

George J Schwartz

List of Publications by Year in descending order

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116
papers

13,241
citations

81743

39
h-index

24179

110
g-index

130
all docs

130
docs citations

130
times ranked

10867
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.	3.0	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.	0.9	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.	0.9	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.	2.2	764
5	National Kidney Foundation'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.	1.0	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.	2.6	430
7	A simple estimate of glomerular filtration rate in full-term infants during the first year of life. Journal of Pediatrics, 1984, 104, 849-854.	0.9	415
8	A simple estimate of glomerular filtration rate in adolescent boys. Journal of Pediatrics, 1985, 106, 522-526.	0.9	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.	2.2	339
10	Plasticity of functional epithelial polarity. Nature, 1985, 318, 368-371.	13.7	317
11	Glomerular filtration rate measurement and estimation in chronic kidney disease. Pediatric Nephrology, 2007, 22, 1839-1848.	0.9	238
12	Glomerular filtration rate via plasma iohexol disappearance: Pilot study for chronic kidney disease in children. Kidney International, 2006, 69, 2070-2077.	2.6	215
13	Predictors of Rapid Progression of Glomerular and Nonglomerular Kidney Disease in Children and Adolescents: The Chronic Kidney Disease in Children (CKiD) Cohort. American Journal of Kidney Diseases, 2015, 65, 878-888.	2.1	215
14	Plasma creatinine and urea concentration in children: Normal values for age and sex. Journal of Pediatrics, 1976, 88, 828-830.	0.9	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.	0.9	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.	2.6	150
17	Measurement and Estimation of Glomerular Filtration Rate in Children. Advances in Chronic Kidney Disease, 2017, 24, 348-356.	0.6	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.	2.2	135

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19	Disordered FGF23 and Mineral Metabolism in Children with CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2014, 9, 344-353.	2.2	128
20	Age, Gender, and Race Effects on Cystatin C Levels in US Adolescents. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2008, 3, 1777-1785.	2.2	114
21	Hyperuricemia and Progression of CKD in Children and Adolescents: The Chronic Kidney Disease in Children (CKiD) Cohort Study. <i>American Journal of Kidney Diseases</i> , 2015, 66, 984-992.	2.1	105
22	Pediatric GFR Estimating Equations Applied to Adolescents in the General Population. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2011, 6, 1427-1435.	2.2	98
23	Effect of hydroxyurea treatment on renal function parameters: Results from the multicenter placebo-controlled BABY HUG clinical trial for infants with sickle cell anemia. <i>Pediatric Blood and Cancer</i> , 2012, 59, 668-674.	0.8	94
24	Renal intercalated cells are rather energized by a proton than a sodium pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7928-7933.	3.3	92
25	Acid incubation reverses the polarity of intercalated cell transporters, an effect mediated by hensin. <i>Journal of Clinical Investigation</i> , 2002, 109, 89-99.	3.9	76
26	Estimating residual kidney function in dialysis patients without urine collection. <i>Kidney International</i> , 2016, 89, 1099-1110.	2.6	71
27	Estimating Time to ESRD in Children With CKD. <i>American Journal of Kidney Diseases</i> , 2018, 71, 783-792.	2.1	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. <i>Kidney International</i> , 2018, 94, 170-177.	2.6	65
29	A portable fiberoptic ratiometric fluorescence analyzer provides rapid point-of-care determination of glomerular filtration rate in large animals. <i>Kidney International</i> , 2012, 81, 112-117.	2.6	64
30	Cyclosporin A produces distal renal tubular acidosis by blocking peptidyl prolyl cis-trans isomerase activity of cyclophilin. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, F40-F47.	1.3	59
31	Micro-method for the measurement of carbonic anhydrase activity in cellular homogenates. <i>Analytical Biochemistry</i> , 1988, 175, 289-297.	1.1	58
32	Optimizing iohexol plasma disappearance curves to measure the glomerular filtration rate in children with chronic kidney disease. <i>Kidney International</i> , 2010, 77, 65-71.	2.6	57
33	Albuminuria, Proteinuria, and Renal Disease Progression in Children with CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2017, 12, 912-920.	2.2	57
34	Estimating Kidney Function in HIV-Infected Adults in Kenya: Comparison to a Direct Measure of Glomerular Filtration Rate by Iohexol Clearance. <i>PLoS ONE</i> , 2013, 8, e69601.	1.1	55
35	Acid incubation reverses the polarity of intercalated cell transporters, an effect mediated by hensin. <i>Journal of Clinical Investigation</i> , 2002, 109, 89-99.	3.9	55
36	Does kL/PCr estimate GFR, or does GFR determine k?. <i>Pediatric Nephrology</i> , 1992, 6, 512-515.	0.9	48

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37	Universal GFR determination based on two time points during plasma iohexol disappearance. <i>Kidney International</i> , 2011, 80, 423-430.	2.6	48
38	Epidemiology of Skeletal Health in Type 1 Diabetes. <i>Current Osteoporosis Reports</i> , 2016, 14, 327-336.	1.5	46
39	Validation of creatinine assays utilizing HPLC and IDMS traceable standards in sera of children. <i>Pediatric Nephrology</i> , 2009, 24, 113-119.	0.9	41
40	Adaptation to metabolic acidosis and its recovery are associated with changes in anion exchanger distribution and expression in the cortical collecting duct. <i>Kidney International</i> , 2010, 78, 993-1005.	2.6	41
41	Depressive Symptoms in Children with Chronic Kidney Disease. <i>Journal of Pediatrics</i> , 2016, 168, 164-170.e1.	0.9	41
42	Secreted Cyclophilin A, a Peptidylprolyl cis-trans Isomerase, Mediates Matrix Assembly of Hensin, a Protein Implicated in Epithelial Differentiation. <i>Journal of Biological Chemistry</i> , 2009, 284, 6465-6475.	1.6	38
43	Postnatal maturation of the rabbit cortical collecting duct. <i>Pediatric Nephrology</i> , 1988, 2, 135-145.	0.9	35
44	Estimating and measuring glomerular filtration rate in children. <i>Current Opinion in Nephrology and Hypertension</i> , 2008, 17, 320-325.	1.0	35
45	HIV Viremia and T-Cell Activation Differentially Affect the Performance of Glomerular Filtration Rate Equations Based on Creatinine and Cystatin C. <i>PLoS ONE</i> , 2013, 8, e82028.	1.1	35
46	Role of basolateral carbonic anhydrase in proximal tubular fluid and bicarbonate absorption. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, F146-F154.	1.3	34
47	Carbonic anhydrase 2 deficiency leads to increased pyelonephritis susceptibility. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F869-F880.	1.3	34
48	Estimating GFR in Adult Patients with Hematopoietic Cell Transplant. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2015, 10, 601-610.	2.2	34
49	Carbonic anhydrase IV is expressed in H ⁺ -secreting cells of rabbit kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 278, F894-F904.	1.3	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. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R1256-R1263.	0.9	32
51	Galectin-3 expression is induced in renal $\hat{1}^2$ -intercalated cells during metabolic acidosis. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F148-F158.	1.3	32
52	Kidney Disease Progression in Autosomal Recessive Polycystic Kidney Disease. <i>Journal of Pediatrics</i> , 2016, 171, 196-201.e1.	0.9	32
53	Postnatal Differentiation of Rabbit Collecting Duct Intercalated Cells ¹ . <i>Pediatric Research</i> , 1996, 39, 1-12.	1.1	31
54	Low Serum Bicarbonate and CKD Progression in Children. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2020, 15, 755-765.	2.2	30

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55	Physiology and molecular biology of renal carbonic anhydrase. <i>Journal of Nephrology</i> , 2002, 15 Suppl 5, S61-74.	0.9	28
56	p-Aminohippurate Transport in the Proximal Straight Tubule: Development and Substrate Stimulation. <i>Pediatric Research</i> , 1978, 12, 793-796.	1.1	27
57	Maturation of carbonic anhydrase IV expression in rabbit kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, F895-F903.	1.3	24
58	Role of hensenin in mediating the adaptation of the cortical collecting duct to metabolic acidosis. <i>Current Opinion in Nephrology and Hypertension</i> , 2005, 14, 383-388.	1.0	24
59	Carbonic anhydrase II and IV mRNA in rabbit nephron segments: stimulation during metabolic acidosis. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 274, F259-F267.	1.3	22
60	A fork in the road of cell differentiation in the kidney tubule. <i>Journal of Clinical Investigation</i> , 2004, 113, 1528-1530.	3.9	22
61	Endothelin and nitric oxide mediate adaptation of the cortical collecting duct to metabolic acidosis. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, F866-F873.	1.3	21
62	Insights into acidosis-induced regulation of SLC26A4 (pendrin) and SLC4A9 (AE4) transporters using three-dimensional morphometric analysis of \hat{I}^2 -intercalated cells. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F601-F611.	1.3	21
63	Nonlinear Trajectory of GFR in Children before RRT. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 913-917.	3.0	21
64	SDF1 induction by acidosis from principal cells regulates intercalated cell subtype distribution. <i>Journal of Clinical Investigation</i> , 2015, 125, 4365-4374.	3.9	21
65	Nitric Oxide Production Modulates Cyclosporin A-Induced Distal Renal Tubular Acidosis in the Rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 305, 840-845.	1.3	20
66	Reliability of Plasma Creatinine Measurement in Infants and Children. <i>Clinical Pediatrics</i> , 1986, 25, 569-572.	0.4	19
67	HIV therapy, metabolic and cardiovascular health are associated with glomerular hyperfiltration among men with and without HIV infection. <i>Aids</i> , 2014, 28, 377-386.	1.0	19
68	Recalibration of cystatin C using standardized material in Siemens nephelometers. <i>Pediatric Nephrology</i> , 2020, 35, 279-285.	0.9	19
69	Relationships of Measured Iohexol GFR and Estimated GFR With CKD-Related Biomarkers in Children and Adolescents. <i>American Journal of Kidney Diseases</i> , 2017, 70, 397-405.	2.1	18
70	Maturation of GFR in Term-Born Neonates: An Individual Participant Data Meta-Analysis. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 1277-1292.	3.0	18
71	Urological Disorders in Chronic Kidney Disease in Children Cohort: Clinical Characteristics and Estimation of Glomerular Filtration Rate. <i>Journal of Urology</i> , 2011, 186, 1460-1466.	0.2	17
72	Postnatal development of carbonic anhydrase IV expression in rabbit kidney. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, F510-F520.	1.3	16

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73	Cell-specific qRT-PCR of renal epithelial cells reveals a novel innate immune signature in murine collecting duct. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F812-F823.	1.3	16
74	Whole Transcriptome Analysis of Renal Intercalated Cells Predicts Lipopolysaccharide Mediated Inhibition of Retinoid X Receptor alpha Function. <i>Scientific Reports</i> , 2019, 9, 545.	1.6	16
75	Systematic review: associations of calcium intake, vitamin D intake, and physical activity with skeletal outcomes in people with Type 1 diabetes mellitus. <i>Acta Diabetologica</i> , 2019, 56, 1091-1102.	1.2	16
76	Longitudinal Formulas to Estimate GFR in Children with CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2009, 4, 1724-1730.	2.2	15
77	Height: the missing link in estimating glomerular filtration rate in children and adolescents. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 944-947.	0.4	15
78	Mechanisms of HCO ₃ ⁻ secretion in the rabbit connecting segment. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, F567-F574.	1.3	13
79	Galectin-3 mediates oligomerization of secreted hensin using its carbohydrate-recognition domain. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F90-F99.	1.3	13
80	Plasma Iohexol Clearance for Assessing Residual Kidney Function in Dialysis Patients. <i>American Journal of Kidney Diseases</i> , 2015, 66, 728-730.	2.1	13
81	Evidence of disordered calcium metabolism in adolescent girls with type 1 diabetes: An observational study using a dual-stable calcium isotope technique. <i>Bone</i> , 2017, 105, 184-190.	1.4	13
82	Multicenter Laboratory Comparison of Iohexol Measurement. <i>Journal of Applied Laboratory Medicine</i> , 2018, 2, 711-724.	0.6	13
83	Measured GFR by Utilizing Population Pharmacokinetic Methods to Determine Iohexol Clearance. <i>Kidney International Reports</i> , 2020, 5, 189-198.	0.4	13
84	Adaptation of the outer medullary collecting duct to metabolic acidosis in vitro. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 275, F982-F990.	1.3	12
85	Plasticity of Intercalated Cell Polarity: Effect of Metabolic Acidosis. <i>Nephron</i> , 2001, 87, 304-313.	0.9	12
86	Rapid assessment of renal reserve in young adults by cystatin C. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2013, 73, 265-268.	0.6	12
87	Acute Kidney Injury in Premature, Very Low-Birth-Weight Infants. <i>Journal of Pediatric Intensive Care</i> , 2016, 05, 069-078.	0.4	12
88	Acidosis induces antimicrobial peptide expression and resistance to uropathogenic <i>E. coli</i> infection in kidney collecting duct cells via HIF-1 α . <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F468-F474.	1.3	12
89	Factors Affecting Glomerular Filtration Rate, as Measured by Iohexol Disappearance, in Men with or at Risk for HIV Infection. <i>PLoS ONE</i> , 2014, 9, e86311.	1.1	12
90	Development of Function in the Metanephric Kidney. , 2003, , 267-325.		11

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91	HCO ₃ ⁻ absorption in rabbit outer medullary collecting duct: role of luminal carbonic anhydrase. American Journal of Physiology - Renal Physiology, 1998, 274, F139-F147.	1.3	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.	1.3	10
93	Distinct α -intercalated cell morphology and its modification by acidosis define regions of the collecting duct. American Journal of Physiology - Renal Physiology, 2015, 309, F464-F473.	1.3	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.	0.9	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.	2.1	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.	3.0	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.	1.3	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.	1.3	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.	0.9	7
101	The Kallikrein-Kinin System in Sickle Cell Nephropathy: Does it Play a Role?. Journal of Pediatric Hematology/Oncology, 2006, 28, 111-114.	0.3	6
102	Renal function assessment in child and adolescent heart transplant recipients during routine cardiac catheterization. Pediatric Transplantation, 2014, 18, 757-763.	0.5	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.	2.1	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.	0.7	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, .	0.3	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.	0.9	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.	2.4	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.	1.6	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.	0.9	1
113	Commentary on "The use of the artificial kidney in the treatment of uremia" Journal of Urban Health, 1998, 75, 919-921.	1.8	0
114	Overview, Structure and Function of the Nephron. , 2012, , 133-168.		0
115	Commentary. Clinical Chemistry, 2017, 63, 814-815.	1.5	0
116	The authors reply. Kidney International, 2018, 94, 828-829.	2.6	0