

# Bruce A Molitoris

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

8,759  
citations

201385

27  
h-index

123241

61  
g-index

69  
all docs

69  
docs citations

69  
times ranked

10783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial injury and dysfunction: Role in the extension phase of acute renal failure. <i>Kidney International</i> , 2004, 66, 496-499.	2.6	317
2	siRNA Targeted to p53 Attenuates Ischemic and Cisplatin-Induced Acute Kidney Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1754-1764.	3.0	297
3	A novel method to determine specificity and sensitivity of the TUNEL reaction in the quantitation of apoptosis. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C1309-C1318.	2.1	183
4	In vivo multiphoton imaging of mitochondrial structure and function during acute kidney injury. <i>Kidney International</i> , 2013, 83, 72-83.	2.6	173
5	Renal Endothelial Injury and Microvascular Dysfunction in Acute Kidney Injury. <i>Seminars in Nephrology</i> , 2015, 35, 96-107.	0.6	167
6	Intravital multiphoton microscopy of dynamic renal processes. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, F1084-F1089.	1.3	155
7	Renal effects of atorvastatin and rosuvastatin in patients with diabetes who have progressive renal disease (PLANET I): a randomised clinical trial. <i>Lancet Diabetes and Endocrinology</i> , 2015, 3, 181-190.	5.5	114
8	Improving outcomes of acute kidney injury: report of an initiative. <i>Nature Clinical Practice Nephrology</i> , 2007, 3, 439-442.	2.0	112
9	Endothelial injury and dysfunction in ischemic acute renal failure. <i>Critical Care Medicine</i> , 2002, 30, S235-S240.	0.4	110
10	Rapid determination of renal filtration function using an optical ratiometric imaging approach. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, F1873-F1880.	1.3	90
11	Two-Photon Intravital Fluorescence Lifetime Imaging of the Kidney Reveals Cell-Type Specific Metabolic Signatures. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 2420-2430.	3.0	71
12	Actin cytoskeleton in ischemic acute renal failure. <i>Kidney International</i> , 2004, 66, 871-883.	2.6	67
13	Proximal Tubules Have the Capacity to Regulate Uptake of Albumin. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 482-494.	3.0	67
14	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
15	Technology Insight: biomarker development in acute kidney injury—what can we anticipate?. <i>Nature Clinical Practice Nephrology</i> , 2008, 4, 154-165.	2.0	63
16	Gentamicin Inhibits Renal Protein and Phospholipid Metabolism in Rats. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 114-123.	3.0	62
17	Rapid diagnosis and quantification of acute kidney injury using fluorescent ratio-metric determination of glomerular filtration rate in the rat. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 299, F1048-F1055.	1.3	52
18	Quantifying Glomerular Filtration Rates in Acute Kidney Injury: A Requirement for Translational Success. <i>Seminars in Nephrology</i> , 2016, 36, 31-41.	0.6	52

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19	A Novel Method for Rapid Bedside Measurement of GFR. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1609-1613.	3.0	50
20	Albumin uptake and processing by the proximal tubule: physiological, pathological, and therapeutic implications. <i>Physiological Reviews</i> , 2022, 102, 1625-1667.	13.1	45
21	Teprasiran, a Small Interfering RNA, for the Prevention of Acute Kidney Injury in High-Risk Patients Undergoing Cardiac Surgery: A Randomized Clinical Study. <i>Circulation</i> , 2021, 144, 1133-1144.	1.6	42
22	Pharmacophotonics: Utilizing multi-photon microscopy to quantify drug delivery and intracellular trafficking in the kidney. <i>Advanced Drug Delivery Reviews</i> , 2006, 58, 809-823.	6.6	31
23	Inhibition of $\alpha_2\beta_2$ Integrin Attenuates Vascular Permeability and Protects against Renal Ischemia-Reperfusion Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 1741-1752.	3.0	31
24	Hydrodynamic Isotonic Fluid Delivery Ameliorates Moderate-to-Severe Ischemia-Reperfusion Injury in Rat Kidneys. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 2081-2092.	3.0	31
25	Dynamic Multiphoton Microscopy: Focusing Light on Acute Kidney Injury. <i>Physiology</i> , 2014, 29, 334-342.	1.6	29
26	Intravital multiphoton microscopy as a tool for studying renal physiology and pathophysiology. <i>Methods</i> , 2017, 128, 20-32.	1.9	29
27	Exogenous Gene Transmission of Isocitrate Dehydrogenase 2 Mimics Ischemic Preconditioning Protection. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1154-1164.	3.0	29
28	Effects of biomechanical forces on signaling in the cortical collecting duct (CCD). <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F195-F204.	1.3	28
29	Mechanism of increased clearance of glycated albumin by proximal tubule cells. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F1089-F1102.	1.3	28
30	Nephrology research—the past, present and future. <i>Nature Reviews Nephrology</i> , 2015, 11, 677-687.	4.1	23
31	Shear stress is normalized in glomerular capillaries following $\alpha_1$ nephrectomy. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F588-F593.	1.3	22
32	Urinary Biomarkers. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1485-1488.	3.0	22
33	Finding the bottom and using it. <i>Intravital</i> , 2013, 2, e23674.	2.0	20
34	Renal blood flow in sepsis: a complex issue. <i>Critical Care</i> , 2005, 9, 327.	2.5	19
35	Protective vascular coagulation in response to bacterial infection of the kidney is regulated by bacterial lipid A and host CD147. <i>Pathogens and Disease</i> , 2018, 76, .	0.8	17
36	Intravital imaging of the kidney in a rat model of salt-sensitive hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F163-F173.	1.3	16

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37	Protective vascular coagulation in response to bacterial infection of the kidney is regulated by bacterial lipid A and host CD147. <i>Pathogens and Disease</i> , 2018, , .	0.8	16
38	Low-Flow Acute Kidney Injury. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2022, 17, 1039-1049.	2.2	16
39	Rethinking CKD Evaluation: Should We Be Quantifying Basal or Stimulated GFR to Maximize Precision and Sensitivity?. <i>American Journal of Kidney Diseases</i> , 2017, 69, 675-683.	2.1	14
40	Immunotoxin SS1P is rapidly removed by proximal tubule cells of kidney, whose damage contributes to albumin loss in urine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6086-6091.	3.3	13
41	Techniques to study nephron function: microscopy and imaging. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 458, 203-209.	1.3	12
42	Application of physiological shear stress to renal tubular epithelial cells. <i>Methods in Cell Biology</i> , 2019, 153, 43-67.	0.5	12
43	Contrast nephropathy: are short-term outcome measures adequate for quantification of long-term renal risk?. <i>Nature Clinical Practice Nephrology</i> , 2008, 4, 594-595.	2.0	11
44	Mechanism of how carbamylation reduces albumin binding to FcRn contributing to increased vascular clearance. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F114-F129.	1.3	11
45	Serum creatinine and cystatin C-based estimates of glomerular filtration rate are misleading in acute heart failure. <i>ESC Heart Failure</i> , 2021, 8, 3070-3081.	1.4	11
46	Real-time glomerular filtration rate: improving sensitivity, accuracy and prognostic value in acute kidney injury. <i>Current Opinion in Critical Care</i> , 2020, 26, 549-555.	1.6	11
47	Beyond Biomarkers: Machine Learning in Diagnosing Acute Kidney Injury. <i>Mayo Clinic Proceedings</i> , 2019, 94, 748-750.	1.4	10
48	Conditional Myh9 and Myh10 inactivation in adult mouse renal epithelium results in progressive kidney disease. <i>JCI Insight</i> , 2020, 5, .	2.3	10
49	Kidney Mentoring and Assessment Program for Students: a guide for engaging medical students in nephrology. <i>CKJ: Clinical Kidney Journal</i> , 2019, 12, 761-766.	1.4	9
50	The Indiana Oâ€™Brien Center for Advanced Renal Microscopic Analysis. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F671-F682.	1.3	8
51	Fluorescent Imaging and Microscopy for Dynamic Processes in Rats. <i>Methods in Molecular Biology</i> , 2019, 2018, 151-175.	0.4	8
52	Discordance between estimated and measured changes in plasma volume among patients with acute heart failure. <i>ESC Heart Failure</i> , 2022, 9, 66-76.	1.4	7
53	Screening for kidney diseaseâ€”a lost opportunity. <i>Nature Reviews Nephrology</i> , 2014, 10, 6-8.	4.1	6
54	Altered O-glycomes of Renal Brush-Border Membrane in Model Rats with Chronic Kidney Diseases. <i>Biomolecules</i> , 2021, 11, 1560.	1.8	5

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55	Changes in the Expression of Renal Brush Border Membrane N-Glycome in Model Rats with Chronic Kidney Diseases. <i>Biomolecules</i> , 2021, 11, 1677.	1.8	4
56	Quantifying Dynamic Kidney Processes Utilizing Multi-Photon Microscopy. , 2007, 156, 227-235.		3
57	ASN Presidential Address 2013: Innovation and Individualizationâ€”The Path Forward for Nephrology. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 893-897.	3.0	3
58	Renal Endothelium. , 2007, , 1271-1277.		2
59	The Distribution of Blood in Renal Glomerular Capillaries Is a New Physiological Parameter, Which Is Affected by Diabetes and ACEâ€™inhibition. <i>FASEB Journal</i> , 2019, 33, 748.11.	0.2	1
60	Intravital Multiphoton Microscopy as a Tool for Studying Renal Physiology, Pathophysiology and Therapeutics. <i>Frontiers in Physiology</i> , 2022, 13, 827280.	1.3	1
61	Response to Letter to the editor regarding â€™Discordance between estimated and measured changes in plasma volume among patients with acute heart failureâ€™™. <i>ESC Heart Failure</i> , 2022, , .	1.4	1
62	Novel CRISPR/Cas9 Munich Wistar FrÃ™mter rat model carrying diseaseâ€™causing mutant Actn4 demonstrates saltâ€™sensitive hypertension. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
63	APP-112-PM <i>af fãf`è...ŽçS»æãf çãfãf «ã«ãšã,ã†p53siRNAã`è...Žè™šè¡çã†çÆæµã,ã@ãã,æŠã`ã™ã,(ç.ã1/4šè?ãã;œããÖãfã,1ã,žã</i>		
64	Quantification of Renal Albumin Filtration and FcRnâ€™Mediated Transcytosis via 2â€™Photon Microscopy. <i>FASEB Journal</i> , 2010, 24, 818.2.	0.2	0
65	Novel role(s) for Nonmuscle Myosin 2 isoforms Myh9 and Myh10 in renal epithelial cells and tubular disease.. <i>FASEB Journal</i> , 2018, 32, lb447.	0.2	0
66	Using 2-Photon Microscopy to Quantify the Effects of Chronic Unilateral Ureteral Obstruction on Glomerular Processes. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	0
67	Editorial: Proceedings of the 2021 Indiana O'Brien Center Microscopy Workshop. <i>Frontiers in Physiology</i> , 2022, 13, 891526.	1.3	0