

Jennifer R Charlton

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,886
citations

304743

22
h-index

182427

51
g-index

60
all docs

60
docs citations

60
times ranked

2323
citing authors

#	ARTICLE	IF	CITATIONS
1	Incidence and outcomes of neonatal acute kidney injury (AWAKEN): a multicentre, multinational, observational cohort study. <i>The Lancet Child and Adolescent Health</i> , 2017, 1, 184-194.	5.6	453
2	Neonatal Acute Kidney Injury. <i>Pediatrics</i> , 2015, 136, e463-e473.	2.1	384
3	A basic science view of acute kidney injury biomarkers. <i>Nephrology Dialysis Transplantation</i> , 2014, 29, 1301-1311.	0.7	221
4	Short-Term Gestation, Long-Term Risk: Prematurity and Chronic Kidney Disease. <i>Pediatrics</i> , 2013, 131, 1168-1179.	2.1	198
5	Recognition and Reporting of AKI in Very Low Birth Weight Infants. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2014, 9, 2036-2043.	4.5	197
6	Nephrotoxic medication exposure in very low birth weight infants. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2014, 27, 1485-1490.	1.5	127
7	A developmental approach to the prevention of hypertension and kidney disease: a report from the Low Birth Weight and Nephron Number Working Group. <i>Lancet, The</i> , 2017, 390, 424-428.	13.7	125
8	Assessment of Worldwide Acute Kidney Injury Epidemiology in Neonates: Design of a Retrospective Cohort Study. <i>Frontiers in Pediatrics</i> , 2016, 4, 68.	1.9	101
9	Incidence and Risk Factors of Early Onset Neonatal AKI. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2019, 14, 184-195.	4.5	101
10	Follow-up of Acute kidney injury in Neonates during Childhood Years (FANCY): a prospective cohort study. <i>Pediatric Nephrology</i> , 2017, 32, 1067-1076.	1.7	88
11	MRI-based glomerular morphology and pathology in whole human kidneys. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1381-F1390.	2.7	87
12	Association Between Early Caffeine Citrate Administration and Risk of Acute Kidney Injury in Preterm Neonates. <i>JAMA Pediatrics</i> , 2018, 172, e180322.	6.2	71
13	Advances in Neonatal Acute Kidney Injury. <i>Pediatrics</i> , 2021, 148, .	2.1	57
14	Phenotyping by magnetic resonance imaging nondestructively measures glomerular number and volume distribution in mice with and without nephron reduction. <i>Kidney International</i> , 2016, 89, 498-505.	5.2	52
15	Late onset neonatal acute kidney injury: results from the AWAKEN Study. <i>Pediatric Research</i> , 2019, 85, 339-348.	2.3	52
16	Nephron number and its determinants in early life: a primer. <i>Pediatric Nephrology</i> , 2014, 29, 2299-2308.	1.7	51
17	Caffeine Exposure and Risk of Acute Kidney Injury in a Retrospective Cohort of Very Low Birth Weight Neonates. <i>Journal of Pediatrics</i> , 2016, 172, 63-68.e1.	1.8	43
18	Measuring rat kidney glomerular number and size in vivo with MRI. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F399-F406.	2.7	42

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19	Biocompatibility of ferritin-based nanoparticles as targeted MRI contrast agents. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1735-1745.	3.3	33
20	Efficient Small Blob Detection Based on Local Convexity, Intensity and Shape Information. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1127-1137.	8.9	32
21	Preterm birth and neonatal acute kidney injury: implications on adolescent and adult outcomes. <i>Journal of Perinatology</i> , 2020, 40, 1286-1295.	2.0	30
22	Nephron loss detected by MRI following neonatal acute kidney injury in rabbits. <i>Pediatric Research</i> , 2020, 87, 1185-1192.	2.3	28
23	In vivo measurements of kidney glomerular number and size in healthy and Os/+ mice using MRI. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F865-F873.	2.7	24
24	Nephron number and its determinants: a 2020 update. <i>Pediatric Nephrology</i> , 2021, 36, 797-807.	1.7	24
25	Magnetic resonance imaging accurately tracks kidney pathology and heterogeneity in the transition from acute kidney injury to chronic kidney disease. <i>Kidney International</i> , 2021, 99, 173-185.	5.2	20
26	Improved small blob detection in 3D images using jointly constrained deep learning and Hessian analysis. <i>Scientific Reports</i> , 2020, 10, 326.	3.3	19
27	Is acute kidney injury a harbinger for chronic kidney disease?. <i>Current Opinion in Pediatrics</i> , 2018, 30, 236-240.	2.0	18
28	Evolution of the urinary proteome during human renal development and maturation: variations with gestational and postnatal age. <i>Pediatric Research</i> , 2012, 72, 179-185.	2.3	17
29	Metabolic risk factors in nondiabetic adolescents with glomerular hyperfiltration. <i>Nephrology Dialysis Transplantation</i> , 2017, 32, gfw231.	0.7	15
30	Beyond the tubule: pathological variants of <i>LRP2</i> , encoding the megalin receptor, result in glomerular loss and early progressive chronic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F988-F999.	2.7	13
31	Pediatric Kidney Disease. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2014, 9, 1141-1143.	4.5	12
32	U-Net with optimal thresholding for small blob detection in medical images. , 2019, , .		12
33	Mapping vascular and glomerular pathology in a rabbit model of neonatal acute kidney injury using <i>MRI</i> . <i>Anatomical Record</i> , 2020, 303, 2716-2728.	1.4	12
34	Neonatal Acute Kidney Injury: Diagnosis, Exposures, and Long-term Outcomes. <i>NeoReviews</i> , 2018, 19, e322-e336.	0.8	11
35	Estimating Nephron Number from Biopsies: Impact on Clinical Studies. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 39-48.	6.1	9
36	MRI-Detectable Nanoparticles: The Potential Role in the Diagnosis of and Therapy for Chronic Kidney Disease. <i>Advances in Chronic Kidney Disease</i> , 2013, 20, 479-487.	1.4	8

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37	Measuring the intrarenal distribution of glomerular volumes from histological sections. American Journal of Physiology - Renal Physiology, 2016, 310, F1328-F1336.	2.7	8
38	Image analysis techniques to map pyramids, pyramid structure, glomerular distribution, and pathology in the intact human kidney from 3-D MRI. American Journal of Physiology - Renal Physiology, 2021, 321, F293-F304.	2.7	8
39	Use of Cationized Ferritin Nanoparticles to Measure Renal Glomerular Microstructure with MRI. Methods in Molecular Biology, 2016, 1397, 67-79.	0.9	8
40	Diagnosis and Treatment of Acute Kidney Injury in Pediatrics. Current Treatment Options in Pediatrics, 2016, 2, 56-68.	0.6	7
41	Mapping nephron mass in vivo using positron emission tomography. American Journal of Physiology - Renal Physiology, 2021, 320, F183-F192.	2.7	7
42	Small Blob Detector Using Bi-Threshold Constrained Adaptive Scales. IEEE Transactions on Biomedical Engineering, 2021, 68, 2654-2665.	4.2	7
43	Pre-operative renal volume predicts peak creatinine after congenital heart surgery in neonates. Cardiology in the Young, 2014, 24, 831-839.	0.8	6
44	Chronic Kidney Disease: A Life Course Health Development Perspective. , 2018, , 375-401.		6
45	Immature megalin expression in the preterm neonatal kidney is associated with urinary loss of vitamin carrier proteins. Pediatric Research, 2019, 85, 405-411.	2.3	5
46	The Human Kidney at Birth: Structure and Function in Transition. Current Clinical Pathology, 2014, , 49-58.	0.0	5
47	Developmental Origins of CKD: Big Problems From Small Packages. American Journal of Kidney Diseases, 2018, 71, 3-5.	1.9	4
48	Low hemoglobin levels are independently associated with neonatal acute kidney injury: a report from the AWAKEN Study Group. Pediatric Research, 2021, 89, 922-931.	2.3	4
49	Premature differentiation of nephron progenitor cell and dysregulation of gene pathways critical to kidney development in a model of preterm birth. Scientific Reports, 2021, 11, 21667.	3.3	4
50	Black Specks in Dialysis Fluid: An Unusual Case of Peritonitis in a Pediatric Patient on Peritoneal Dialysis. Dialysis and Transplantation, 2010, 39, 445-448.	0.2	3
51	Mapping kidney tubule diameter ex vivo by diffusion MRI. American Journal of Physiology - Renal Physiology, 2021, 320, F934-F946.	2.7	3
52	Maternal Hypertension Disorders and Neonatal Acute Kidney Injury: Results from the AWAKEN Study. American Journal of Perinatology, 2022, 0, .	1.4	3
53	Delivering on the potential of measuring nephron number in the clinic. Nature Reviews Nephrology, 2022, 18, 271-272.	9.6	3
54	Documentation of acute kidney injury at discharge from the neonatal intensive care unit and role of nephrology consultation. Journal of Perinatology, 2022, 42, 930-936.	2.0	3

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55	Response to Nephron Loss in Early Development. , 2017, , 1074-1080.e3.		2
56	Pathophysiology of Neonatal Acute Kidney Injury. , 2017, , 1668-1676.e3.		1
57	Delayed Umbilical Cord Clamping is Not Associated with Acute Kidney Injury in Very Low Birth Weight Neonates. American Journal of Perinatology, 2020, 37, 210-215.	1.4	1
58	Incidence and Risk Factors of Early Onset Neonatal AKI. Clinical Journal of the American Society of Nephrology: CJASN, 2019, 2019, 1-1.	4.5	1
59	Urine or Youâ€™re Out?. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 939-941.	4.5	0