Sebastian Bachmann

List of Publications by Year
in descending order

87	3,121	147801	155660
papers	citations	31 h-index	55 g-index

88	88	88	3098
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Expression of nitric oxide synthase in kidney macula densa cells. Kidney International, 1992, 42, 1017-1019.	5.2	269
2	Transgenic rats carrying the mouse renin geneâ€"Morphological characterization of a low-renin hypertension model. Kidney International, 1992, 41, 24-36.	5.2	171
3	Localization of organic cation transporters OCT1 and OCT2 in rat kidney. American Journal of Physiology - Renal Physiology, 2000, 279, F679-F687.	2.7	161
4	Hypocalcemia and osteopathy in mice with kidneyâ€specific megalin gene defect. FASEB Journal, 2003, 17, 247-249.	0.5	154
5	Activation of the Bumetanide-sensitive Na+,K+,2Clâ^' Cotransporter (NKCC2) Is Facilitated by Tamm-Horsfall Protein in a Chloride-sensitive Manner. Journal of Biological Chemistry, 2011, 286, 30200-30210.	3.4	148
6	Intrarenal Renin Angiotensin System Revisited. Journal of Biological Chemistry, 2010, 285, 41935-41946.	3.4	128
7	Renal effects of Tamm-Horsfall protein (uromodulin) deficiency in mice. American Journal of Physiology - Renal Physiology, 2005, 288, F559-F567.	2.7	127
8	Key enzymes for renal prostaglandin synthesis: site-specific expression in rodent kidney (rat, mouse). American Journal of Physiology - Renal Physiology, 2003, 285, F19-F32.	2.7	116
9	Developmental expression of sodium entry pathways in rat nephron. American Journal of Physiology - Renal Physiology, 1999, 276, F367-F381.	2.7	91
10	Localization of thiazide-sensitive Na+-Clâ^' cotransport and associated gene products in mouse DCT. American Journal of Physiology - Renal Physiology, 2001, 281, F1028-F1035.	2.7	91
11	Abrogation of Protein Uptake through Megalin-Deficient Proximal Tubules Does Not Safeguard against Tubulointerstitial Injury. Journal of the American Society of Nephrology: JASN, 2007, 18, 1824-1834.	6.1	87
12	Kidney-Specific Inactivation of the Megalin Gene Impairs Trafficking of Renal Inorganic Sodium Phosphate Cotransporter (NaPi-IIa). Journal of the American Society of Nephrology: JASN, 2004, 15, 892-900.	6.1	86
13	SPAK Differentially Mediates Vasopressin Effects on Sodium Cotransporters. Journal of the American Society of Nephrology: JASN, 2013, 24, 407-418.	6.1	86
14	Cohen Syndrome-associated Protein COH1 Physically and Functionally Interacts with the Small GTPase RAB6 at the Golgi Complex and Directs Neurite Outgrowth. Journal of Biological Chemistry, 2015, 290, 3349-3358.	3.4	68
15	Renal expression of sodium transporters and aquaporin-2 in hypothyroid rats. American Journal of Physiology - Renal Physiology, 2003, 284, F1097-F1104.	2.7	67
16	Cellular Distribution and Function of Soluble Guanylyl Cyclase in Rat Kidney and Liver. Journal of the American Society of Nephrology: JASN, 2001, 12, 2209-2220.	6.1	67
17	Renal Na⁺-K⁺-Cl^{â^'}cotransporter activity and vasopressin-induced trafficking are lipid raft-dependent. American Journal of Physiology - Renal Physiology, 2008, 295, F789-F802.	2.7	66
18	New External Calibration Curves (ECCs) for the Estimation of Molecular Weights in Various Common NMR Solvents. Chemistry - A European Journal, 2016, 22, 8462-8465.	3.3	63

#	Article	IF	Citations
19	Solution structures of alkali metal cyclopentadienides in THF estimated by ECC-DOSY NMR-spectroscopy (incl. software). Chemical Communications, 2016, 52, 12861-12864.	4.1	58
20	Histotopography and ultrastructure of the thin limbs of the loop of Henle in the hamster. Cell and Tissue Research, 1982, 225, 111-127.	2.9	54
21	Deletion of von Hippelâ€“Lindau Protein Converts Renin-Producing Cells into Erythropoietin-Producing Cells. Journal of the American Society of Nephrology: JASN, 2013, 24, 433-444.	6.1	51
22	Immunohistochemically Detected Protein Nitration Indicates Sites of Renal Nitric Oxide Release in Goldblatt Hypertension. Hypertension, 1997, 30, 948-952.	2.7	50
23	OSR1-Sensitive Renal Tubular Phosphate Reabsorption. Kidney and Blood Pressure Research, 2012, 36, 149-161.	2.0	47
24	Renal Deletion of 12 kDa FK506-Binding Protein Attenuates Tacrolimus-Induced Hypertension. Journal of the American Society of Nephrology: JASN, 2016, 27, 1456-1464.	6.1	44
25	Correlation between the chemical composition of thermoresponsive nanogels and their interaction with the skin barrier. Journal of Controlled Release, 2016, 243, 323-332.	9.9	42
26	Role of lipid rafts in membrane delivery of renal epithelial Na+-K+-ATPase, thick ascending limb. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R1328-R1337.	1.8	40
27	Peritoneal morphology in children treated by continuous ambulatory peritoneal dialysis. Pediatric Nephrology, 1992, 6, 542-546.	1.7	35
28	Upregulation of juxtaglomerular NOS1 and COX-2 precedes glomerulosclerosis in fawn-hooded hypertensive rats. American Journal of Physiology - Renal Physiology, 2001, 280, F706-F714.	2.7	35
29	Marked reduction of Tamm-Horsfall protein synthesis in hyperprostaglandin E-syndrome. Kidney International, 1993, 44, 401-410.	5.2	34
30	WNK bodies cluster WNK4 and SPAK/OSR1 to promote NCC activation in hypokalemia. American Journal of Physiology - Renal Physiology, 2020, 318, F216-F228.	2.7	34
31	Effects of receptor-mediated endocytosis and tubular protein composition on volume retention in experimental glomerulonephritis. American Journal of Physiology - Renal Physiology, 2009, 296, F902-F911.	2.7	33
32	Optical Nanosensing of Lipid Accumulation due to Enzyme Inhibition in Live Cells. ACS Nano, 2019, 13, 9363-9375.	14.6	31
33	Estimation of the mtDNA mutation rate in aging mice by proteome analysis and mathematical modeling. Experimental Gerontology, 2006, 41, 11-24.	2.8	30
34	Calcineurin and Sorting-Related Receptor with A-Type Repeats Interact to Regulate the Renal Na+-K+-2Clâ^' Cotransporter. Journal of the American Society of Nephrology: JASN, 2016, 27, 107-119.	6.1	30
35	Epithelial COX-2 Expression Is Not Regulated By Nitric Oxide in Rodent Renal Cortex. Hypertension, 2002, 39, 848-853.	2.7	25
36	Annexin A2 Mediates Apical Trafficking of Renal Na+-K+-2Clâ^' Cotransporter. Journal of Biological Chemistry, 2014, 289, 9983-9997.	3.4	25

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37	Regulation of renal Na-(K)-Cl cotransporters by vasopressin. Pflugers Archiv European Journal of Physiology, 2017, 469, 889-897.	2.8	23
38	Low endogenous glucocorticoid allows induction of kidney cortical cyclooxygenase-2 during postnatal rat development. American Journal of Physiology - Renal Physiology, 2004, 286, F26-F37.	2.7	22
39	Renal and endocrine changes in rats with inherited stress-induced arterial hypertension (ISIAH). Histochemistry and Cell Biology, 2006, 125, 651-659.	1.7	22
40	Mechanisms of tubular volume retention in immune-mediated glomerulonephritis. Kidney International, 2009, 75, 699-710.	5.2	22
41	Tamm-Horsfall Protein Excretion during Chronic Alterations in Urinary Concentration and Protein Intake in the Rat. Kidney and Blood Pressure Research, 1991, 14, 236-245.	2.0	21
42	Selectively reduced expression of thick ascending limb Tamm-Horsfall protein in hypothyroid kidneys. Histochemistry and Cell Biology, 2004, 121, 319-327.	1.7	21
43	A Waterâ€Containing Organopotassium Compound Based on Bis(4,6â€tBuâ€benzoxazolâ€2â€yl)methanide and Its Unexpected Stability to Hydrolysis. Angewandte Chemie - International Edition, 2017, 56, 15141-15145.	13.8	21
44	A Novel Bulky Heteroaromaticâ€Substituted Methanide Mimicking NacNac: Bis(4,6â€tertâ€butylbenzoxazolâ€2â€yl)methanide in sâ€Block Metal Coordination. Chemistry - A European Journal, 2017, 23, 13141-13149.	3.3	21
45	Vasopressin Increases Urinary Acidification via V1a Receptors in Collecting Duct Intercalated Cells. Journal of the American Society of Nephrology: JASN, 2019, 30, 946-961.	6.1	19
46	Short-Term Functional Adaptation of Aquaporin-1 Surface Expression in the Proximal Tubule, a Component of Glomerulotubular Balance. Journal of the American Society of Nephrology: JASN, 2015, 26, 1269-1278.	6.1	17
47	Demonstration of the functional impact of vasopressin signaling in the thick ascending limb by a targeted transgenic rat approach. American Journal of Physiology - Renal Physiology, 2016, 311, F411-F423.	2.7	17
48	Preparation of Samples for Large-Scale Automated Electron Microscopy of Tissue and Cell Ultrastructure. Microscopy and Microanalysis, 2021, 27, 815-827.	0.4	16
49	Patients with hypokalemia develop WNK bodies in the distal convoluted tubule of the kidney. American Journal of Physiology - Renal Physiology, 2019, 316, F292-F300.	2.7	13
50	Moraxella catarrhalisinduces an immune response in the murine lung that is independent of human CEACAM5 expression and long-term smoke exposure. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L250-L261.	2.9	12
51	Modern field emission scanning electron microscopy provides new perspectives for imagingÂkidney ultrastructure. Kidney International, 2018, 94, 625-631.	5.2	12
52	Structural and molecular dissection of the juxtaglomerular apparatus: New aspects for the role of nitric oxide. Kidney International, 1998, 54, S29-S33.	5.2	11
53	Eine wasserhaltige Organokaliumverbindung basierend auf Bis(4,6â€tertâ€Butylbenzoxazolâ€2â€yl)methanid und ihre unerwartete HydrolysebestÃndigkeit. Angewandte Chemie, 2017, 129, 15337-15342.	2.0	11
54	Is salt-wasting the long awaited answer to the hyperuricaemia seen in uromodulin storage diseases?. Nephrology Dialysis Transplantation, 2006, 21, 2028-2029.	0.7	10

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55	Angiotensin II receptor blockade alleviates calcineurin inhibitor nephrotoxicity by restoring cyclooxygenase 2 expression in kidney cortex. Acta Physiologica, 2021, 232, e13612.	3.8	9
56	Altered Expression of Type II Sodium/Phosphate Contransporter in Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2000, 11, 1926-1932.	6.1	9
57	Caveolin 1 Promotes Renal Water and Salt Reabsorption. Scientific Reports, 2018, 8, 545.	3.3	8
58	Inverse correlation between vascular endothelial growth factor back-filtration and capillary filtration pressures. Nephrology Dialysis Transplantation, 2018, 33, 1514-1525.	0.7	7
59	Immunosuppressive calcineurin inhibitor cyclosporine AÂinduces proapoptotic endoplasmic reticulum stress in renal tubular cells. Journal of Biological Chemistry, 2022, 298, 101589.	3.4	7
60	Topically applied virus-like particles containing HIV-1 Pr55gag protein reach skin antigen-presenting cells after mild skin barrier disruption. Journal of Controlled Release, 2017, 268, 296-304.	9.9	6
61	Connexin43 is differentially distributed within renal vasculature and mediates profibrotic differentiation in medullary fibroblasts. American Journal of Physiology - Renal Physiology, 2021, 320, F17-F30.	2.7	5
62	A novel role for Tamm-Horsfall protein (uromodulin) in the renal tubule. Kidney International, 2018, 94, 652-655.	5.2	4
63	Hyperkalemia and blood pressure regulation. Nephrology Dialysis Transplantation, 2019, 34, iii26-iii35.	0.7	4
64	Cell localization and ontogeny of sodium transport pathways in the distal nephron: perspectives in function and failure. Current Opinion in Nephrology and Hypertension, 1999, 8, 31-38.	2.0	3
65	Vasopressin lowers renal epoxyeicosatrienoic acid levels by activating soluble epoxide hydrolase. American Journal of Physiology - Renal Physiology, 2016, 311, F1198-F1210.	2.7	2
66	WNK Bodies Develop in the Distal Convoluted Tubule of the Human Kidney in Chronic Hypokalemia. FASEB Journal, 2019, 33, 862.13.	0.5	1
67	Scanning electron microscopy of thin sections: A technique to overcome limitations in kidney ultrastructural research. Ultrastructural Pathology, 2017, 41, 119-120.	0.9	0
68	From tubular sublimate nephropathy via urinary concentrating mechanism to glomerular diseaseâ€"Wilhelm Krizâ€™s contribution to modern nephrology. Pflugers Archiv European Journal of Physiology, 2017, 469, 847-857.	2.8	0
69	Vasopressin/PKAâ€•and PKCâ€•mediated translocation of renal Na+â€K+â€2Clâ€•cotransporter (NKCC2) depend on RhoAâ€•mediated organisation of actin cytoskeleton. FASEB Journal, 2006, 20, A450.	0.5	0
70	TRANSGENIC MICE EXPRESSING CRE RECOMBINASE UNDER THE CONTROL OF THE HUMAN RENIN PROMOTER. FASEB Journal, 2006, 20, A344.	0.5	0
71	Effect of iron oxide perfusion on renal micro vessel morphology, and dilatory function and endothelial mRNA expression of mouse aorta. FASEB Journal, 2008, 22, 761.26.	0.5	0
72	Annexin A1 mediates the effects of dexamethasone on macula densa cyclooxygenaseâ€2 expression. FASEB Journal, 2010, 24, 620.1.	0.5	0

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73	Regulation of Annexin A1 in the macula densa: association with neuronal nitric oxide synthase and cyclooxygenaseâ€2. FASEB Journal, 2010, 24, 620.2.	0.5	0
74	Localization and signaling of FPR2 in the kidney. FASEB Journal, 2011, 25, 666.11.	0.5	0
75	Annexin A1 inhibits macula densa Cyclooxygenase 2 and Nitric oxide Synthase 1 expression. FASEB Journal, 2011, 25, 1038.7.	0.5	0
76	Effect of Vasopressin on the renal distribution of Annexin A2 in Brattleboro rats. FASEB Journal, 2011, 25, 1038.14.	0.5	0
77	Role of SPAK in short term activation of kidney electroneutral cationâ€Cl â^' â€cotransporters by vasopressin. FASEB Journal, 2011, 25, 1038.21.	0.5	0
78	Vasopressin treatment lowers renal outer medullary epoxyeicosatrienoic acid levels in Brattleboro rats. FASEB Journal, 2011, 25, 665.30.	0.5	0
79	Vasopressin treatment causes widespread hypoxia in the renal medulla of Brattleboro rats. FASEB Journal, 2011, 25, 1038.13.	0.5	0
80	SPAK disruption increases the glomerular filtration rate. FASEB Journal, 2018, 32, .	0.5	0
81	Impact of vasopressin on cellâ€autonomous expression of membrane transport proteins in rat distal nephron. FASEB Journal, 2018, 32, .	0.5	0
82	Comparative analysis of V1a and V1b receptor distribution in the mammalian brain. FASEB Journal, 2018, 32, 783.2.	0.5	0
83	Vasopressin V1a Receptor of Renal Collecting Duct Intercalated Cells Mediates Urinary Acidification. FASEB Journal, 2018, 32, 623.1.	0.5	0
84	Metabolic stress directs WNK kinases to aggresomes for pooling and degradation in the distal convoluted tubule of the kidney. FASEB Journal, 2018, 32, 816.5.	0.5	0
85	Vasopressin V1a Receptor of Renal Collecting Duct Intercalated Cells Promotes Urinary Proton Secretion. FASEB Journal, 2019, 33, 862.20.	0.5	0
86	Cellâ€autonomous expression of membrane proteins in kidney thick ascending limb epithelium is vasopressinâ€dependent. FASEB Journal, 2019, 33, 862.15.	0.5	0
87	Vascular and glomerular vs. proximal tubular components in calcineurin inhibitorâ€related nephrotoxicity. FASEB Journal, 2022, 36, .	0.5	0