George J Schwartz

List of Publications by Year
in descending order

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116	13,241	81900 39	24258 110
papers	citations	h-index	g-index

130	130	130	10867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New Equations to Estimate GFR in Children with CKD. Journal of the American Society of Nephrology: JASN, 2009, 20, 629-637.	6.1	2,853
2	The Use of Plasma Creatinine Concentration for Estimating Glomerular Filtration Rate in Infants, Children, and Adolescents. Pediatric Clinics of North America, 1987, 34, 571-590.	1.8	1,509
3	Geometric method for measuring body surface area: A height-weight formula validated in infants, children, and adults. Journal of Pediatrics, 1978, 93, 62-66.	1.8	1,462
4	Measurement and Estimation of GFR in Children and Adolescents. Clinical Journal of the American Society of Nephrology: CJASN, 2009, 4, 1832-1843.	4.5	764
5	National Kidney Foundationâ€™s Kidney Disease Outcomes Quality Initiative Clinical Practice Guidelines for Chronic Kidney Disease in Children and Adolescents: Evaluation, Classification, and Stratification. Pediatrics, 2003, 111, 1416-1421.	2.1	566
6	Improved equations estimating GFR in children with chronic kidney disease using an immunonephelometric determination of cystatin C. Kidney International, 2012, 82, 445-453.	5.2	430
7	A simple estimate of glomerular filtration ratein full-term infants during the first year of life. Journal of Pediatrics, 1984, 104, 849-854.	1.8	415
8	A simple estimate of glomerular filtration rate in adolescent boys. Journal of Pediatrics, 1985, 106, 522-526.	1.8	366
9	Design and Methods of the Chronic Kidney Disease in Children (CKiD) Prospective Cohort Study. Clinical Journal of the American Society of Nephrology: CJASN, 2006, 1, 1006-1015.	4.5	339
10	Plasticity of functional epithelial polarity. Nature, 1985, 318, 368-371.	27.8	317
11	Glomerular filtration rate measurement and estimation in chronic kidney disease. Pediatric Nephrology, 2007, 22, 1839-1848.	1.7	238
12	Glomerular filtration rate via plasma iohexol disappearance: Pilot study for chronic kidney disease in children. Kidney International, 2006, 69, 2070-2077.	5.2	215
13	Predictors of Rapid Progression of Glomerular and Nonglomerular Kidney Disease in Children and Adolescents: TheÂChronic Kidney Disease in Children (CKiD) Cohort. American Journal of Kidney Diseases, 2015, 65, 878-888.	1.9	215
14	Plasma creatinine and urea concentration in children: Normal values for age and sex. Journal of Pediatrics, 1976, 88, 828-830.	1.8	199
15	A simple estimate of glomerular filtration rate in low birth weight infants during the first year of life: Noninvasive assessment of body composition and growth. Journal of Pediatrics, 1986, 109, 698-707.	1.8	150
16	Age- and sex-dependent clinical equations to estimate glomerular filtration rates in children and young adults with chronic kidney disease. Kidney International, 2021, 99, 948-956.	5.2	150
17	Measurement and Estimation of Glomerular Filtration Rate in Children. Advances in Chronic Kidney Disease, 2017, 24, 348-356.	1.4	148
18	Metabolic Abnormalities, Cardiovascular Disease Risk Factors, and GFR Decline in Children with Chronic Kidney Disease. Clinical Journal of the American Society of Nephrology: CJASN, 2011, 6, 2132-2140.	4.5	135

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19	Disordered FGF23 and Mineral Metabolism in Children with CKD. Clinical Journal of the American Society of Nephrology: CJASN, 2014, 9, 344-353.	4.5	128
20	Age, Gender, and Race Effects on Cystatin C Levels in US Adolescents. Clinical Journal of the American Society of Nephrology: CJASN, 2008, 3, 1777-1785.	4.5	114
21	Hyperuricemia and Progression of CKD in Children and Adolescents: The Chronic Kidney Disease in Children (CKiD) Cohort Study. American Journal of Kidney Diseases, 2015, 66, 984-992.	1.9	105
22	Pediatric GFR Estimating Equations Applied to Adolescents in the General Population. Clinical Journal of the American Society of Nephrology: CJASN, 2011, 6, 1427-1435.	4.5	98
23	Effect of hydroxyurea treatment on renal function parameters: Results from the multiâ€center placeboâ€controlled BABY HUG clinical trial for infants with sickle cell anemia. Pediatric Blood and Cancer, 2012, 59, 668-674.	1.5	94
24	Renal intercalated cells are rather energized by a proton than a sodium pump. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7928-7933.	7.1	92
25	Acid incubation reverses the polarity of intercalated cell transporters, an effect mediated by hensin. Journal of Clinical Investigation, 2002, 109, 89-99.	8.2	76
26	Estimating residual kidney function in dialysis patients without urine collection. Kidney International, 2016, 89, 1099-1110.	5.2	71
27	Estimating Time to ESRD in Children With CKD. American Journal of Kidney Diseases, 2018, 71, 783-792.	1.9	67
28	Combination of pediatric and adult formulas yield valid glomerular filtration rate estimates in young adults with a history of pediatric chronic kidney disease. Kidney International, 2018, 94, 170-177.	5.2	65
29	A portable fiberoptic ratiometric fluorescence analyzer provides rapid point-of-care determination of glomerular filtration rate in large animals. Kidney International, 2012, 81, 112-117.	5.2	64
30	Cyclosporin A produces distal renal tubular acidosis by blocking peptidyl prolyl cis-trans isomerase activity of cyclophilin. American Journal of Physiology - Renal Physiology, 2005, 288, F40-F47.	2.7	59
31	Micro-method for the measurement of carbonic anhydrase activity in cellular homogenates. Analytical Biochemistry, 1988, 175, 289-297.	2.4	58
32	Optimizing iohexol plasma disappearance curves to measure the glomerular filtration rate in children with chronic kidney disease. Kidney International, 2010, 77, 65-71.	5.2	57
33	Albuminuria, Proteinuria, and Renal Disease Progression in Children with CKD. Clinical Journal of the American Society of Nephrology: CJASN, 2017, 12, 912-920.	4.5	57
34	Estimating Kidney Function in HIV-Infected Adults in Kenya: Comparison to a Direct Measure of Glomerular Filtration Rate by Iohexol Clearance. PLoS ONE, 2013, 8, e69601.	2.5	55
35	Acid incubation reverses the polarity of intercalated cell transporters, an effect mediated by hensin. Journal of Clinical Investigation, 2002, 109, 89-99.	8.2	55
36	Does kL/PCr estimate GFR, or does GFR determine k?. Pediatric Nephrology, 1992, 6, 512-515.	1.7	48

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37	Universal GFR determination based on two time points during plasma iohexol disappearance. Kidney International, 2011, 80, 423-430.	5.2	48
38	Epidemiology of Skeletal Health in Type 1 Diabetes. Current Osteoporosis Reports, 2016, 14, 327-336.	3.6	46
39	Validation of creatinine assays utilizing HPLC and IDMS traceable standards in sera of children. Pediatric Nephrology, 2009, 24, 113-119.	1.7	41
40	Adaptation to metabolic acidosis and its recovery are associated with changes in anion exchanger distribution and expression in the cortical collecting duct. Kidney International, 2010, 78, 993-1005.	5.2	41
41	Depressive Symptoms in Children with Chronic Kidney Disease. Journal of Pediatrics, 2016, 168, 164-170.e1.	1.8	41
42	Secreted Cyclophilin A, a Peptidylprolyl cis-trans Isomerase, Mediates Matrix Assembly of Hensin, a Protein Implicated in Epithelial Differentiation. Journal of Biological Chemistry, 2009, 284, 6465-6475.	3.4	38
43	Postnatal maturation of the rabbit cortical collecting duct. Pediatric Nephrology, 1988, 2, 135-145.	1.7	35
44	Estimating and measuring glomerular filtration rate in children. Current Opinion in Nephrology and Hypertension, 2008, 17, 320-325.	2.0	35
45	HIV Viremia and T-Cell Activation Differentially Affect the Performance of Glomerular Filtration Rate Equations Based on Creatinine and Cystatin C. PLoS ONE, 2013, 8, e82028.	2.5	35
46	Role of basolateral carbonic anhydrase in proximal tubular fluid and bicarbonate absorption. American Journal of Physiology - Renal Physiology, 2001, 280, F146-F154.	2.7	34
47	Carbonic anhydrase 2 deficiency leads to increased pyelonephritis susceptibility. American Journal of Physiology - Renal Physiology, 2014, 307, F869-F880.	2.7	34
48	Estimating GFR in Adult Patients with Hematopoietic Cell Transplant. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 601-610.	4.5	34
49	Carbonic anhydrase IV is expressed in H⁺-secreting cells of rabbit kidney. American Journal of Physiology - Renal Physiology, 2000, 278, F894-F904.	2.7	33
50	Expression of membrane-associated carbonic anhydrase isoforms IV, IX, XII, and XIV in the rabbit: induction of CA IV and IX during maturation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1256-R1263.	1.8	32
51	Galectin-3 expression is induced in renal Î²-intercalated cells during metabolic acidosis. American Journal of Physiology - Renal Physiology, 2006, 290, F148-F158.	2.7	32
52	Kidney Disease Progression in Autosomal Recessive Polycystic KidneyÂDisease. Journal of Pediatrics, 2016, 171, 196-201.e1.	1.8	32
53	Postnatal Differentiation of Rabbit Collecting Duct Intercalated Cells1. Pediatric Research, 1996, 39, 1-12.	2.3	31
54	Low Serum Bicarbonate and CKD Progression in Children. Clinical Journal of the American Society of Nephrology: CJASN, 2020, 15, 755-765.	4.5	30

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55	Physiology and molecular biology of renal carbonic anhydrase. Journal of Nephrology, 2002, 15 Suppl 5, S61-74.	2.0	28
56	p-Aminohippurate Transport in the Proximal Straight Tubule: Development and Substrate Stimulation. Pediatric Research, 1978, 12, 793-796.	2.3	27
57	Maturation of carbonic anhydrase IV expression in rabbit kidney. American Journal of Physiology - Renal Physiology, 2001, 280, F895-F903.	2.7	24
58	Role of hensin in mediating the adaptation of the cortical collecting duct to metabolic acidosis. Current Opinion in Nephrology and Hypertension, 2005, 14, 383-388.	2.0	24
59	Carbonic anhydrase II and IV mRNA in rabbit nephron segments: stimulation during metabolic acidosis. American Journal of Physiology - Renal Physiology, 1998, 274, F259-F267.	2.7	22
60	A fork in the road of cell differentiation in the kidney tubule. Journal of Clinical Investigation, 2004, 113, 1528-1530.	8.2	22
61	Endothelin and nitric oxide mediate adaptation of the cortical collecting duct to metabolic acidosis. American Journal of Physiology - Renal Physiology, 2006, 291, F866-F873.	2.7	21
62	Insights into acidosis-induced regulation of SLC26A4 (pendrin) and SLC4A9 (AE4) transporters using three-dimensional morphometric analysis of Î²-intercalated cells. American Journal of Physiology - Renal Physiology, 2014, 307, F601-F611.	2.7	21
63	Nonlinear Trajectory of GFR in Children before RRT. Journal of the American Society of Nephrology: JASN, 2014, 25, 913-917.	6.1	21
64	SDF1 induction by acidosis from principal cells regulates intercalated cell subtype distribution. Journal of Clinical Investigation, 2015, 125, 4365-4374.	8.2	21
65	Nitric Oxide Production Modulates Cyclosporin A-Induced Distal Renal Tubular Acidosis in the Rat. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 840-845.	2.5	20
66	Reliability of Plasma Creatinine Measurement in Infants and Children. Clinical Pediatrics, 1986, 25, 569-572.	0.8	19
67	HIV therapy, metabolic and cardiovascular health are associated with glomerular hyperfiltration among men with and without HIV infection. Aids, 2014, 28, 377-386.	2.2	19
68	Recalibration of cystatin C using standardized material in Siemens nephelometers. Pediatric Nephrology, 2020, 35, 279-285.	1.7	19
69	Relationships of Measured Iohexol GFR and Estimated GFR With CKD-Related Biomarkers in Children and Adolescents. American Journal of Kidney Diseases, 2017, 70, 397-405.	1.9	18
70	Maturation of GFR in Term-Born Neonates: An Individual Participant Data Meta-Analysis. Journal of the American Society of Nephrology: JASN, 2022, 33, 1277-1292.	6.1	18
71	Urological Disorders in Chronic Kidney Disease in Children Cohort: Clinical Characteristics and Estimation of Glomerular Filtration Rate. Journal of Urology, 2011, 186, 1460-1466.	0.4	17
72	Postnatal development of carbonic anhydrase IV expression in rabbit kidney. American Journal of Physiology - Renal Physiology, 1999, 276, F510-F520.	2.7	16

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73	Cell-specific qRT-PCR of renal epithelial cells reveals a novel innate immune signature in murine collecting duct. American Journal of Physiology - Renal Physiology, 2018, 315, F812-F823.	2.7	16
74	Whole Transcriptome Analysis of Renal Intercalated Cells Predicts Lipopolysaccharide Mediated Inhibition of Retinoid X Receptor alpha Function. Scientific Reports, 2019, 9, 545.	3.3	16
75	Systematic review: associations of calcium intake, vitamin D intake, and physical activity with skeletal outcomes in people with Type 1 diabetes mellitus. Acta Diabetologica, 2019, 56, 1091-1102.	2.5	16
76	Longitudinal Formulas to Estimate GFR in Children with CKD. Clinical Journal of the American Society of Nephrology: CJASN, 2009, 4, 1724-1730.	4.5	15
77	Height: the missing link in estimating glomerular filtration rate in children and adolescents. Nephrology Dialysis Transplantation, 2014, 29, 944-947.	0.7	15
78	Mechanisms of HCO 3 â˜ secretion in the rabbit connecting segment. American Journal of Physiology - Renal Physiology, 1999, 277, F567-F574.	2.7	13
79	Galectin-3 mediates oligomerization of secreted hensin using its carbohydrate-recognition domain. American Journal of Physiology - Renal Physiology, 2013, 305, F90-F99.	2.7	13
80	Plasma Iohexol Clearance for Assessing Residual Kidney Function in Dialysis Patients. American Journal of Kidney Diseases, 2015, 66, 728-730.	1.9	13
81	Evidence of disordered calcium metabolism in adolescent girls with type 1 diabetes: An observational study using a dual-stable calcium isotope technique. Bone, 2017, 105, 184-190.	2.9	13
82	Multicenter Laboratory Comparison of Iohexol Measurement. journal of applied laboratory medicine, The, 2018, 2, 711-724.	1.3	13
83	Measured GFR by Utilizing Population Pharmacokinetic Methods to Determine Iohexol Clearance. Kidney International Reports, 2020, 5, 189-198.	0.8	13
84	Adaptation of the outer medullary collecting duct to metabolic acidosis in vitro. American Journal of Physiology - Renal Physiology, 1998, 275, F982-F990.	2.7	12
85	Plasticity of Intercalated Cell Polarity: Effect of Metabolic Acidosis. Nephron, 2001, 87, 304-313.	1.8	12
86	Rapid assessment of renal reserve in young adults by cystatin C. Scandinavian Journal of Clinical and Laboratory Investigation, 2013, 73, 265-268.	1.2	12
87	Acute Kidney Injury in Premature, Very Low-Birth-Weight Infants. Journal of Pediatric Intensive Care, 2016, 05, 069-078.	0.8	12
88	Acidosis induces antimicrobial peptide expression and resistance to uropathogenic E. coli infection in kidney collecting duct cells via HIF-1Î±. American Journal of Physiology - Renal Physiology, 2020, 318, F468-F474.	2.7	12
89	Factors Affecting Glomerular Filtration Rate, as Measured by Iohexol Disappearance, in Men with or at Risk for HIV Infection. PLoS ONE, 2014, 9, e86311.	2.5	12
90	Development of Function in the Metanephric Kidney. , 2003, , 267-325.		11

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91	HCO 3 â^' absorption in rabbit outer medullary collecting duct: role of luminal carbonic anhydrase. American Journal of Physiology - Renal Physiology, 1998, 274, F139-F147.	2.7	10
92	Metabolic acidosis stimulates the production of the antimicrobial peptide cathelicidin in rabbit urine. American Journal of Physiology - Renal Physiology, 2017, 313, F1061-F1067.	2.7	10
93	Distinct Î±-intercalated cell morphology and its modification by acidosis define regions of the collecting duct. American Journal of Physiology - Renal Physiology, 2015, 309, F464-F473.	2.7	9
94	Renal Response to a Protein Load in Healthy Young Adults as Determined by Iohexol Infusion Clearance, Cimetidine-Inhibited Creatinine Clearance, and Cystatin C Estimated Glomerular Filtration Rate. , 2017, 27, 275-281.		9
95	Iohexol-measured glomerular filtration rate in children and adolescents with chronic kidney disease: a pilot study comparing venous and finger stick methods. Pediatric Nephrology, 2019, 34, 459-464.	1.7	8
96	Estimation of Albumin-Creatinine Ratio From Protein-Creatinine Ratio in Urine of Children and Adolescents With CKD. American Journal of Kidney Diseases, 2021, 77, 824-827.	1.9	8
97	Racial Adjustment Adversely Affects Glomerular Filtration Estimates in Black Americans Living with HIV. Journal of the American Society of Nephrology: JASN, 2021, 32, 2143-2147.	6.1	8
98	Carbonic anhydrase XII mRNA encodes a hydratase that is differentially expressed along the rabbit nephron. American Journal of Physiology - Renal Physiology, 2003, 284, F399-F410.	2.7	7
99	Developmental loss, but not pharmacological suppression, of renal carbonic anhydrase 2 results in pyelonephritis susceptibility. American Journal of Physiology - Renal Physiology, 2020, 318, F1441-F1453.	2.7	7
100	Cross-Sectional and Longitudinal Performance of Creatinine- and Cystatin C-Based Estimating Equations Relative to Exogenously Measured Glomerular Filtration Rate in HIV-Positive and HIV-Negative Persons. Journal of Acquired Immune Deficiency Syndromes (1999), 2020, 85, e58-e66.	2.1	7
101	The Kallikrein-Kinin System in Sickle Cell Nephropathy: Does it Play a Role?. Journal of Pediatric Hematology/Oncology, 2006, 28, 111-114.	0.6	6
102	Renal function assessment in child and adolescent heart transplant recipients during routine cardiac catheterization. Pediatric Transplantation, 2014, 18, 757-763.	1.0	6
103	Self-reported Race, Serum Creatinine, Cystatin C, and GFR in Children and Young Adults With Pediatric Kidney Diseases: A Report From the Chronic Kidney Disease in Children (CKiD) Study. American Journal of Kidney Diseases, 2022, 80, 174-185.e1.	1.9	6
104	Diagnosis of distal renal tubular acidosis: use of furosemide plus fludrocortisone versus ammonium chloride. Nature Clinical Practice Nephrology, 2007, 3, 590-591.	2.0	5
105	Metabolic acidosis exacerbates pyelonephritis in mice prone to vesicoureteral reflux. Physiological Reports, 2020, 8, e14525.	1.7	5
106	Clinical assessment of renal function. , 2006, , 71-93.		3
107	Female Sex and Obesity Are Risk Factors for Inadequate Calcium Intake in Youth With Type 1 Diabetes. Frontiers in Clinical Diabetes and Healthcare, 2021, 2, .	0.8	2
108	Longitudinal changes in uric acid concentration and their relationship with chronic kidney disease progression in children and adolescents. Pediatric Nephrology, 2023, 38, 489-497.	1.7	2

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109	Cloning of Rabbit Cct6 and the Distribution of the Cct Complex in Mammalian Tissues. Nephron Experimental Nephrology, 2000, 8, 152-160.	2.2	1
110	Tests of Kidney Function in Children. , 2011, , 998-1008.		1
111	Lipopolysaccharide directly inhibits bicarbonate absorption by the renal outer medullary collecting duct. Scientific Reports, 2020, 10, 20548.	3.3	1
112	Low variability of plant protein intake in the CKiD cohort does not demonstrate changes in estimated GFR nor electrolyte balance. Pediatric Nephrology, 2022, 37, 1647-1655.	1.7	1
113	Commentary on â€œThe use of the artificial kidney in the treatment of uremiaâ€: Journal of Urban Health, 1998, 75, 919-921.	3.6	0
114	Overview, Structure and Function of the Nephron. , 2012, , 133-168.		0
115	Commentary. Clinical Chemistry, 2017, 63, 814-815.	3.2	0
116	The authors reply. Kidney International, 2018, 94, 828-829.	5.2	0