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	Estimating Nephron Number from Biopsies: Impact on Clinical Studies. Journal of the American Society of Nephrology: JASN, 2022, 33, 39-48.	6.1	9
2	Maternal Hypertension Disorders and Neonatal Acute Kidney Injury: Results from the AWAKEN Study. American Journal of Perinatology, 2022, 0, .	1.4	3
3	Delivering on the potential of measuring nephron number in the clinic. Nature Reviews Nephrology, 2022, 18, 271-272.	9.6	3
4	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
5	Urine or Youâ€™re Out?. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 939-941.	4.5	0
6	Nephron number and its determinants: a 2020 update. Pediatric Nephrology, 2021, 36, 797-807.	1.7	24
7	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
8	Magnetic resonance imaging accurately tracks kidney pathology and heterogeneity in the transition from acute kidney injury to chronic kidney disease. Kidney International, 2021, 99, 173-185.	5.2	20
9	Mapping nephron mass in vivo using positron emission tomography. American Journal of Physiology - Renal Physiology, 2021, 320, F183-F192.	2.7	7
10	Mapping kidney tubule diameter ex vivo by diffusion MRI. American Journal of Physiology - Renal Physiology, 2021, 320, F934-F946.	2.7	3
11	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
12	Small Blob Detector Using Bi-Threshold Constrained Adaptive Scales. IEEE Transactions on Biomedical Engineering, 2021, 68, 2654-2665.	4.2	7
13	Advances in Neonatal Acute Kidney Injury. Pediatrics, 2021, 148, .	2.1	57
14	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
15	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
16	Nephron loss detected by MRI following neonatal acute kidney injury in rabbits. Pediatric Research, 2020, 87, 1185-1192.	2.3	28
17	Beyond the tubule: pathological variants of LRP2, encoding the megalin receptor, result in glomerular loss and early progressive chronic kidney disease. American Journal of Physiology - Renal Physiology, 2020, 319, F988-F999.	2.7	13
18	Improved small blob detection in 3D images using jointly constrained deep learning and Hessian analysis. Scientific Reports, 2020, 10, 326.	3.3	19

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19	Preterm birth and neonatal acute kidney injury: implications on adolescent and adult outcomes. Journal of Perinatology, 2020, 40, 1286-1295.	2.0	30
20	Mapping vascular and glomerular pathology in a rabbit model of neonatal acute kidney injury using <scp>MRI</scp>. Anatomical Record, 2020, 303, 2716-2728.	1.4	12
21	In vivo measurements of kidney glomerular number and size in healthy and Os/+ mice using MRI. American Journal of Physiology - Renal Physiology, 2019, 317, F865-F873.	2.7	24
22	Incidence and Risk Factors of Early Onset Neonatal AKI. Clinical Journal of the American Society of Nephrology: CJASN, 2019, 14, 184-195.	4.5	101
23	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
24	Late onset neonatal acute kidney injury: results from the AWAKEN Study. Pediatric Research, 2019, 85, 339-348.	2.3	52
25	U-Net with optimal thresholding for small blob detection in medical images. , 2019, , .		12
26	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
27	Is acute kidney injury a harbinger for chronic kidney disease?. Current Opinion in Pediatrics, 2018, 30, 236-240.	2.0	18
28	Developmental Origins of CKD: Big Problems From Small Packages. American Journal of Kidney Diseases, 2018, 71, 3-5.	1.9	4
29	Chronic Kidney Disease: A Life Course Health Development Perspective. , 2018, , 375-401.		6
30	Association Between Early Caffeine Citrate Administration and Risk of Acute Kidney Injury in Preterm Neonates. JAMA Pediatrics, 2018, 172, e180322.	6.2	71
31	Measuring rat kidney glomerular number and size in vivo with MRI. American Journal of Physiology - Renal Physiology, 2018, 314, F399-F406.	2.7	42
32	Neonatal Acute Kidney Injury: Diagnosis, Exposures, and Long-term Outcomes. NeoReviews, 2018, 19, e322-e336.	0.8	11
33	Metabolic risk factors in nondiabetic adolescents with glomerular hyperfiltration. Nephrology Dialysis Transplantation, 2017, 32, gfw231.	0.7	15
34	A developmental approach to the prevention of hypertension and kidney disease: a report from the Low Birth Weight and Nephron Number Working Group. Lancet, The, 2017, 390, 424-428.	13.7	125
35	Follow-up of Acute kidney injury in Neonates during Childhood Years (FANCY): a prospective cohort study. Pediatric Nephrology, 2017, 32, 1067-1076.	1.7	88
36	Incidence and outcomes of neonatal acute kidney injury (AWAKEN): a multicentre, multinational, observational cohort study. The Lancet Child and Adolescent Health, 2017, 1, 184-194.	5.6	453

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37	Response to Nephron Loss in Early Development. , 2017, , 1074-1080.e3.		2
38	Pathophysiology of Neonatal Acute Kidney Injury. , 2017, , 1668-1676.e3.		1
39	Assessment of Worldwide Acute Kidney Injury Epidemiology in Neonates: Design of a Retrospective Cohort Study. Frontiers in Pediatrics, 2016, 4, 68.	1.9	101
40	Biocompatibility of ferritin-based nanoparticles as targeted MRI contrast agents. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1735-1745.	3.3	33
41	Caffeine Exposure and Risk of Acute Kidney Injury in a Retrospective Cohort of Very Low Birth Weight Neonates. Journal of Pediatrics, 2016, 172, 63-68.e1.	1.8	43
42	Measuring the intrarenal distribution of glomerular volumes from histological sections. American Journal of Physiology - Renal Physiology, 2016, 310, F1328-F1336.	2.7	8
43	Diagnosis and Treatment of Acute Kidney Injury in Pediatrics. Current Treatment Options in Pediatrics, 2016, 2, 56-68.	0.6	7
44	Efficient Small Blob Detection Based on Local Convexity, Intensity and Shape Information. IEEE Transactions on Medical Imaging, 2016, 35, 1127-1137.	8.9	32
45	Phenotyping by magnetic resonance imaging nondestructively measures glomerular number and volume distribution in mice with and without nephron reduction. Kidney International, 2016, 89, 498-505.	5.2	52
46	Use of Cationized Ferritin Nanoparticles to Measure Renal Glomerular Microstructure with MRI. Methods in Molecular Biology, 2016, 1397, 67-79.	0.9	8
47	Neonatal Acute Kidney Injury. Pediatrics, 2015, 136, e463-e473.	2.1	384
48	Recognition and Reporting of AKI in Very Low Birth Weight Infants. Clinical Journal of the American Society of Nephrology: CJASN, 2014, 9, 2036-2043.	4.5	197
49	Nephrotoxic medication exposure in very low birth weight infants. Journal of Maternal-Fetal and Neonatal Medicine, 2014, 27, 1485-1490.	1.5	127
50	Pre-operative renal volume predicts peak creatinine after congenital heart surgery in neonates. Cardiology in the Young, 2014, 24, 831-839.	0.8	6
51	Nephron number and its determinants in early life: a primer. Pediatric Nephrology, 2014, 29, 2299-2308.	1.7	51
52	A basic science view of acute kidney injury biomarkers. Nephrology Dialysis Transplantation, 2014, 29, 1301-1311.	0.7	221
53	Pediatric Kidney Disease. Clinical Journal of the American Society of Nephrology: CJASN, 2014, 9, 1141-1143.	4.5	12
54	MRI-based glomerular morphology and pathology in whole human kidneys. American Journal of Physiology - Renal Physiology, 2014, 306, F1381-F1390.	2.7	87

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55	The Human Kidney at Birth: Structure and Function in Transition. Current Clinical Pathology, 2014, , 49-58.	0.0	5
56	MRI-Detectable Nanoparticles: The Potential Role in the Diagnosis of and Therapy for Chronic Kidney Disease. Advances in Chronic Kidney Disease, 2013, 20, 479-487.	1.4	8
57	Short-Term Gestation, Long-Term Risk: Prematurity and Chronic Kidney Disease. Pediatrics, 2013, 131, 1168-1179.	2.1	198
58	Evolution of the urinary proteome during human renal development and maturation: variations with gestational and postnatal age. Pediatric Research, 2012, 72, 179-185.	2.3	17
59	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