTOR pathway is regulated by polycystin-1, and its inhibition reverses renal cystogenesis in polycystic kidney disease. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5466-5471.	3.3	715
2	Inversin, the gene product mutated in nephronophthisis type II, functions as a molecular switch between Wnt signaling pathways. Nature Genetics, 2005, 37, 537-543.	9.4	680
3	Mutations in INVS encoding inversin cause nephronophthisis type 2, linking renal cystic disease to the function of primary cilia and left-right axis determination. Nature Genetics, 2003, 34, 413-420.	9.4	582
4	The centrosomal protein nephrocystin-6 is mutated in Joubert syndrome and activates transcription factor ATF4. Nature Genetics, 2006, 38, 674-681.	9.4	535
5	Everolimus in Patients with Autosomal Dominant Polycystic Kidney Disease. New England Journal of Medicine, 2010, 363, 830-840.	13.9	517
6	TRPP2 and TRPV4 form a polymodal sensory channel complex. Journal of Cell Biology, 2008, 182, 437-447.	2.3	349
7	Exome Capture Reveals ZNF423 and CEP164 Mutations, Linking Renal Ciliopathies to DNA Damage Response Signaling. Cell, 2012, 150, 533-548.	13.5	347
8	Mutations in a novel gene, NPHP3, cause adolescent nephronophthisis, tapeto-retinal degeneration and hepatic fibrosis. Nature Genetics, 2003, 34, 455-459.	9.4	345
9	Primary cilia regulate mTORC1 activity and cell size through Lkb1. Nature Cell Biology, 2010, 12, 1115-1122.	4.6	330
10	Interaction with Podocin Facilitates Nephrin Signaling. Journal of Biological Chemistry, 2001, 276, 41543-41546.	1.6	304
11	Loss of Nephrocystin-3 Function Can Cause Embryonic Lethality,ÂMeckel-Gruber-like Syndrome, Situs Inversus, and Renal-Hepatic-Pancreatic Dysplasia. American Journal of Human Genetics, 2008, 82, 959-970.	2.6	294
12	Trafficking of TRPP2 by PACS proteins represents a novel mechanism of ion channel regulation. EMBO Journal, 2005, 24, 705-716.	3.5	237
13	Autosomal dominant polycystic kidney disease: the changing face of clinical management. Lancet, The, 2015, 385, 1993-2002.	6.3	227
14	ANKS6 is a central component of a nephronophthisis module linking NEK8 to INVS and NPHP3. Nature Genetics, 2013, 45, 951-956.	9.4	183
15	The von Hippel-Lindau tumor suppressor protein controls ciliogenesis by orienting microtubule growth. Journal of Cell Biology, 2006, 175, 547-554.	2.3	165
16	The German Chronic Kidney Disease (GCKD) study: design and methods. Nephrology Dialysis Transplantation, 2012, 27, 1454-1460.	0.4	127
17	mTOR and rapamycin in the kidney: signaling and therapeutic implications beyond immunosuppression. Kidney International, 2011, 79, 502-511.	2.6	124
18	Direct reprogramming of fibroblasts into renal tubular epithelial cells by defined transcription factors. Nature Cell Biology, 2016, 18, 1269-1280.	4.6	113

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19	Genetic studies of urinary metabolites illuminate mechanisms of detoxification and excretion in humans. Nature Genetics, 2020, 52, 167-176.	9.4	101
20	A molecular mechanism explaining albuminuria in kidney disease. Nature Metabolism, 2020, 2, 461-474.	5.1	99
21	TRPP2 channels regulate apoptosis through the Ca2+ concentration in the endoplasmic reticulum. EMBO Journal, 2009, 28, 490-499.	3.5	98
22	Phosphorylation by casein kinase 2 induces PACS-1 binding of nephrocystin and targeting to cilia. EMBO Journal, 2005, 24, 4415-4424.	3.5	92
23	Wnt Signaling in Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2007, 18, 1389-1398.	3.0	87
24	Tyrosine Phosphorylation Modulates the Activity of TRPV4 in Response to Defined Stimuli. Journal of Biological Chemistry, 2009, 284, 2923-2933.	1.6	87
25	mTORC1 maintains renal tubular homeostasis and is essential in response to ischemic stress. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2817-26.	3.3	82
26	The HECT ubiquitin ligase AIP4 regulates the cell surface expression of select TRP channels. EMBO Journal, 2006, 25, 5659-5669.	3.5	79
27	Ciliaâ€localized <scp>LKB</scp> 1 regulates chemokine signaling, macrophage recruitment, and tissue homeostasis in the kidney. EMBO Journal, 2018, 37, .	3.5	78
28	NEPH2 Is Located at the Glomerular Slit Diaphragm, Interacts with Nephrin and Is Cleaved from Podocytes by Metalloproteinases. Journal of the American Society of Nephrology: JASN, 2005, 16, 1693-1702.	3.0	77
29	Genetic and physical interaction between the NPHP5 and NPHP6 gene products. Human Molecular Genetics, 2008, 17, 3655-3662.	1.4	72
30	A flexible, multilayered protein scaffold maintains the slit in between glomerular podocytes. JCI Insight, 2016, 1, .	2.3	69
31	OS-9 Regulates the Transit and Polyubiquitination of TRPV4 in the Endoplasmic Reticulum. Journal of Biological Chemistry, 2007, 282, 36561-36570.	1.6	63
32	Subcellular localization and trafficking of polycystins. Pflugers Archiv European Journal of Physiology, 2005, 451, 286-293.	1.3	61
33	Identification of a Protein Kinase C-dependent phosphorylation site involved in sensitization of TRPV4 channel. Biochemical and Biophysical Research Communications, 2010, 391, 1721-1725.	1.0	61
34	Targeting mTOR Signaling Can Prevent the Progression of FSGS. Journal of the American Society of Nephrology: JASN, 2017, 28, 2144-2157.	3.0	57
35	N-WASP Is Required for Stabilization of Podocyte Foot Processes. Journal of the American Society of Nephrology: JASN, 2013, 24, 713-721.	3.0	56
36	TSC1 Activates TGF-Î²-Smad2/3 Signaling in Growth Arrest and Epithelial-to-Mesenchymal Transition. Developmental Cell, 2015, 32, 617-630.	3.1	54

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37	Inversin relays Frizzled-8 signals to promote proximal pronephros development. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20388-20393.	3.3	50
38	Role of the Polarity Protein Scribble for Podocyte Differentiation and Maintenance. PLoS ONE, 2012, 7, e36705.	1.1	50
39	Regulation of ciliary polarity by the APC/C. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17799-17804.	3.3	49
40	The Subcellular Localization of TRPP2 Modulates Its Function. Journal of the American Society of Nephrology: JASN, 2008, 19, 1342-1351.	3.0	48
41	Nephrocystin-4 is required for pronephric duct-dependent cloaca formation in zebrafish. Human Molecular Genetics, 2011, 20, 3119-3128.	1.4	48
42	The polarity protein Inturned links NPHP4 to Daam1 to control the subapical actin network in multiciliated cells. Journal of Cell Biology, 2015, 211, 963-973.	2.3	48
43	The Rac1 regulator ELMO controls basal body migration and docking in multiciliated cells through interaction with Ezrin. Development (Cambridge), 2015, 142, 174-184.	1.2	45
44	Primary decidual zone formation requires Scribble for pregnancy success in mice. Nature Communications, 2019, 10, 5425.	5.8	42
45	CXCL12 and MYC control energy metabolism to support adaptive responses after kidney injury. Nature Communications, 2018, 9, 3660.	5.8	39
46	The acetyltransferase p300 regulates NRF2 stability and localization. Biochemical and Biophysical Research Communications, 2020, 524, 895-902.	1.0	37
47	YAP1 Recruits c-Abl to Protect Angiomotin-Like 1 from Nedd4-Mediated Degradation. PLoS ONE, 2012, 7, e35735.	1.1	35
48	Role of primary cilia in non-dividing and post-mitotic cells. Cell and Tissue Research, 2017, 369, 11-25.	1.5	31
49	Anks3 interacts with nephronophthisis proteins and is required for normal renal development. Kidney International, 2015, 87, 1191-1200.	2.6	30
50	TBC1D8B Mutations Implicate RAB11-Dependent Vesicular Trafficking in the Pathogenesis of Nephrotic Syndrome. Journal of the American Society of Nephrology: JASN, 2019, 30, 2338-2353.	3.0	25
51	Nephrocystin-4 Regulates Pyk2-induced Tyrosine Phosphorylation of Nephrocystin-1 to Control Targeting to Monocilia. Journal of Biological Chemistry, 2011, 286, 14237-14245.	1.6	22
52	Caenorhabditis elegans OSM-11 signaling regulates SKN-1/Nrf during embryonic development and adult longevity and stress response. Developmental Biology, 2015, 400, 118-131.	0.9	22
53	Urine Metabolite Levels, Adverse Kidney Outcomes, and Mortality in CKD Patients: A Metabolome-wide Association Study. American Journal of Kidney Diseases, 2021, 78, 669-677.e1.	2.1	22
54	A Complex of BBS1 and NPHP7 Is Required for Cilia Motility in Zebrafish. PLoS ONE, 2013, 8, e72549.	1.1	21

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55	Metabolic Phenotyping of Anks3 Depletion in mIMCD-3 cells - a Putative Nephronophthisis Candidate. Scientific Reports, 2018, 8, 9022.	1.6	20
56	Comparison of different anticoagulation strategies for renal replacement therapy in critically ill patients with COVID-19: a cohort study. BMC Nephrology, 2020, 21, 486.	0.8	20
57	EPB41L5 controls podocyte extracellular matrix assembly by adhesome-dependent force transmission. Cell Reports, 2021, 34, 108883.	2.9	19
58	Calciphylaxis. Lancet, The, 2014, 383, 1067.	6.3	18
59	The mitochondrial transporter SLC25A25 links ciliary TRPP2 signaling and cellular metabolism. PLoS Biology, 2018, 16, e2005651.	2.6	18
60	CBP-1/p300 acetyltransferase regulates SKN-1/Nrf cellular levels, nuclear localization, and activity in C. elegans. Experimental Gerontology, 2019, 126, 110690.	1.2	18
61	SRGAP1 Controls Small Rho GTPases To Regulate Podocyte Foot Process Maintenance. Journal of the American Society of Nephrology: JASN, 2021, 32, 563-579.	3.0	18
62	The retinitis pigmentosa GTPase regulator interacting protein 1 (RPGRIP1) links RPGR to the nephronophthisis protein network. Kidney International, 2010, 77, 891-896.	2.6	17
63	Interaction with the Bardet-Biedl Gene Product TRIM32/BBS11 Modifies the Half-life and Localization of Glis2/NPHP7. Journal of Biological Chemistry, 2014, 289, 8390-8401.	1.6	17
64	Anks3 alters the sub-cellular localization of the Nek7 kinase. Biochemical and Biophysical Research Communications, 2015, 464, 901-907.	1.0	17
65	ANKS3 is mutated in a family with autosomal recessive laterality defect. Human Genetics, 2016, 135, 1233-1239.	1.8	17
66	CDC42 controlled apical-basal polarity regulates intestinal stem cell to transit amplifying cell fate transition via YAP-EGF-mTOR signaling. Cell Reports, 2022, 38, 110009.	2.9	17
67	Associations between genetic risk variants for kidney diseases and kidney disease etiology. Scientific Reports, 2017, 7, 13944.	1.6	16
68	Metabolic characterization of directly reprogrammed renal tubular epithelial cells (iRECs). Scientific Reports, 2018, 8, 3878.	1.6	16
69	SUMOylation Blocks the Ubiquitin-Mediated Degradation of the Nephronophthisis Gene Product Glis2/NPHP7. PLoS ONE, 2015, 10, e0130275.	1.1	15
70	Inhibition of endoplasmic reticulum stress signaling rescues cytotoxicity of human apolipoprotein-L1 risk variants in Drosophila. Kidney International, 2022, 101, 1216-1231.	2.6	15
71	Î±-Parvin Defines a Specific Integrin Adhesome to Maintain the Glomerular Filtration Barrier. Journal of the American Society of Nephrology: JASN, 2022, 33, 786-808.	3.0	15
72	The nucleoside-diphosphate kinase NME3 associates with nephronophthisis proteins and is required for ciliary function during renal development. Journal of Biological Chemistry, 2018, 293, 15243-15255.	1.6	13

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73	Growth characteristics and therapeutic decision markers in von Hippel-Lindau disease patients with renal cell carcinoma. Orphanet Journal of Rare Diseases, 2019, 14, 235.	1.2	13
74	Nephronophthisis gene products display RNA-binding properties and are recruited to stress granules. Scientific Reports, 2020, 10, 15954.	1.6	13
75	VHL suppresses RAPTOR and inhibits mTORC1 signaling in clear cell renal cell carcinoma. Scientific Reports, 2021, 11, 14827.	1.6	13
76	Microridge-like structures anchor motile cilia. Nature Communications, 2022, 13, 2056.	5.8	13
77	Divergent function of polycystin 1 and polycystin 2 in cell size regulation. Biochemical and Biophysical Research Communications, 2020, 521, 290-295.	1.0	12
78	The Treatment of Autosomal Dominant Polycystic Kidney Disease. Deutsches Ärzteblatt International, 2015, 112, 884-90.	0.6	12
79	Single-cell mRNA profiling reveals changes in solute carrier expression and suggests a metabolic switch during zebrafish pronephros development. American Journal of Physiology - Renal Physiology, 2021, 320, F826-F837.	1.3	11
80	Secreted frizzled-related protein 4 predicts progression of autosomal dominant polycystic kidney disease. Nephrology Dialysis Transplantation, 2015, 31, gfv077.	0.4	9
81	Therapy with lopinavir/ritonavir and hydroxychloroquine is associated with acute kidney injury in COVID-19 patients. PLoS ONE, 2021, 16, e0249760.	1.1	9
82	Successful Management of Calciphylaxis in a Kidney Transplant Patient. Transplantation Direct, 2016, 2, e70.	0.8	8
83	Cell cycle controls stress response and longevity in C. elegans. Aging, 2016, 8, 2100-2126.	1.4	8
84	A short carboxy-terminal domain of polycystin-1 reorganizes the microtubular network and the endoplasmic reticulum. Experimental Cell Research, 2009, 315, 1157-1170.	1.2	7
85	CGEF-1 regulates mTORC1 signaling during adult longevity and stress response in C. elegans. Oncotarget, 2018, 9, 9581-9595.	0.8	7
86	A Novel Model for Nephrotic Syndrome Reveals Associated Dysbiosis of the Gut Microbiome and Extramedullary Hematopoiesis. Cells, 2021, 10, 1509.	1.8	7
87	Scaffold polarity proteins Par3A and Par3B share redundant functions while Par3B acts independent of atypical protein kinase C/Par6 in podocytes to maintain the kidney filtration barrier. Kidney International, 2022, 101, 733-751.	2.6	7
88	Impact of Diabetic Stress Conditions on Renal Cell Metabolome. Cells, 2019, 8, 1141.	1.8	6
89	A Localized Scaffold for cGMP Increase Is Required for Apical Dendrite Development. Cell Reports, 2020, 31, 107519.	2.9	6
90	Development of Nivolumab/Ipilimumab-Associated Autoimmune Nephritis during Steroid Therapy. Case Reports in Nephrology and Dialysis, 2021, 11, 270-274.	0.3	6

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91	Reversible pulmonary hypertension in a kidney transplant with patent A-V fistula. CKJ: Clinical Kidney Journal, 2012, 5, 347-349.	1.4	5
92	Long-term Follow-up of ABO-Incompatible Kidney Transplantation in Freiburg, Germany: A Single-Center Outcome Report. Transplantation Proceedings, 2021, 53, 848-855.	0.3	5
93	Kidney embolization induces prompt organ response in a 86â€yearâ€old patient with MGRSâ€related ALâ€amyloidosis. Hemodialysis International, 2019, 23, E59-E64.	0.4	4
94	Corpuscles of Stannius development requires FGF signaling. Developmental Biology, 2022, 481, 160-171.	0.9	4
95	Impact of Cyclophosphamide and Glucocorticoid Therapy in IgA Nephropathy - A Single-Center Retrospective Analysis. Kidney360, 2022, 3, 10.34067/KID.0006702021.	0.9	4
96	Wnt signaling and rejuvenation of the adult kidney. Nephrology Dialysis Transplantation, 2010, 25, 34-36.	0.4	3
97	Subcutaneous Enoxaparin Safely Facilitates Bedside Sustained Low-Efficiency Hemodialysis in Hypercoagulopathic Coronavirus Disease 2019 Patientsâ€"A Proof-of-Principle Trial. , 2020, 2, e0155.		3
98	Risk Factors and Management of Leukopenia After Kidney Transplantation: A Single-Center Experience. Transplantation Proceedings, 2021, 53, 1589-1598.	0.3	3
99	Evaluation of Deceased Donor Kidney Transplantation in the Eurotransplant Senior Program in Comparison to Standard Allocation. Annals of Transplantation, 0, 27, .	0.5	3
100	Diverging impact of cell fate determinants Scrib and Llgl1 on adhesion and migration of hematopoietic stem cells. Journal of Cancer Research and Clinical Oncology, 2018, 144, 1933-1944.	1.2	2
101	Metabolic perturbations caused by depletion of nephronophthisis factor Anks6 in mIMCD3 cells. Metabolomics, 2019, 15, 71.	1.4	2
102	GFR estimation in lenalidomide treatment of multiple myeloma patients: a prospective cohort study. Clinical and Experimental Nephrology, 2019, 23, 199-206.	0.7	1
103	Clinical decision making in small non-functioning VHL-related incidentalomas. Endocrine Connections, 2020, 9, 834-844.	0.8	1
104	Control of Directed Cell Migration after Tubular Cell Injury by Nucleotide Signaling. International Journal of Molecular Sciences, 2022, 23, 7870.	1.8	1
105	Planar cell polarity (PCP) and Wnt signaling in renal disease. Drug Discovery Today Disease Mechanisms, 2013, 10, e159-e166.	0.8	0
106	Effect of everolimus on polycystic liver volume in autosomal dominant polycystic kidney disease. Clinical and Experimental Nephrology, 2015, 19, 757-758.	0.7	0
107	Dealing with prognostic signature instability: a strategy illustrated for cardiovascular events in patients with end-stage renal disease. BMC Medical Genomics, 2016, 9, 43.	0.7	0
108	Longâ€Term Therapeutic Plasma Exchange Therapy as Effective Approach to Refractory Primary Acquired Pregnancyâ€Related Thrombocytopenic Purpura. Therapeutic Apheresis and Dialysis, 2019, 23, 99-100.	0.4	0

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109	Ruptured Intrarenal Arterial Aneurysm in a Patient With Granulomatosis With Polyangiitis. Journal of Rheumatology, 2021, 48, 615-615.	1.0	0