

Carolyn A Ecelbarger

List of Publications by Year in descending order

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96
papers

3,354
citations

126708

33
h-index

143772

57
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139
all docs

139
docs citations

139
times ranked

2544
citing authors

#	ARTICLE	IF	CITATIONS
1	Vasopressin-mediated regulation of epithelial sodium channel abundance in rat kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 279, F46-F53.	1.3	203
2	Congestive heart failure in rats is associated with increased expression and targeting of aquaporin-2 water channel in collecting duct. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 5450-5455.	3.3	182
3	Renal aquaporins. <i>Kidney International</i> , 1996, 49, 1712-1717.	2.6	140
4	Rosiglitazone Activates Renal Sodium- and Water-Reabsorptive Pathways and Lowers Blood Pressure in Normal Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 308, 426-433.	1.3	128
5	Sex Chromosome Effects Unmasked in Angiotensin II-Induced Hypertension. <i>Hypertension</i> , 2010, 55, 1275-1282.	1.3	120
6	Regulation of the Abundance of Renal Sodium Transporters and Channels by Vasopressin. <i>Experimental Neurology</i> , 2001, 171, 227-234.	2.0	116
7	Generation and phenotype of mice harboring a nonsense mutation in the V2 vasopressin receptor gene. <i>Journal of Clinical Investigation</i> , 2000, 106, 1361-1371.	3.9	106
8	Concentrating defect in experimental nephrotic syndrome: Altered expression of aquaporins and thick ascending limb Na ⁺ transporters. <i>Kidney International</i> , 1998, 54, 170-179.	2.6	105
9	Insulin's impact on renal sodium transport and blood pressure in health, obesity, and diabetes. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F974-F984.	1.3	102
10	Regulation of Thick Ascending Limb Ion Transporter Abundance in Response to Altered Acid/Base Intake. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 935-942.	3.0	93
11	Increased renal Na-K-ATPase, NCC, and $\text{I}^2\text{-ENaC}$ abundance in obese Zucker rats. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 281, F639-F648.	1.3	89
12	Regulation of Thick Ascending Limb Transport by Vasopressin. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 628-634.	3.0	84
13	Regulation of blood pressure, the epithelial sodium channel (ENaC), and other key renal sodium transporters by chronic insulin infusion in rats. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F1055-F1064.	1.3	82
14	Reduced Expression of Insulin Receptors in the Kidneys of Insulin-Resistant Rats. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 2661-2671.	3.0	80
15	Diabetic nephropathy is associated with decreased circulating estradiol levels and imbalance in the expression of renal estrogen receptors. <i>Gender Medicine</i> , 2005, 2, 227-237.	1.4	78
16	Urinary Exosomal microRNA-451-5p Is a Potential Early Biomarker of Diabetic Nephropathy in Rats. <i>PLoS ONE</i> , 2016, 11, e0154055.	1.1	77
17	Detection of Na ⁺ Transporter Proteins in Urine. <i>Journal of the American Society of Nephrology: JASN</i> , 2000, 11, 2128-2132.	3.0	76
18	Impaired sodium excretion and increased blood pressure in mice with targeted deletion of renal epithelial insulin receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6469-6474.	3.3	75

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19	Deletion of the Insulin Receptor in the Proximal Tubule Promotes Hyperglycemia. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 1209-1214.	3.0	73
20	Impaired aquaporin and urea transporter expression in rats with adriamycin-induced nephrotic syndrome. See Editorial by Berl, p 1418. <i>Kidney International</i> , 1998, 53, 1244-1253.	2.6	67
21	Dysregulation of renal salt and water transport proteins in diabetic Zucker rats. <i>Kidney International</i> , 2002, 61, 2099-2110.	2.6	62
22	Increased Abundance of Distal Sodium Transporters in Rat Kidney during Vasopressin Escape. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 207-217.	3.0	60
23	Trafficking of ENaC subunits in response to acute insulin in mouse kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F178-F185.	1.3	59
24	Increased renal ENaC subunit and sodium transporter abundances in streptozotocin-induced type 1 diabetes. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, F1125-F1137.	1.3	55
25	Effects of dietary fat, NaCl, and fructose on renal sodium and water transporter abundances and systemic blood pressure. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, F1204-F1212.	1.3	55
26	Temporal adjustment of the juxtaglomerular apparatus during sustained inhibition of proximal reabsorption. <i>Journal of Clinical Investigation</i> , 1999, 104, 1149-1158.	3.9	55
27	Regulation of Potassium Channel Kir 1.1 (ROMK) Abundance in the Thick Ascending Limb of Henle's Loop. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 10-18.	3.0	54
28	Regulation of the renal thiazide-sensitive Na-Cl cotransporter, blood pressure, and natriuresis in obese Zucker rats treated with rosiglitazone. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, F442-F450.	1.3	51
29	¹⁷ β Estradiol attenuates streptozotocin-induced diabetes and regulates the expression of renal sodium transporters. <i>Kidney International</i> , 2006, 69, 471-480.	2.6	44
30	Increased blood pressure, aldosterone activity, and regional differences in renal ENaC protein during vasopressin escape. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, F1076-F1083.	1.3	42
31	Regulation of ENaC in mice lacking renal insulin receptors in the collecting duct. <i>FASEB Journal</i> , 2013, 27, 2723-2732.	0.2	41
32	Rosiglitazone Regulates ENaC and Na-K-2Cl Cotransporter (NKCC ₂) Abundance in the Obese Zucker Rat. <i>American Journal of Nephrology</i> , 2006, 26, 245-257.	1.4	36
33	Aldosterone infusion with high-NaCl diet increases blood pressure in obese but not lean Zucker rats. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, F597-F605.	1.3	36
34	Renal ENaC subunit, Na ⁺ -2Cl and Na ⁺ -Cl cotransporter abundances in aged, water-restricted F344 Å— Brown Norway rats. <i>Kidney International</i> , 2006, 69, 304-312.	2.6	33
35	Expression of salt and urea transporters in rat kidney during cisplatin-induced polyuria. <i>Kidney International</i> , 2001, 60, 2274-2282.	2.6	31
36	Time course of AQP-2 and ENaC regulation in the kidney in response to PPAR agonists associated with marked edema in rats. <i>Pharmacological Research</i> , 2008, 57, 383-392.	3.1	30

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37	Sex and Age Result in Differential Regulation of the Renal Thiazide-Sensitive NaCl Cotransporter and the Epithelial Sodium Channel in Angiotensin II-Infused Mice. <i>American Journal of Nephrology</i> , 2009, 30, 554-562.	1.4	30
38	Dietary Citrate and Kidney Function Affect Aluminum, Zinc and Iron Utilization in Rats. <i>Journal of Nutrition</i> , 1991, 121, 1755-1762.	1.3	29
39	Reduced Insulin Receptor Expression Enhances Proximal Tubule Gluconeogenesis. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 276-285.	1.2	29
40	Targeting renal purinergic signalling for the treatment of lithium-induced nephrogenic diabetes insipidus. <i>Acta Physiologica</i> , 2015, 214, 176-188.	1.8	28
41	Sex and body-type interactions in the regulation of renal sodium transporter levels, urinary excretion, and activity in lean and obese zucker rats. <i>Gender Medicine</i> , 2006, 3, 309-327.	1.4	27
42	Insulin Regulates Nitric Oxide Production in the Kidney Collecting Duct Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 5582-5591.	1.6	26
43	Sodium transporters in the distal nephron and disease implications. <i>Current Hypertension Reports</i> , 2006, 8, 158-165.	1.5	24
44	Increased renal β -ENaC and NCC abundance and elevated blood pressure are independent of hyperaldosteronism in vasopressin escape. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, F49-F57.	1.3	24
45	Single-tubule RNA-Seq uncovers signaling mechanisms that defend against hyponatremia in SIADH. <i>Kidney International</i> , 2018, 93, 128-146.	2.6	23
46	P2Y2 Receptor Promotes High-Fat Diet-Induced Obesity. <i>Frontiers in Endocrinology</i> , 2020, 11, 341.	1.5	23
47	Chronic Rosiglitazone Therapy Normalizes Expression of ACE1, SCD1 and other Genes in the Kidney of Obese Zucker Rats as Determined by Microarray Analysis. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2008, 116, 315-325.	0.6	22
48	Kidney Aquaporin-2 Expression during Escape from Antidiuresis Is Not Related to Plasma or Tissue Osmolality. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 2067-2075.	3.0	22
49	miR-451 Loaded Exosomes Are Released by the Renal Cells in Response to Injury and Associated With Reduced Kidney Function in Human. <i>Frontiers in Physiology</i> , 2020, 11, 234.	1.3	19
50	Tissue Aluminum Accumulation and Toxic Consequences in Rats Chronically Fed Aluminum with and without Citrate. <i>Journal of Agricultural and Food Chemistry</i> , 1994, 42, 2220-2224.	2.4	18
51	Clopidogrel attenuates lithium-induced alterations in renal water and sodium channels/transporters in mice. <i>Purinergic Signalling</i> , 2015, 11, 507-518.	1.1	17
52	DHT causes liver steatosis via transcriptional regulation of SCAP in normal weight female mice. <i>Journal of Endocrinology</i> , 2021, 250, 49-65.	1.2	17
53	Importance of kidney function and duration of exposure on aluminum accumulation in mature rats. <i>Nutrition Research</i> , 1994, 14, 577-586.	1.3	14
54	Sex Differences in Renal Nitric Oxide Synthase, NAD(P)H Oxidase, and Blood Pressure in Obese Zucker Rats. <i>Gender Medicine</i> , 2007, 4, 214-229.	1.4	14

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55	Chapter 6 Regulation of renal salt and water transporters during vasopressin escape. Progress in Brain Research, 2002, 139, 75-84.	0.9	13
56	Azilsartan Improves Salt Sensitivity by Modulating the Proximal Tubular Na ⁺ -H ⁺ Exchanger-3 in Mice. PLoS ONE, 2016, 11, e0147786.	1.1	13
57	Deletion of insulin receptor in the proximal tubule and fasting augment albumin excretion. Journal of Cellular Biochemistry, 2019, 120, 10688-10696.	1.2	12
58	Aluminum retention by aged rats fed aluminum and treated with desferrioxamine. Toxicology Letters, 1994, 73, 249-257.	0.4	10
59	Prasugrel suppresses development of lithium-induced nephrogenic diabetes insipidus in mice. Purinergic Signalling, 2017, 13, 239-248.	1.1	10
60	Lithium treatment and remodeling of the collecting duct. American Journal of Physiology - Renal Physiology, 2006, 291, F37-F38.	1.3	9
61	Chronic Insulin Infusion Down-Regulates Circulating and Urinary Nitric Oxide (NO) Levels Despite Molecular Changes in the Kidney Predicting Greater Endothelial NO Synthase Activity in Mice. International Journal of Molecular Sciences, 2018, 19, 2880.	1.8	8
62	Absence of renal enlargement in fructose-fed proximal-tubule-select insulin receptor (IR), insulin-like-growth factor receptor (IGF1R) double knockout mice. Physiological Reports, 2016, 4, e13052.	0.7	8
63	Candesartan Differentially Regulates Epithelial Sodium Channel in Cortex Versus Medulla of Streptozotocin-Induced Diabetic Rats. Journal of Epithelial Biology & Pharmacology, 2009, 2, 23-29.	1.2	7
64	Targeted proteomics using immunoblotting technique for studying dysregulation of ion transporters in renal disorders. Expert Review of Proteomics, 2004, 1, 219-227.	1.3	5
65	Refining insulin signaling in the proximal tubule at the level of the substrate. Kidney International, 2020, 97, 256-258.	2.6	5
66	Proteomics and Sodium Transport. , 2003, 141, 124-141.		4
67	Role of the aldosterone-sensitive distal nephron in the sodium retention associated with liver cirrhosis. Kidney International, 2006, 69, 10-12.	2.6	4
68	Molecular Biology and Gene Regulation of Vasopressin. , 2009, , 225-248.		3
69	Sex Differences in Renal Physiology and Pathophysiology. , 2016, , 105-124.		3
70	Insulin receptor localization and regulation in rat kidney. FASEB Journal, 2006, 20, A1169.	0.2	3
71	Caloric Restriction and Cardiovascular Health: the Good, the Bad, and the Renin-Angiotensin System. Physiology, 2021, 36, 220-234.	1.6	2
72	Sex differences in blood pressure and kidney sodium transporters and channels in response to high salt diet in lean and obese Zucker rats. FASEB Journal, 2006, 20, A338.	0.2	2

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73	Rosiglitazone induces renal cellular acidosis.. FASEB Journal, 2006, 20, A1223.	0.2	2
74	P2Y2 Receptor Facilitates High-fat diet Induced Insulin Resistance. FASEB Journal, 2015, 29, 805.7.	0.2	2
75	Increased systolic blood pressure and defective pressure-natriuresis in mice lacking the insulin receptor in the thick ascending limb through collecting duct. FASEB Journal, 2007, 21, A1194.	0.2	1
76	Increase in renal proximal tubule GLUT5 and ketohexokinase in male mice, but not female mice, in response to high-fructose feeding may contribute to sex differences in renal responses (1135.3). FASEB Journal, 2014, 28, 1135.3.	0.2	1
77	Molecular Biology and Gene Regulation. , 2018, , 95-116.		0
78	Diabetic Kidney Disease Represents a Locus of Opportunity. Frontiers in Physiology, 2021, 12, 650503.	1.3	0
79	Insulin receptor (InsR) deletion from renal tubule reduces kidney size and upregulates gluconeogenic capacity of the proximal tubule in mice. FASEB Journal, 2021, 35, .	0.2	0
80	Metabolic, renal, and cardiovascular effects of selective estrogen receptor agonists. FASEB Journal, 2006, 20, A1169.	0.2	0
81	Sex differences in the renal and cardiovascular responses to aldosterone: role of nitric oxide. FASEB Journal, 2006, 20, A1194.	0.2	0
82	Acute insulin infusion effects on ENaC subunits in mice. FASEB Journal, 2006, 20, A1225.	0.2	0
83	Sex and Age Differences in Renal Ability to Conserve Water and Sodium in F344 x Brown Norway Rats. FASEB Journal, 2006, 20, A338.	0.2	0
84	Candesartan differentially regulates distal sodium transporters and channel subunits in cortex versus medulla in streptozotocin-induced diabetic rats.. FASEB Journal, 2007, 21, A1331.	0.2	0
85	The abundance of medullary Na-Cl cotransporter (NKCC2) is increased by high-fat feeding and reduced by Tempol in Fisher 344 X Brown Norway (F344BN, F1) rats.. FASEB Journal, 2007, 21, A1195.	0.2	0
86	Sex differences in sodium transporter and channel expression in mice after angiotensin II infusion.. FASEB Journal, 2007, 21, A1416.	0.2	0
87	Candesartan restored the altered renal insulin receptor protein and cytokine profile, and reduces nephropathy in the obese Zucker rat despite its propensity to worsen diabetes. FASEB Journal, 2009, 23, 604.2.	0.2	0
88	Role of the sex chromosomal complement (XX or XY) to impact blood pressure and natriuresis in the model of aldosterone escape. FASEB Journal, 2012, 26, 1096.6.	0.2	0
89	Impaired kidney function and anatomy in dietarily-rescued calcineurin (alpha isoform) knockout mice. FASEB Journal, 2012, 26, 868.19.	0.2	0
90	Altered thick ascending limb function in aging female mice consuming high quantities of fructose-sweetened water. FASEB Journal, 2013, 27, 1115.13.	0.2	0

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91	Role of the collecting duct insulin receptor in fluid homeostasis in response to high- and low-NaCl diets. FASEB Journal, 2013, 27, 911.9.	0.2	0
92	Effects of 17 β -estradiol replacement in a model of renal ischemia in the ovariectomized female apolipoprotein E knockout mouse (1135.2). FASEB Journal, 2014, 28, 1135.2.	0.2	0
93	Role of insulin and insulin-like growth factor (IGF) receptors in renal proximal tubule (PT) phosphorus handling. FASEB Journal, 2015, 29, 970.1.	0.2	0
94	Effects of fructose feeding on mice with dual knockout of the insulin and insulin-like growth factor, type 1 (IGF1) receptors from proximal tubule. FASEB Journal, 2015, 29, 961.4.	0.2	0
95	Inducible renal tubule insulin receptor (IR) knockout affects sodium transporter/channel expression and activity in a sex-dependent manner. FASEB Journal, 2019, 33, 864.7.	0.2	0
96	The increased expression of microRNAs 451, 638 and 362 in Urinary Exosomes of Human Subjects profiled as Diabetic and Hypertensive. FASEB Journal, 2019, 33, 716.5.	0.2	0