# Jens Titze

List of Publications by Year
in descending order



| 59 | 5,466 | 117453 | 143772 |
|---|---|---|---|
| papers | citations | 34 h-index | 57 g-index |

| 59 | 59 | 59 | 4391 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Macrophages regulate salt-dependent volume and blood pressure by a vascular endothelial growth factor-Câ€“dependent buffering mechanism. Nature Medicine, 2009, 15, 545-552. | 15.2 | 835 |
| 2 | Immune cells control skin lymphatic electrolyte homeostasis and blood pressure. Journal of Clinical Investigation, 2013, 123, 2803-2815. | 3.9 | 338 |
| 3 | <sup>23</sup> Na Magnetic Resonance Imaging-Determined Tissue Sodium in Healthy Subjects and Hypertensive Patients. Hypertension, 2013, 61, 635-640. | 1.3 | 332 |
| 4 | Long-Term Space Flight Simulation Reveals Infradian Rhythmicity in Human Na+ Balance. Cell Metabolism, 2013, 17, 125-131. | 7.2 | 294 |
| 5 | Glycosaminoglycan polymerization may enable osmotically inactive Na+ storage in the skin. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H203-H208. | 1.5 | 280 |
| 6 | Cutaneous Na+ Storage Strengthens the Antimicrobial Barrier Function of the Skin and Boosts Macrophage-Driven Host Defense. Cell Metabolism, 2015, 21, 493-501. | 7.2 | 252 |
| 7 | High salt reduces the activation of IL-4â€“ and IL-13â€“stimulated macrophages. Journal of Clinical Investigation, 2015, 125, 4223-4238. | 3.9 | 229 |
| 8 | Osmotically inactive skin Na<sup>+</sup>storage in rats. American Journal of Physiology - Renal Physiology, 2003, 285, F1108-F1117. | 1.3 | 217 |
| 9 | Agreement Between 24-Hour Salt Ingestion and Sodium Excretion in a Controlled Environment. Hypertension, 2015, 66, 850-857. | 1.3 | 176 |
| 10 | Mononuclear Phagocyte System Depletion Blocks Interstitial Tonicity-Responsive Enhancer Binding Protein/Vascular Endothelial Growth Factor C Expression and Induces Salt-Sensitive Hypertension in Rats. Hypertension, 2010, 55, 755-761. | 1.3 | 174 |
| 11 | High salt intake reprioritizes osmolyte and energy metabolism for body fluid conservation. Journal of Clinical Investigation, 2017, 127, 1944-1959. | 3.9 | 153 |
| 12 | Effects of dietary salt levels on monocytic cells and immune responses in healthy human subjects: a longitudinal study. Translational Research, 2015, 166, 103-110. | 2.2 | 142 |
| 13 | Spooky sodium balance. Kidney International, 2014, 85, 759-767. | 2.6 | 127 |
| 14 | Internal sodium balance in DOCA-salt rats: a body composition study. American Journal of Physiology - Renal Physiology, 2005, 289, F793-F802. | 1.3 | 114 |
| 15 | Increased salt consumption induces body water conservation and decreases fluid intake. Journal of Clinical Investigation, 2017, 127, 1932-1943. | 3.9 | 114 |
| 16 | Reduced osmotically inactive Na storage capacity and hypertension in the Dahl model. American Journal of Physiology - Renal Physiology, 2002, 283, F134-F141. | 1.3 | 113 |
| 17 | Sodium sensing in the interstitium and relationship to hypertension. Current Opinion in Nephrology and Hypertension, 2010, 19, 385-392. | 1.0 | 107 |
| 18 | Mobilization of osmotically inactive Na+ by growth and by dietary salt restriction in rats. American Journal of Physiology - Renal Physiology, 2007, 292, F1490-F1500. | 1.3 | 102 |

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|---|---|---|---|
| 19 | Sodium balance is not just a renal affair. Current Opinion in Nephrology and Hypertension, 2014, 23, 101-105. | 1.0 | 102 |
| 20 | Organ protection by SGLT2 inhibitors: role of metabolic energy and water conservation. Nature Reviews Nephrology, 2021, 17, 65-77. | 4.1 | 86 |
| 21 | Elevated tissue sodium deposition in patients with type 2 diabetes on hemodialysis detected by 23Na magnetic resonance imaging. Kidney International, 2018, 93, 1191-1197. | 2.6 | 82 |
| 22 | Ultra-longâ€“term human salt balance studies reveal interrelations between sodium, potassium, and chloride intake and excretion. American Journal of Clinical Nutrition, 2016, 104, 49-57. | 2.2 | 78 |
| 23 | Skin sodium measured with <sup>23</sup>Na MRI at 7.0 T. NMR in Biomedicine, 2015, 28, 54-62. | 1.6 | 74 |
| 24 | Sodium-, potassium-, chloride-, and bicarbonate-related effects on blood pressure and electrolyte homeostasis in deoxycorticosterone acetate-treated rats. American Journal of Physiology - Renal Physiology, 2008, 295, F1752-F1763. | 1.3 | 67 |
| 25 | Speculations on salt and the genesis of arterial hypertension. Kidney International, 2017, 91, 1324-1335. | 2.6 | 63 |
| 26 | A different view on sodium balance. Current Opinion in Nephrology and Hypertension, 2015, 24, 14-20. | 1.0 | 61 |
| 27 | Tissue sodium storage: evidence for kidney-like extrarenal countercurrent systems?. Pflugers Archiv European Journal of Physiology, 2015, 467, 551-558. | 1.3 | 60 |
| 28 | Macrophages in homeostatic immune function. Frontiers in Physiology, 2014, 5, 146. | 1.3 | 58 |
| 29 | Elementary immunology: Na+ as a regulator of immunity. Pediatric Nephrology, 2017, 32, 201-210. | 0.9 | 55 |
| 30 | Extrarenal Na + Balance, Volume, and Blood Pressure Homeostasis in Intact and Ovariectomized Deoxycorticosterone-Acetate Salt Rats. Hypertension, 2006, 47, 1101-1107. | 1.3 | 54 |
| 31 | Sodium and water handling during hemodialysis: new pathophysiologic insights and management approaches for improving outcomes in end-stage kidney disease. Kidney International, 2019, 95, 296-309. | 2.6 | 44 |
| 32 | Salt Sensitivity of Angiogenesis Inhibitionâ€“Induced Blood Pressure Rise. Hypertension, 2017, 69, 919-926. | 1.3 | 42 |
| 33 | HIF1A and NFAT5 coordinate Na<sup>+</sup>-boosted antibacterial defense via enhanced autophagy and autolysosomal targeting. Autophagy, 2019, 15, 1899-1916. | 4.3 | 39 |
| 34 | Aestivationmotifs explain hypertension and muscle mass loss in mice with psoriatic skin barrier defect. Acta Physiologica, 2021, 232, e13628. | 1.8 | 39 |
| 35 | Balancing wobbles in the body sodium. Nephrology Dialysis Transplantation, 2016, 31, 1078-1081. | 0.4 | 36 |
| 36 | Adaptive physiological water conservation explains hypertension and muscle catabolism in experimental chronic renal failure. Acta Physiologica, 2021, 232, e13629. | 1.8 | 36 |

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|---|---|---|---|
| 37 | Water-Free Na<sup>+</sup> Retention: Interaction with Hypertension and Tissue Hydration. Blood Purification, 2008, 26, 95-99. | 0.9 | 30 |
| 38 | Cutaneous control of blood pressure. Current Opinion in Nephrology and Hypertension, 2016, 25, 11-15. | 1.0 | 29 |
| 39 | Tissue sodium stores in peritoneal dialysis and hemodialysis patients determined by sodium-23 magnetic resonance imaging. Nephrology Dialysis Transplantation, 2021, 36, 1307-1317. | 0.4 | 27 |
| 40 | Hypertension, sodium retention, calcium excretion and osteopenia in Dahl rats. Journal of Hypertension, 2004, 22, 803-810. | 0.3 | 25 |
| 41 | Renal sympathetic nerve activity regulates cardiovascular energy expenditure in rats fed high salt. Hypertension Research, 2020, 43, 482-491. | 1.5 | 23 |
| 42 | NCX1 represents an ionic Na+ sensing mechanism in macrophages. PLoS Biology, 2020, 18, e3000722. | 2.6 | 22 |
| 43 | Taking Another â€œLookâ€•at Sodium. Canadian Journal of Cardiology, 2014, 30, 473-475. | 0.8 | 20 |
| 44 | Sodium Handling and Interaction in Numerous Organs. American Journal of Hypertension, 2020, 33, 687-694. | 1.0 | 20 |
| 45 | Impact of renal denervation on tissue Na+ content in treatment-resistant hypertension. Clinical Research in Cardiology, 2018, 107, 42-48. | 1.5 | 17 |
| 46 | Osteoprotective action of low-salt diet requires myeloid cellâ€“derived NFAT5. JCI Insight, 2019, 4, . | 2.3 | 16 |
| 47 | Diarrhea, nephrotic syndrome and hidradenitis suppurativa: an unusual case. Nephrology Dialysis Transplantation, 2003, 18, 192-194. | 0.4 | 15 |
| 48 | The Impact of Hyperosmolality on Activation and Differentiation of B Lymphoid Cells. Frontiers in Immunology, 2019, 10, 828. | 2.2 | 14 |
| 49 | Ex Vivo High Salt Activated Tumor-Primed CD4+T Lymphocytes Exert a Potent Anti-Cancer Response. Cancers, 2021, 13, 1690. | 1.7 | 5 |
| 50 | Low-Salt Diet Attenuates B-Cell- and Myeloid-Cell-Driven Experimental Arthritides by Affecting Innate as Well as Adaptive Immune Mechanisms. Frontiers in Immunology, 2021, 12, 765741. | 2.2 | 5 |
| 51 | Dietary Salt Accelerates Orthodontic Tooth Movement by Increased Osteoclast Activity. International Journal of Molecular Sciences, 2021, 22, 596. | 1.8 | 4 |
| 52 | The Contribution of Plasma Urea to Total Osmolality During Iatrogenic Fluid Reduction in Critically Ill Patients. Function, 2021, 3, zqab055. | 1.1 | 4 |
| 53 | Epicutaneous Application of Imiquimod to Model Psoriasis-Like Skin Disease Induces Water-Saving Aestivation Motifs and Vascular Inflammation. Journal of Investigative Dermatology, 2022, 142, 3117-3120.e2. | 0.3 | 4 |
| 54 | Dietary Sodium Intake and Risk of Cardiovascular Disease. JAMA Internal Medicine, 2015, 175, 1578. | 2.6 | 3 |

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|---|---|---|---|
| 55 | Hepatocellular carcinoma induces body mass loss in parallel with osmolyte and water retention in rats. Life Sciences, 2022, 289, 120192. | 2.0 | 2 |
| 56 | Tolvaptan induces body fluid loss and subsequent water conservation in normal rats. Journal of Pharmacological Sciences, 2022, 149, 115-123. | 1.1 | 2 |
| 57 | Low-Salt Diet Reduces Anti-CTLA4 Mediated Systemic Immune-Related Adverse Events while Retaining Therapeutic Efficacy against Breast Cancer. Biology, 2022, 11, 810. | 1.3 | 2 |
| 58 | Sodium First Approach, to Reset Our Mind for Improving Management of Sodium, Water, Volume and Pressure in Hemodialysis Patients, and to Reduce Cardiovascular Burden and Improve Outcomes. , 0, 2, . | | 2 |
| 59 | Dexamethasone induces sodium and water loss in skin. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2021, 94, 2-O-D3-4. | 0.0 | 0 |