Jay L Koyner

List of Publications by Year
in descending order

120	11,651	53794 45	28297 105
papers	citations	h-index	g-index

144	144	144	11146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discovery and validation of cell cycle arrest biomarkers in human acute kidney injury. Critical Care, 2013, 17, R25.	5.8	969
2	Acute kidney disease and renal recovery: consensus report of the Acute Disease Quality Initiative (ADQI) 16 Workgroup. Nature Reviews Nephrology, 2017, 13, 241-257.	9.6	946
3	Factors Associated With Death in Critically Ill Patients With Coronavirus Disease 2019 in the US. JAMA Internal Medicine, 2020, 180, 1436.	5.1	711
4	The Outcome of Neutrophil Gelatinase-Associated Lipocalin-Positive Subclinical Acute Kidney Injury. Journal of the American College of Cardiology, 2011, 57, 1752-1761.	2.8	597
5	Postoperative Biomarkers Predict Acute Kidney Injury and Poor Outcomes after Adult Cardiac Surgery. Journal of the American Society of Nephrology: JASN, 2011, 22, 1748-1757.	6.1	575
6	COVID-19-associated acute kidney injury: consensus report of the 25th Acute Disease Quality Initiative (ADQI) Workgroup. Nature Reviews Nephrology, 2020, 16, 747-764.	9.6	466
7	Validation of Cell-Cycle Arrest Biomarkers for Acute Kidney Injury Using Clinical Adjudication. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 932-939.	5.6	402
8	Sepsis associated acute kidney injury. BMJ: British Medical Journal, 2019, 364, k4891.	2.3	380
9	Postoperative Biomarkers Predict Acute Kidney Injury and Poor Outcomes after Pediatric Cardiac Surgery. Journal of the American Society of Nephrology: JASN, 2011, 22, 1737-1747.	6.1	327
10	Urinary cystatin C as an early biomarker of acute kidney injury following adult cardiothoracic surgery. Kidney International, 2008, 74, 1059-1069.	5.2	320
11	Urinary Biomarkers in the Clinical Prognosis and Early Detection of Acute Kidney Injury. Clinical Journal of the American Society of Nephrology: CJASN, 2010, 5, 2154-2165.	4.5	296
12	Pathophysiology of COVID-19-associated acute kidney injury. Nature Reviews Nephrology, 2021, 17, 751-764.	9.6	280
13	Development and Standardization of a Furosemide Stress Test to Predict the Severity of Acute Kidney Injury. Critical Care, 2013, 17, R207.	5.8	265
14	Controversies in acute kidney injury: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Conference. Kidney International, 2020, 98, 294-309.	5.2	254
15	Biomarkers Predict Progression of Acute Kidney Injury after Cardiac Surgery. Journal of the American Society of Nephrology: JASN, 2012, 23, 905-914.	6.1	244
16	The Development of a Machine Learning Inpatient Acute Kidney Injury Prediction Model*. Critical Care Medicine, 2018, 46, 1070-1077.	0.9	214
17	Furosemide Stress Test and Biomarkers for the Prediction of AKI Severity. Journal of the American Society of Nephrology: JASN, 2015, 26, 2023-2031.	6.1	205
18	Tissue Inhibitor Metalloproteinase-2 (TIMP-2)â‹…IGF-Binding Protein-7 (IGFBP7) Levels Are Associated with Adverse Long-Term Outcomes in Patients with AKI. Journal of the American Society of Nephrology: JASN, 2015, 26, 1747-1754.	6.1	196

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19	Performance of Kidney Injury Molecule-1 and Liver Fatty Acid-Binding Protein and Combined Biomarkers of AKI after Cardiac Surgery. Clinical Journal of the American Society of Nephrology: CJASN, 2013, 8, 1079-1088.	4.5	194
20	Cardiac and Vascular Surgeryâ€“Associated Acute Kidney Injury: The 20th International Consensus Conference of the ADQI (Acute Disease Quality Initiative) Group. Journal of the American Heart Association, 2018, 7, .	3.7	182
21	Clinical Use of the Urine Biomarker [TIMP-2]ÂÃ— [IGFBP7] forÂAcute Kidney Injury Risk Assessment. American Journal of Kidney Diseases, 2016, 68, 19-28.	1.9	172
22	Quality Improvement Goals for Acute Kidney Injury. Clinical Journal of the American Society of Nephrology: CJASN, 2019, 14, 941-953.	4.5	152
23	Urinary Biomarkers of AKI and Mortality 3 Years after Cardiac Surgery. Journal of the American Society of Nephrology: JASN, 2014, 25, 1063-1071.	6.1	144
24	Identification and validation of biomarkers of persistent acute kidney injury: the RUBY study. Intensive Care Medicine, 2020, 46, 943-953.	8.2	120
25	Differential Diagnosis of AKI in Clinical Practice by Functional and Damage Biomarkers: Workgroup Statements from the Tenth Acute Dialysis Quality Initiative Consensus Conference. Contributions To Nephrology, 2013, 182, 30-44.	1.1	110
26	Human miRNome Profiling Identifies MicroRNAs Differentially Present in the Urine after Kidney Injury. Clinical Chemistry, 2013, 59, 1742-1752.	3.2	107
27	Mechanical Ventilation and the Kidney. Blood Purification, 2010, 29, 52-68.	1.8	98
28	Promoting Kidney Function Recovery in Patients with AKI Requiring RRT. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 1859-1867.	4.5	98
29	Update on Perioperative Acute Kidney Injury. Anesthesia and Analgesia, 2018, 127, 1236-1245.	2.2	97
30	Postoperative acute kidney injury in adult non-cardiac surgery: joint consensus report of the Acute Disease Quality Initiative and PeriOperative Quality Initiative. Nature Reviews Nephrology, 2021, 17, 605-618.	9.6	94
31	Further characterization and high-resolution mapping of quantitative trait loci for ethanol-induced locomotor activity. Behavior Genetics, 2001, 31, 79-91.	2.1	93
32	Preoperative angiotensin-converting enzyme inhibitors and angiotensin receptor blocker use and acute kidney injury in patients undergoing cardiac surgery. Nephrology Dialysis Transplantation, 2013, 28, 2787-2799.	0.7	93
33	Serum Cystatin Câ€“ Versus Creatinine-Based Definitions of Acute Kidney Injury Following Cardiac Surgery: A Prospective Cohort Study. American Journal of Kidney Diseases, 2012, 60, 922-929.	1.9	91
34	Clinical Utility of Biomarkers of AKI in Cardiac Surgery and Critical Illness. Clinical Journal of the American Society of Nephrology: CJASN, 2013, 8, 1034-1042.	4.5	90
35	Outcomes of critically ill solid organ transplant patients with COVID-19 in the United States. American Journal of Transplantation, 2020, 20, 3061-3071.	4.7	89
36	Development of a Multicenter Wardâ€“Based AKI Prediction Model. Clinical Journal of the American Society of Nephrology: CJASN, 2016, 11, 1935-1943.	4.5	88

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37	Antioxidants. Nephron Experimental Nephrology, 2008, 109, e109-e117.	2.2	86
38	Preoperative Serum Brain Natriuretic Peptide and Risk of Acute Kidney Injury After Cardiac Surgery. Circulation, 2012, 125, 1347-1355.	1.6	81
39	Presurgical Serum Cystatin C and Risk of Acute Kidney Injury After Cardiac Surgery. American Journal of Kidney Diseases, 2011, 58, 366-373.	1.9	75
40	Internal and External Validation of a Machine Learning Risk Score for Acute Kidney Injury. JAMA Network Open, 2020, 3, e2012892.	5.9	69
41	Mechanical Ventilation and Lungâ€“Kidney Interactions. Clinical Journal of the American Society of Nephrology: CJASN, 2008, 3, 562-570.	4.5	66
42	Blood transfusions are associated with urinary biomarkers of kidney injury in cardiac surgery. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 726-732.	0.8	61
43	Relationship of Kidney Injury Biomarkers with Long-Term Cardiovascular Outcomes after Cardiac Surgery. Journal of the American Society of Nephrology: JASN, 2017, 28, 3699-3707.	6.1	59
44	The Daily Burden of Acute Kidney Injury: A Survey of US Nephrologists on World Kidney Day. American Journal of Kidney Diseases, 2014, 64, 394-401.	1.9	56
45	Interleukin-8 and Tumor Necrosis Factor Predict Acute Kidney Injury After Pediatric Cardiac Surgery. Annals of Thoracic Surgery, 2017, 104, 2072-2079.	1.3	49
46	Clinical use of [TIMP-2]â€¢[IGFBP7] biomarker testing to assess risk of acute kidney injury in critical care: guidance from an expert panel. Critical Care, 2019, 23, 225.	5.8	46
47	Use of Cell Cycle Arrest Biomarkers in Conjunction With Classical Markers of Acute Kidney Injury. Critical Care Medicine, 2019, 47, e820-e826.	0.9	46
48	Urinary Cystatin C and Acute Kidney Injury After Cardiac Surgery. American Journal of Kidney Diseases, 2013, 61, 730-738.	1.9	45
49	Identification and time dependence of quantitative trait loci for basal locomotor activity in the BXD recombinant inbred series and a B6D2 F2 intercross. Behavior Genetics, 2000, 30, 159-170.	2.1	42
50	First Post-Operative Urinary Kidney Injury Biomarkers and Association with the Duration of AKI in the TRIBE-AKI Cohort. PLoS ONE, 2016, 11, e0161098.	2.5	42
51	Drug management in acute kidney disease â€“ Report of the Acute Disease Quality Initiative XVI meeting. British Journal of Clinical Pharmacology, 2018, 84, 396-403.	2.4	42
52	Association of Postoperative Proteinuria with AKI after Cardiac Surgery among Patients at High Risk. Clinical Journal of the American Society of Nephrology: CJASN, 2012, 7, 1749-1760.	4.5	41
53	Association Between Preoperative Statin Use andÂAcute Kidney Injury Biomarkers in Cardiac Surgical Procedures. Annals of Thoracic Surgery, 2014, 97, 2081-2087.	1.3	41
54	The Association of Angiogenesis Markers With Acute Kidney Injury and Mortality After Cardiac Surgery. American Journal of Kidney Diseases, 2019, 74, 36-46.	1.9	38

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55	Urine Cystatin C as a Biomarker of Proximal Tubular Function Immediately after Kidney Transplantation. American Journal of Nephrology, 2011, 33, 407-413.	3.1	36
56	Common chronic conditions do not affect performance of cell cycle arrest biomarkers for risk stratification of acute kidney injury. Nephrology Dialysis Transplantation, 2016, 31, 1633-1640.	0.7	35
57	Results from the TRIBE-AKI Study found associations between post-operative blood biomarkers and risk of chronic kidney disease after cardiac surgery. Kidney International, 2021, 99, 716-724.	5.2	35
58	Effect of genetic cross on the detection of quantitative trait loci and a novel approach to mapping QTLs. Pharmacology Biochemistry and Behavior, 2000, 67, 767-772.	2.9	33
59	Optimal Role of the Nephrologist in the Intensive Care Unit. Blood Purification, 2017, 43, 68-77.	1.8	31
60	Identification of Distinct Clinical Subphenotypes in Critically Ill Patients With COVID-19. Chest, 2021, 160, 929-943.	0.8	31
61	Biomarkers in Acute Kidney Injury. Critical Care Clinics, 2015, 31, 633-648.	2.6	30
62	Risk Stratification for Acute Kidney Injury: Are Biomarkers Enough?. Advances in Chronic Kidney Disease, 2016, 23, 167-178.	1.4	28
63	Proenkephalin (PENK) as a Novel Biomarker for Kidney Function. journal of applied laboratory medicine, The, 2017, 2, 400-412.	1.3	27
64	The prognostic value of the furosemide stress test in predicting delayed graft function following deceased donor kidney transplantation. Biomarkers, 2018, 23, 61-69.	1.9	27
65	The impact of biomarkers of acute kidney injury on individual patient care. Nephrology Dialysis Transplantation, 2020, 35, 1295-1305.	0.7	27
66	Urinary glutathione S-transferases in the pathogenesis and diagnostic evaluation of acute kidney injury following cardiac surgery: a critical review. Current Opinion in Critical Care, 2010, 16, 550-555.	3.2	26
67	The Effects of Heart Failure on Renal Function. Cardiology Clinics, 2010, 28, 453-465.	2.2	26
68	Assessment and Diagnosis of Renal Dysfunction in the ICU. Chest, 2012, 141, 1584-1594.	0.8	26
69	Outpatient Dialysis for Patients with AKI. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 1868-1874.	4.5	24
70	Acute Kidney Injury and Mortality following Ventricular Assist Device Implantation. American Journal of Nephrology, 2014, 39, 195-203.	3.1	22
71	Association of T Cellâ€“Derived Inflammatory Cytokines With Acute Kidney Injury andÂMortality After Cardiac Surgery. Kidney International Reports, 2019, 4, 1689-1697.	0.8	22
72	Biomarkers for Acute Kidney Injury: Where Are We Today? Where Should We Go?. Clinical Chemistry, 2014, 60, 294-300.	3.2	21

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73	Chemical Analog-to-Digital Signal Conversion Based on Robust Threshold Chemistry and Its Evaluation in the Context of Microfluidics-Based Quantitative Assays. Journal of the American Chemical Society, 2013, 135, 14775-14783.	13.7	20
74	Severe Acute Respiratory Syndromeâ€“Associated Coronavirus 2 Infection and Organ Dysfunction in the ICU: Opportunities for Translational Research. , 2021, 3, e0374.		20
75	Quality of Care for Acute Kidney Disease: Current Knowledge Gaps and Future Directions. Kidney International Reports, 2020, 5, 1634-1642.	0.8	19
76	Variation in Best Practice Measures in Patients With Severe Hospital-Acquired Acute Kidney Injury: A Multicenter Study. American Journal of Kidney Diseases, 2021, 77, 547-549.	1.9	19
77	CSA-AKI: Incidence, Epidemiology, Clinical Outcomes, and Economic Impact. Journal of Clinical Medicine, 2021, 10, 5746.	2.4	18
78	Association of Perioperative Plasma Neutrophil Gelatinase-Associated Lipocalin Levels with 3-Year Mortality after Cardiac Surgery: A Prospective Observational Cohort Study. PLoS ONE, 2015, 10, e0129619.	2.5	17
79	Urinalysis findings and urinary kidney injury biomarker concentrations. BMC Nephrology, 2017, 18, 218.	1.8	17
80	Optimizing the Design and Analysis of Future AKI Trials. Journal of the American Society of Nephrology: JASN, 2022, 33, 1459-1470.	6.1	17
81	Urine Biomarkers and Perioperative Acute Kidney Injury: TheÂImpact of Preoperative Estimated GFR. American Journal of Kidney Diseases, 2015, 66, 1006-1014.	1.9	16
82	Urinary EGF and MCP-1 and risk of CKD after cardiac surgery. JCI Insight, 2021, 6, .	5.0	16
83	Entanglement of Sepsis, Chronic Kidney Disease, and Other Comorbidities in Patients Who Develop Acute Kidney Injury. Seminars in Nephrology, 2015, 35, 23-37.	1.6	13
84	Performance of a Standardized Clinical Assay for Urinary Câ€“C Motif Chemokine Ligand 14 (CCL14) for Persistent Severe Acute Kidney Injury. Kidney360, 2022, 3, 1158-1168.	2.1	13
85	Cytokine Clearances in Critically Ill Patients on Continuous Renal Replacement Therapy. Blood Purification, 2018, 46, 315-322.	1.8	12
86	Serial Urinary Tissue Inhibitor of Metalloproteinase-2 and Insulin-Like Growth Factor-Binding Protein 7 and the Prognosis for Acute Kidney Injury over the Course of Critical Illness. CardioRenal Medicine, 2019, 9, 358-369.	1.9	12
87	Patient-provider communications about pharmacogenomic results increase patient recall of medication changes. Pharmacogenomics Journal, 2019, 19, 528-537.	2.0	12
88	Use of stress tests in evaluating kidney disease. Current Opinion in Nephrology and Hypertension, 2017, 26, 31-35.	2.0	11
89	Artificial Intelligence for AKI!Now: Letâ€™s Not Await Platoâ€™s Utopian Republic. Kidney360, 2022, 3, 376-381.	2.1	11
90	Association of plasma-soluble ST2 and galectin-3 with cardiovascular events and mortality following cardiac surgery. American Heart Journal, 2020, 220, 253-263.	2.7	10

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91	Subclinical Acute Kidney Injury Is Acute Kidney Injury and Should Not Be Ignored. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 786-787.	5.6	10
92	Artificial Intelligence in Acute Kidney Injury: From Static to Dynamic Models. Advances in Chronic Kidney Disease, 2021, 28, 74-82.	1.4	10
93	Preparing for Renal Replacement Therapy in Patients with the Ebola Virus Disease. Blood Purification, 2014, 38, 276-285.	1.8	9
94	Predicting Acute Renal Injury in Cancer Patients Receiving Cisplatin Using Urinary Neutrophil Gelatinaseâ€Associated Lipocalin and Cystatin C. Clinical and Translational Science, 2018, 11, 420-427.	3.1	8
95	Performance of crisis standards of care guidelines in a cohort of critically ill COVID-19 patients in the United States. Cell Reports Medicine, 2021, 2, 100376.	6.5	8
96	Sepsis and Kidney Injury. Contributions To Nephrology, 2021, 199, 56-70.	1.1	8
97	Have biomarkers failed in acute kidney injury? No. Intensive Care Medicine, 2017, 43, 887-889.	8.2	6
98	Renal Considerations in COVID-19: Biology, Pathology, and Pathophysiology. ASAIO Journal, 2021, 67, 1087-1096.	1.6	5
99	Individualized acute kidney injury after care. Current Opinion in Critical Care, 2020, 26, 581-589.	3.2	5
100	Characterising acute kidney injury: The complementary roles of biomarkers of renal stress and renal function. Journal of Critical Care, 2022, 71, 154066.	2.2	5
101	Effect of blood pressure lowering on markers of kidney disease progression. Current Hypertension Reports, 2009, 11, 368-374.	3.5	4
102	Association of Peak Changes in Plasma Cystatin C and Creatinine With Death After Cardiac Operations. Annals of Thoracic Surgery, 2016, 101, 1395-1401.	1.3	4
103	Early versus delayed initiation of renal replacement therapy in cardiac-surgery associated acute kidney injury: an economic perspective. Journal of Critical Care, 2022, 69, 153977.	2.2	4
104	Fluid Overload and Mortality in Patients with Severe Acute Kidney Injury and Extracorporeal Membrane Oxygenation. Kidney360, 2020, 1, 232-240.	2.1	3
105	The Golden Hours of AKI. Clinical Journal of the American Society of Nephrology: CJASN, 2015, 10, 1311-1313.	4.5	2
106	Reconfiguring Health Care Delivery to Improve AKI Outcomes. Clinical Journal of the American Society of Nephrology: CJASN, 2017, 12, 1203-1205.	4.5	2
107	Kidney injury is not prevented by hydration alone. European Heart Journal, 2019, 40, 3179-3181.	2.2	2
108	Novel Use of Premixed Dialysate Bags during Water Supply Interruption in Acute Hospital Setting. Kidney360, 2021, 2, 339-343.	2.1	2

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109	Management of Respiratory Failure. Clinical Journal of the American Society of Nephrology: CJASN, 2022, 17, 572-580.	4.5	2
110	Autologous Creatinine Clearance in a Case of Necrotizing Fasciitis and Anuria. American Journal of Nephrology, 2012, 35, 225-229.	3.1	1
111	Compliance with Antibiotic Dosing Guidelines in Critically Ill Patients Receiving Renal Replacement Therapy. Journal of Pharmacy Technology, 2013, 29, 161-169.	1.0	1
112	Nephrohepatology: Managing the Nexus of Liver and Kidney Interactions. Advances in Chronic Kidney Disease, 2015, 22, 335-336.	1.4	1
113	Not All Sepsis-Associated Acute Kidney Injury Is the Same. Clinical Journal of the American Society of Nephrology: CJASN, 2020, 15, 1543-1545.	4.5	1
114	Case-based discussions in onco-nephrology. Journal of Onco-Nephrology, 2020, 4, 135-144.	0.6	1
115	Extracorporeal Blood Purification Is Appropriate in Critically Ill Patients with COVID-19 and Multiorgan Failure: COMMENTARY. Kidney360, 2022, 3, 423-425.	2.1	1
116	Acute Kidney Injury: A Modifiable Risk Factor for Cardiovascular Morbidity and Mortality. American Journal of Nephrology, 2015, 42, 282-284.	3.1	1
117	Biomarkers in acute kidney injury: thatâ€™s all the story?. Intensive Care Medicine, 2017, 43, 1931-1932.	8.2	0
118	Diagnostic Approach: Differential Diagnosis, Physical Exam, Lab Tests, Imaging, and Novel Biomarkers. , 2018, , 23-42.		0
119	Urine sediment exam provides more diagnostic information in AKI than novel urinary biomarkers: CON. Kidney360, 0, , 10.34067/KID.0004582021.	2.1	0
120	Acute Tubular Necrosis. , 0, , 97-109.		0