

Samuel N Heyman

List of Publications by Year in descending order

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104
papers

4,466
citations

109321

35
h-index

110387

64
g-index

132
all docs

132
docs citations

132
times ranked

4525
citing authors

#	ARTICLE	IF	CITATIONS
1	Early renal medullary hypoxic injury from radiocontrast and indomethacin. <i>Kidney International</i> , 1991, 40, 632-642.	5.2	266
2	Reactive Oxygen Species and the Pathogenesis of Radiocontrast-Induced Nephropathy. <i>Investigative Radiology</i> , 2010, 45, 188-195.	6.2	248
3	Renal Parenchymal Hypoxia, Hypoxia Adaptation, and the Pathogenesis of Radiocontrast Nephropathy. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2008, 3, 288-296.	4.5	194
4	Renal Parenchymal Hypoxia, Hypoxia Response and the Progression of Chronic Kidney Disease. <i>American Journal of Nephrology</i> , 2008, 28, 998-1006.	3.1	181
5	Potential Deleterious Effect of Furosemide in Radiocontrast Nephropathy. <i>Nephron</i> , 1992, 62, 413-415.	1.8	163
6	Experimental ischemiaâ€“reperfusion: biases and mythsâ€“the proximal vs. distal hypoxic tubular injury debate revisited. <i>Kidney International</i> , 2010, 77, 9-16.	5.2	153
7	Up-regulation of HIF in experimental acute renal failure: Evidence for a protective transcriptional response to hypoxia. <i>Kidney International</i> , 2005, 67, 531-542.	5.2	152
8	Hypoxia-inducible factor-2Î±-expressing interstitial fibroblasts are the only renal cells that express erythropoietin under hypoxia-inducible factor stabilization. <i>Kidney International</i> , 2010, 77, 312-318.	5.2	151
9	The Lung Macrophage in SARS-CoV-2 Infection: A Friend or a Foe?. <i>Frontiers in Immunology</i> , 2020, 11, 1312.	4.8	143
10	Animal models of acute tubular necrosis. <i>Current Opinion in Critical Care</i> , 2002, 8, 526-534.	3.2	115
11	Regulation of hypoxiaâ€“inducible factor in kidney disease. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013, 40, 148-157.	1.9	112
12	Regional alterations in renal haemodynamics and oxygenation: a role in contrast medium-induced nephropathy. <i>Nephrology Dialysis Transplantation</i> , 2005, 20, i6-i11.	0.7	108
13	In vitro and in vivo effects of tPA and PAI-1 on blood vessel tone. <i>Blood</i> , 2004, 103, 897-902.	1.4	106
14	RENAL PARENCHYMAL OXYGENATION AND HYPOXIA ADAPTATION IN ACUTE KIDNEY INJURY. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006, 33, 980-988.	1.9	105
15	Loop diuretics reduce hypoxic damage to proximal tubules of the isolated perfused rat kidney. <i>Kidney International</i> , 1994, 45, 981-985.	5.2	88
16	Protective Role of Furosemide and Saline in Radiocontrast-Induced Acute Renal Failure in the Rat. <i>American Journal of Kidney Diseases</i> , 1989, 14, 377-385.	1.9	86
17	Why Is Diabetes Mellitus a Risk Factor for Contrast-Induced Nephropathy?. <i>BioMed Research International</i> , 2013, 2013, 1-8.	1.9	86
18	ApoSense: a novel technology for functional molecular imaging of cell death in models of acute renal tubular necrosis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006, 33, 281-291.	6.4	84

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19	Immunohistochemical Detection of Hypoxia-Inducible Factor-1 α in Human Renal Allograft Biopsies. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 343-351.	6.1	82
20	Activation of hypoxia-inducible factors ameliorates hypoxic distal tubular injury in the isolated perfused rat kidney. <i>Nephrology Dialysis Transplantation</i> , 2008, 23, 3472-3478.	0.7	78
21	N-acetylcysteine ameliorates renal microcirculation: Studies in rats. <i>Kidney International</i> , 2003, 63, 634-641.	5.2	76
22	Can SGLT2 Inhibitors Cause Acute Renal Failure? Plausible Role for Altered Glomerular Hemodynamics and Medullary Hypoxia. <i>Drug Safety</i> , 2018, 41, 239-252.	3.2	71
23	Glycocalyx Degradation in Ischemia-Reperfusion Injury. <i>American Journal of Pathology</i> , 2020, 190, 752-767.	3.8	70
24	Acute-on-Chronic Renal Failure in the Rat: Functional Compensation and Hypoxia Tolerance. <i>American Journal of Nephrology</i> , 2006, 26, 22-33.	3.1	65
25	Renal microcirculation and tissue damage during acute ureteral obstruction in the rat: Effect of saline infusion, indomethacin and radiocontrast. <i>Kidney International</i> , 1997, 51, 653-663.	5.2	62
26	Effect of Glycine and Hypertrophy on Renal Outer Medullary Hypoxic Injury in Ischemia Reflow and Contrast Nephropathy. <i>American Journal of Kidney Diseases</i> , 1992, 19, 578-586.	1.9	54
27	Airborne Field Hospital in Disaster Area: Lessons from Armenia (1988) and Rwanda (1994). <i>Prehospital and Disaster Medicine</i> , 1998, 13, 14-21.	1.3	54
28	Acute Kidney Injury: Lessons from Experimental Models. <i>Contributions To Nephrology</i> , 2011, 169, 286-296.	1.1	54
29	Cellular adaptive changes in AKI: mitigating renal hypoxic injury. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 1721-1728.	0.7	54
30	ACE2, COVID-19 Infection, Inflammation, and Coagulopathy: Missing Pieces in the Puzzle. <i>Frontiers in Physiology</i> , 2020, 11, 574753.	2.8	54
31	Heparanase: A Potential New Factor Involved in the Renal Epithelial Mesenchymal Transition (EMT) Induced by Ischemia/Reperfusion (I/R) Injury. <i>PLoS ONE</i> , 2016, 11, e0160074.	2.5	47
32	Endotoxin-Induced Renal Failure. <i>Nephron Experimental Nephrology</i> , 2000, 8, 266-274.	2.2	46
33	Letter to the Editor: Angiotensin-converting enzyme 2: an ally or a Trojan horse? Implications to SARS-CoV-2-related cardiovascular complications. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H1080-H1083.	3.2	43
34	Evidence for sustained renal hypoxia and transient hypoxia adaptation in experimental rhabdomyolysis-induced acute kidney injury. <i>Nephrology Dialysis Transplantation</i> , 2007, 23, 1135-1143.	0.7	41
35	Phosphodiesterase-5 inhibition attenuates early renal ischemia-reperfusion-induced acute kidney injury: assessment by quantitative measurement of urinary NGAL and KIM-1. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F1099-F1104.	2.7	40
36	The Renal Medulla: Life at the Edge of Anoxia. <i>Blood Purification</i> , 1997, 15, 232-242.	1.8	37

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37	Hypoxia-inducible factors and the prevention of acute organ injury. <i>Critical Care</i> , 2011, 15, 209.	5.8	36
38	Effect of Radiocontrast Agents on Intrarenal Nitric Oxide (NO) and NO Synthase Activity. <i>Nephron Experimental Nephrology</i> , 1998, 6, 557-562.	2.2	34
39	Current Understanding of HIF in Renal Disease. <i>Kidney and Blood Pressure Research</i> , 2005, 28, 325-340.	2.0	33
40	Endotoxin-Induced Renal Failure. <i>Nephron Experimental Nephrology</i> , 2000, 8, 275-282.	2.2	32
41	Involvement of heparanase in the pathogenesis of acute kidney injury: nephroprotective effect of PG545. <i>Oncotarget</i> , 2017, 8, 34191-34204.	1.8	32
42	A Role for Erythropoietin in the Attenuation of Radiocontrast-Induced Acute Renal Failure in Rats. <i>Renal Failure</i> , 2006, 28, 345-350.	2.1	31
43	Animal models of renal dysfunction: acute kidney injury. <i>Expert Opinion on Drug Discovery</i> , 2009, 4, 629-641.	5.0	31
44	Potential Hypoxic Renal Injury in Patients With Diabetes on SGLT2 Inhibitors: Caution Regarding Concomitant Use of NSAIDs and Iodinated Contrast Media. <i>Diabetes Care</i> , 2017, 40, e40-e41.	8.6	31
45	Tissue Oxygenation Modifies Nitric Oxide Bioavailability. <i>Microcirculation</i> , 1999, 6, 199-203.	1.8	30
46	Compensated heart failure predisposes to outer medullary tubular injury: Studies in rats. <i>Kidney International</i> , 2001, 60, 607-613.	5.2	30
47	Acute Kidney Injury in the Diabetic Rat: Studies in the Isolated Perfused and Intact Kidney. <i>American Journal of Nephrology</i> , 2008, 28, 831-839.	3.1	26
48	Combined antioxidant effects of Neem extract, bacteria, red blood cells and Lysozyme: possible relation to periodontal disease. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 399.	3.7	26
49	Kinins and chymase: the forgotten components of the renin-angiotensin system and their implications in COVID-19 disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L422-L429.	2.9	25
50	Endothelin-converting enzyme is a plausible target gene for hypoxia-inducible factor. <i>Kidney International</i> , 2015, 87, 761-770.	5.2	20
51	Acute Kidney Injury After Radiocontrast-Enhanced Computerized Tomography in Hospitalized Patients With Advanced Renal Failure. <i>Investigative Radiology</i> , 2020, 55, 677-687.	6.2	20
52	Proximal Tubular Injury Attenuates Outer Medullary Hypoxic Damage: Studies in Perfused Rat Kidneys. <i>Nephron Experimental Nephrology</i> , 2002, 10, 259-266.	2.2	19
53	<i>In vivo</i> evidence suggesting reciprocal renal hypoxia-inducible factor-1 upregulation and signal transducer and activator of transcription 3 activation in response to hypoxic and non-hypoxic stimuli. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013, 40, 262-272.	1.9	19
54	Biomarker evidence for distal tubular damage but cortical sparing in hospitalized diabetic patients with acute kidney injury (AKI) while on SGLT2 inhibitors. <i>Renal Failure</i> , 2020, 42, 836-844.	2.1	19

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55	Dye-induced nephropathy. <i>Seminars in Nephrology</i> , 2003, 23, 477-485.	1.6	18
56	Pulmonary, cardiac and renal distribution of ACE2, furin, TMPRSS2 and ADAM17 in rats with heart failure: Potential implication for COVID-19 disease. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 3840-3855.	3.6	18
57	Angiotensin-(1-7)â€”A Potential Remedy for AKI: Insights Derived from the COVID-19 Pandemic. <i>Journal of Clinical Medicine</i> , 2021, 10, 1200.	2.4	18
58	Autoimmune cholangiopathy associated with systemic lupus erythematosus. <i>Liver</i> , 2002, 22, 102-106.	0.1	17
59	Hemodynamic response magnetic resonance imaging: application for renal hemodynamic characterization. <i>Nephrology Dialysis Transplantation</i> , 2013, 28, 1150-1156.	0.7	17
60	Efficacy of adalimumab therapy for life-threatening pulmonary vasculitis in Behçetâ€™s disease. <i>Rheumatology International</i> , 2014, 34, 857-860.	3.0	17
61	Assessment with Unenhanced MRI Techniques of Renal Morphology and Hemodynamic Changes during Acute Kidney Injury and Chronic Kidney Disease in Mice. <i>American Journal of Nephrology</i> , 2014, 39, 268-278.	3.1	17
62	The fibrinolytic system attenuates vascular tone: effects of tissue plasminogen activator (tPA) and aminocaproic acid on renal microcirculation. <i>British Journal of Pharmacology</i> , 2004, 141, 971-978.	5.4	16
63	Glycine reduces early renal parenchymal uptake of cisplatin. <i>Kidney International</i> , 1993, 43, 1226-1228.	5.2	15
64	Cyclosporine Nephropathy: Morphometric Analysis of the Medullary Thick Ascending Limb. <i>American Journal of Kidney Diseases</i> , 1992, 20, 162-167.	1.9	14
65	Negligible Risk of Acute Renal Failure Among Hospitalized Patients After Contrast-Enhanced Imaging With Iodinated Versus Gadolinium-Based Agents. <i>Investigative Radiology</i> , 2019, 54, 312-318.	6.2	13
66	Fasting-Induced Natriuresis and SGLT: A New Hypothesis for an Old Enigma. <i>Frontiers in Endocrinology</i> , 2020, 11, 217.	3.5	13
67	Increased Hematocrit During Sodium-Glucose Cotransporter-2 Inhibitor Therapy. <i>Journal of Clinical Medicine Research</i> , 2017, 9, 176-177.	1.2	13
68	Bile cast nephropathy. <i>Kidney International</i> , 2014, 85, 479.	5.2	12
69	Role of Hypoxia in Renal Failure Caused by Nephrotoxins and Hypertonic Solutions. <i>Seminars in Nephrology</i> , 2019, 39, 530-542.	1.6	12
70	Effect of Nicotine on the Renal Microcirculation in Anesthetized Rats: A Potential for Medullary Hypoxic Injury?. <i>American Journal of Nephrology</i> , 2005, 25, 226-232.	3.1	11
71	Acute Renal Failure Following Near-Drowning. <i>Kidney International Reports</i> , 2018, 3, 833-840.	0.8	11
72	Effect of Poly(ADP-Ribose) Polymerase Inhibition on Outer Medullary Hypoxic Damage. <i>Nephron Physiology</i> , 2003, 95, p1-p9.	1.2	10

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73	Deployment of field hospitals to disaster regions: Insights from ten medical relief operations spanning three decades. <i>American Journal of Disaster Medicine</i> , 2017, 12, 243-256.	0.3	10
74	Renal Effects of Nabumetone, a COX-2 Antagonist: Impairment of Function in Isolated Perfused Rat Kidneys Contrasts with Preserved Renal Function in vivo. <i>Nephron Experimental Nephrology</i> , 2001, 9, 387-396.	2.2	9
75	Near-drowning: new perspectives for human hypoxic acute kidney injury. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 206-212.	0.7	9
76	The Duplicitous Nature of ACE2 in COVID-19 Disease. <i>EBioMedicine</i> , 2021, 67, 103356.	6.1	9
77	Hyperglycemia on Admission Predicts Acute Kidney Failure and Renal Functional Recovery among Inpatients. <i>Journal of Clinical Medicine</i> , 2022, 11, 54.	2.4	9
78	Clinical Spectrum and Mechanism of Acute Kidney Injury in Patients with Diabetes Mellitus on SGLT-2 Inhibitors. <i>Israel Medical Association Journal</i> , 2018, 20, 513-516.	0.1	8
79	Transient urethral obstruction predisposes to ascending pyelonephritis and tubulo-interstitial disease: studies in rats. <i>Urological Research</i> , 2001, 29, 67-73.	1.5	7
80	Scattered striated persistent nephrogram in sepsis. <i>Nephrology Dialysis Transplantation</i> , 2011, 26, 2053-2055.	0.7	7
81	Recoverable, Record-High Lactic Acidosis in a Patient with Glycogen Storage Disease Type 1: A Mixed Type A and Type B Lactate Disorder. <i>Case Reports in Medicine</i> , 2016, 2016, 1-5.	0.7	7
82	Why Have Detection, Understanding and Management of Kidney Hypoxic Injury Lagged Behind those for the Heart?. <i>Journal of Clinical Medicine</i> , 2019, 8, 267.	2.4	7
83	Concerning cellular and molecular pathways of renal repair after acute kidney injury. <i>Kidney International</i> , 2018, 94, 218.	5.2	6
84	Renal Functional Recovery Confounding the Assessment of Contrast Nephropathy: Propensity Score Analysis. <i>American Journal of Nephrology</i> , 2021, 52, 76-83.	3.1	6
85	Renal functional recovery among inpatients: A plausible marker of reduced renal functional reserve. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2021, 48, 1724-1727.	1.9	6
86	Neutrophil gelatinase-associated lipocalin in a triphasic rat model of adenine-induced kidney injury. <i>Renal Failure</i> , 2016, 38, 1448-1454.	2.1	5
87	Changing serum creatinine in the detection of acute renal failure and recovery following radiocontrast studies among acutely ill inpatients: Reviewing insights regarding renal functional reserve gained by large-data analysis. <i>Practical Laboratory Medicine</i> , 2022, 30, e00276.	1.3	5
88	In vivo models of acute kidney injury. <i>Drug Discovery Today: Disease Models</i> , 2010, 7, 51-56.	1.2	4
89	Reply to Letter to the Editor: "Don't judge too RASHly: the multifaceted role of the renin-angiotensin system and its therapeutic potential in COVID-19". <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L1029-L1030.	2.9	4
90	Hypoxia, Oxidative Stress, and the Pathophysiology of Contrast-Media-Induced Nephropathy. , 2011, , 229-256.		4

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91	Erythropoietin: A potential remedy for renal tubular injury?. <i>Kidney International</i> , 2004, 65, 737-738.	5.2	3
92	Interacting hypoxia and endothelin in the diabetic kidney: therapeutic options. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F699-F701.	2.7	3
93	Critical Assessment of Animal Models of Acute Renal Failure. , 2009, , 237-250.		3
94	Fatal Mesenteric Ischemia Induced by Synthetic Cannabinoids: A Case Report and Literature Review. <i>Case Reports in Emergency Medicine</i> , 2017, 2017, 1-5.	0.3	2
95	Comment on Oosterwijk et al. High-Normal Protein Intake Is Not Associated With Faster Renal Function Deterioration in Patients With Type 2 Diabetes: A Prospective Analysis in the DIALECT Cohort. <i>Diabetes Care</i> 2022;45:35-41. <i>Diabetes Care</i> , 2022, 45, e67-e68.	8.6	2
96	Reply to Letter to the Editor: "COVID-19: is the ACE2 just a foe?" <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L1031-L1031.	2.9	1
97	Lay Responder Care for the Adult Victim of Out-of-Hospital Cardiac Arrest. <i>New England Journal of Medicine</i> , 2020, 382, e24.	27.0	1
98	Letter Regarding Normal Albuminuria in Patients With Autopsy-Proven Advanced Diabetic Nephropathy. <i>Kidney International Reports</i> , 2022, 7, 662.	0.8	1
99	Cardiac tamponade and coronary artery pseudoaneurysm after brachial arterial embolectomy, possible role for an aberrant origin of the right coronary artery. <i>Journal of Vascular Surgery Cases and Innovative Techniques</i> , 2018, 4, 27-30.	0.6	0
100	FP251ACUTE KIDNEY INJURY FOLLOWING NEAR DROWNING IN SEA WATER: AN ARCHETYPE OF RENAL OXYGENATION IMBALANCE. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, i114-i115.	0.7	0
101	Low-salt diet and renal safety: taken with a pinch of salt. <i>Journal of Physiology</i> , 2020, 598, 5299-5300.	2.9	0
102	Pleurisy Can Cause Chest Wall Tenderness: A Case Report. <i>European Journal of Case Reports in Internal Medicine</i> , 2019, 7, 001657.	0.4	0
103	Multiple Sterile Splenic and Lymph Node Abscesses in a Patient with Long-Standing Ulcerative Colitis. <i>Israel Medical Association Journal</i> , 2016, 18, 633-635.	0.1	0
104	Intravascular Small Cell Carcinoma Disguised as Pulmonary Embolism. <i>Israel Medical Association Journal</i> , 2021, 23, 52-54.	0.1	0