

Utpal Sen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

5,790
citations

28
h-index

76
g-index

97
ext. papers

6,557
ext. citations

3.4
avg, IF

4.89
L-index

#	Paper	IF	Citations
91	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
90	H2S protects against methionine-induced oxidative stress in brain endothelial cells. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 25-33	8.4	131
89	Homocysteine to hydrogen sulfide or hypertension. <i>Cell Biochemistry and Biophysics</i> , 2010 , 57, 49-58	3.2	124
88	Hydrogen sulfide ameliorates hyperhomocysteinemia-associated chronic renal failure. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F410-9	4.3	122
87	Endothelial dysfunction: the link between homocysteine and hydrogen sulfide. <i>Current Medicinal Chemistry</i> , 2014 , 21, 3662-72	4.3	117
86	Increased endogenous H2S generation by CBS, CSE, and 3MST gene therapy improves ex vivo renovascular relaxation in hyperhomocysteinemia. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C41-51	5.4	82
85	Regulation of homocysteine-induced MMP-9 by ERK1/2 pathway. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C883-91	5.4	79
84	Hydrogen sulfide regulates homocysteine-mediated glomerulosclerosis. <i>American Journal of Nephrology</i> , 2010 , 31, 442-55	4.6	67
83	Toll-like Receptor 4 Deficiency Reduces Oxidative Stress and Macrophage Mediated Inflammation in Hypertensive Kidney. <i>Scientific Reports</i> , 2017 , 7, 6349	4.9	59
82	Hydrogen sulfide deficiency and diabetic renal remodeling: role of matrix metalloproteinase-9. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E1365-78	6	58
81	Hydrogen sulfide mitigates transition from compensatory hypertrophy to heart failure. <i>Journal of Applied Physiology</i> , 2011 , 110, 1093-100	3.7	53
80	Activation of GABA-A receptor ameliorates homocysteine-induced MMP-9 activation by ERK pathway. <i>Journal of Cellular Physiology</i> , 2009 , 220, 257-66	7	52
79	Cardiac specific deletion of N-methyl-d-aspartate receptor 1 ameliorates mtMMP-9 mediated autophagy/mitophagy in hyperhomocysteinemia. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 78-87	2.6	51
78	Cardioprotective role of sodium thiosulfate on chronic heart failure by modulating endogenous H2S generation. <i>Pharmacology</i> , 2008 , 82, 201-13	2.3	51
77	Functional consequences of the collagen/elastin switch in vascular remodeling in hyperhomocysteinemic wild-type, eNOS ^{-/-} , and iNOS ^{-/-} mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L301-11	5.8	47
76	Regulation and involvement of matrix metalloproteinases in vascular diseases. <i>Frontiers in Bioscience - Landmark</i> , 2016 , 21, 89-118	2.8	47
75	Fibrinogen-induced endothelin-1 production from endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 296, C840-7	5.4	41

74	Homocysteine and hydrogen sulfide in epigenetic, metabolic and microbiota related renovascular hypertension. <i>Pharmacological Research</i> , 2016 , 113, 300-312	10.2	40
73	Hydrogen sulfide mitigates hyperglycemic remodeling via liver kinase B1-adenosine monophosphate-activated protein kinase signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014 , 1843, 2816-26	4.9	38
72	Cystathionine β -synthase and cystathionine γ -lyase double gene transfer ameliorate homocysteine-mediated mesangial inflammation through hydrogen sulfide generation. <i>American Journal of Physiology - Cell Physiology</i> , 2011 , 300, C155-63	5.4	38
71	Hydrogen sulfide alleviates hypertensive kidney dysfunction through an epigenetic mechanism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H874-H885	5.2	36
70	GY4137, a Hydrogen Sulfide Donor Modulates miR194-Dependent Collagen Realignment in Diabetic Kidney. <i>Scientific Reports</i> , 2017 , 7, 10924	4.9	36
69	Homocysteine and Hypertension in Diabetes: Does PPARgamma Have a Regulatory Role?. <i>PPAR Research</i> , 2010 , 2010, 806538	4.3	35
68	Cystathionine-beta-synthase gene transfer and 3-deazaadenosine ameliorate inflammatory response in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1779-87	5.4	35
67	MMP-9- and NMDA receptor-mediated mechanism of diabetic renovascular remodeling and kidney dysfunction: hydrogen sulfide is a key modulator. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 46, 172-85	5	33
66	DNA hypermethylation in hyperhomocysteinemia contributes to abnormal extracellular matrix metabolism in the kidney. <i>FASEB Journal</i> , 2015 , 29, 4713-25	0.9	31
65	Angiotensin-II induced hypertension and renovascular remodelling in tissue inhibitor of metalloproteinase 2 knockout mice. <i>Journal of Hypertension</i> , 2013 , 31, 2270-81; discussion 2281	1.9	30
64	Homocysteine-induced myofibroblast differentiation in mouse aortic endothelial cells. <i>Journal of Cellular Physiology</i> , 2006 , 209, 767-74	7	28
63	Folic acid mitigates angiotensin-II-induced blood pressure and renal remodeling. <i>PLoS ONE</i> , 2013 , 8, e83813	4.3	27
62	Blood flow interplays with elastin: collagen and MMP: TIMP ratios to maintain healthy vascular structure and function. <i>Vascular Health and Risk Management</i> , 2010 , 6, 215-28	4.4	27
61	Ciglitazone, a PPARgamma agonist, ameliorates diabetic nephropathy in part through homocysteine clearance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E1205-12	6.3	27
60	Atherogenesis: hyperhomocysteinemia interactions with LDL, macrophage function, paraoxonase 1, and exercise. <i>Annals of the New York Academy of Sciences</i> , 2016 , 1363, 138-54	6.5	27
59	Matrix imbalance by inducing expression of metalloproteinase and oxidative stress in cochlea of hyperhomocysteinemic mice. <i>Molecular and Cellular Biochemistry</i> , 2009 , 332, 215-24	4.2	26
58	Nitrotyrosinylation, remodeling and endothelial-myocyte uncoupling in iNOS, cystathionine beta synthase (CBS) knockouts and iNOS/CBS double knockout mice. <i>Journal of Cellular Biochemistry</i> , 2009 , 106, 119-26	4.7	25
57	Matrix Metalloproteinase Inhibition Mitigates Renovascular Remodeling in Salt-Sensitive Hypertension. <i>Physiological Reports</i> , 2013 , 1, e00063	2.6	24

56	Synergism between AT1 receptor and hyperhomocysteinemia during vascular remodeling. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007 , 45, 1771-6	5.9	21
55	More than just an enzyme: Dipeptidyl peptidase-4 (DPP-4) and its association with diabetic kidney remodelling. <i>Pharmacological Research</i> , 2019 , 147, 104391	10.2	20
54	Hydrogen Sulfide Protects Hyperhomocysteinemia-Induced Renal Damage by Modulation of Caveolin and eNOS Interaction. <i>Scientific Reports</i> , 2019 , 9, 2223	4.9	19
53	Hydrogen sulfide inhibits Ca-induced mitochondrial permeability transition pore opening in type-1 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 317, E269-E283	6	16
52	Cystathionine beta synthase gene dose dependent vascular remodeling in murine model of hyperhomocysteinemia. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2011 , 3, 210-22	3.4	16
51	PPAR gamma agonist normalizes glomerular filtration rate, tissue levels of homocysteine, and attenuates endothelial-myocyte uncoupling in alloxan induced diabetic mice. <i>International Journal of Biological Sciences</i> , 2008 , 4, 236-44	11.2	16
50	Homocysteine in renovascular complications: hydrogen sulfide is a modulator and plausible anaerobic ATP generator. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 41, 27-37	5	13
49	Homocysteine-induced biochemical stress predisposes to cytoskeletal remodeling in stretched endothelial cells. <i>Molecular and Cellular Biochemistry</i> , 2007 , 302, 133-43	4.2	11
48	Hydrogen sulphide mitigates homocysteine-induced apoptosis and matrix remodelling in mesangial cells through Akt/FOXO1 signalling cascade. <i>Cellular Signalling</i> , 2019 , 61, 66-77	4.9	10
47	Altered microRNA regulation of short chain fatty acid receptors in the hypertensive kidney is normalized with hydrogen sulfide supplementation. <i>Pharmacological Research</i> , 2018 , 134, 157-165	10.2	10
46	Hypertension exaggerates renovascular resistance via miR-122-associated stress response in aging. <i>Journal of Hypertension</i> , 2018 , 36, 2226-2236	1.9	10
45	Exogenous hydrogen sulfide and miR-21 antagonism attenuates macrophage-mediated inflammation in ischemia reperfusion injury of the aged kidney. <i>GeroScience</i> , 2021 , 43, 1349-1367	8.9	8
44	Mini-review: diabetic renal complications, a potential stinky remedy. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, F119-22	4.3	7
43	Chronic hyperhomocysteinemia causes vascular remodelling by instigating vein phenotype in artery. <i>Archives of Physiology and Biochemistry</i> , 2011 , 117, 270-82	2.2	7
42	Remodeling in vein expresses arterial phenotype in hyperhomocysteinemia. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , 2011 , 3, 266-79	3.4	4
41	Sodium-hydrogen exchanger regulatory factor-1 (NHERF1) confers salt sensitivity in both male and female models of hypertension in aging. <i>Life Sciences</i> , 2020 , 243, 117226	6.8	4
40	Methylation-dependent antioxidant-redox imbalance regulates hypertensive kidney injury in aging. <i>Redox Biology</i> , 2020 , 37, 101754	11.3	4
39	Cardiac synchronous and dys-synchronous remodeling in diabetes mellitus. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 971-8	8.4	2

38	Homocysteine attenuates blood brain barrier function by inducing oxidative stress and the junctional proteins. <i>FASEB Journal</i> , 2008 , 22, 734.7	0.9	2
37	Activation of GABA α A receptor Protects Mitochondria and Reduces Cerebral ischemia.. <i>FASEB Journal</i> , 2009 , 23, 614.8	0.9	2
36	Toll-like receptor 4 mutation protects the kidney from Ang-II-induced hypertensive injury.. <i>Pharmacological Research</i> , 2021 , 175, 106030	10.2	1
35	Homocysteine alters Redox Regulation through Thioredoxin-Interacting Protein: A Novel role of Forkhead Transcription Factor (FOXO-3a/FKHR-L1). <i>FASEB Journal</i> , 2006 , 20, A1456	0.9	1
34	Early onset of atherosclerosis in ApoE-knockout mice is induced by in utero arsenic exposure. <i>FASEB Journal</i> , 2007 , 21, A810	0.9	1
33	Differential Expression of the GABAA receptor subunits in the Kidney and Cardiovascular system. <i>FASEB Journal</i> , 2007 , 21, A497	0.9	1
32	Collagen receptor- and metalloproteinase-dependent hypertensive stress response in mesangial and glomerular endothelial cells. <i>Molecular and Cellular Biochemistry</i> , 2020 , 466, 1-15	4.2	1
31	Homocysteine induces endothelial-myofibroblast differentiation through activation of focal adhesion kinase. <i>FASEB Journal</i> , 2006 , 20, A1465	0.9	
30	Activation of GABAA receptor ameliorate homocysteine-induced MMP-9 by ERK pathway. <i>FASEB Journal</i> , 2007 , 21, A497	0.9	
29	Mechanism of homocysteine-induced dementia/spasm. <i>FASEB Journal</i> , 2008 , 22, 734.9	0.9	
28	Ex vivo real-time MMP activation in kidney in hyperhomocysteinemia. <i>FASEB Journal</i> , 2008 , 22, 942.10	0.9	
27	Effect of hydrogen sulfide on methionine-induced oxidative stress in brain endothelial cells. <i>FASEB Journal</i> , 2008 , 22, 734.8	0.9	
26	Hyperhomocysteinemia causes cardiac rhythm disturbances due to a shift in atrial and ventricular gap junction protein distribution. <i>FASEB Journal</i> , 2008 , 22, 971.10	0.9	
25	Role of Copper and Homocysteine in Pressure Overload Heart Failure. <i>FASEB Journal</i> , 2008 , 22, 1210.16	0.9	
24	Linking Toll-like Receptor 4, Gut Microbiota, and Doxycycline in the Hypertensive Kidney. <i>FASEB Journal</i> , 2018 , 32, 716.14	0.9	
23	Exercise Induced Irisin Alleviates Type 1 Diabetic Nephropathy by Promoting Mitochondria Biogenesis and Function. <i>FASEB Journal</i> , 2019 , 33, 567.10	0.9	
22	Comparison of protein expression in kidney tubular apical and basolateral membranes in young and old rats. <i>FASEB Journal</i> , 2015 , 29, 969.9	0.9	
21	Deregulation of miR-21 Contributes to Differential Macrophage Activation in Acute Kidney Injury in Aged Mice. <i>FASEB Journal</i> , 2015 , 29, 807.9	0.9	

20	Hydrogen Sulfide Inhibits Ca ²⁺ -induced Mitochondrial Permeability Transition Pore Opening in Type-1 Diabetes. <i>FASEB Journal</i> , 2015 , 29, 959.11	0.9
19	Hydrogen sulfide mitigates homocysteine-induced glomerular injury. <i>FASEB Journal</i> , 2009 , 23, 604.9	0.9
18	Structural and Functional Heterogeneity in Vascular Remodeling. <i>FASEB Journal</i> , 2009 , 23, 593.20	0.9
17	Cerebroprotective role of Tetrahydro Curcumin in hyperhomocysteinemic ischemic mice by regulating NF- κ B. <i>FASEB Journal</i> , 2009 , 23, 614.7	0.9
16	Role of MicroRNAs in homocysteine induced oxidative stress. <i>FASEB Journal</i> , 2009 , 23, 1038.9	0.9
15	Blood Flow Regulates Vasculature by Maintaining Collagen/elastin and MMP/TIMP ratio. <i>FASEB Journal</i> , 2010 , 24, 790.3	0.9
14	Role of dicer in diabetic cardiomyopathy through dysregulation of MMP-9 and TIMP-4. <i>FASEB Journal</i> , 2010 , 24, 978.19	0.9
13	Inhibition of Matrix Metalloproteinase-9 (MMP-9) Reverses Changes in Vascular Wall Structure and Function of Thoracic Aorta of Dahl Salt-Sensitive (DSS) Rats. <i>FASEB Journal</i> , 2010 , 24, 599.4	0.9
12	Folic acid mitigated homocysteine-mediated decrease in bone blood flow and bone remodeling. <i>FASEB Journal</i> , 2010 , 24, 630.7	0.9
11	Tetrahydrocurcumin ameliorates mtMMP-9 mediated mitophagy and mitochondria remodeling in Stroke. <i>FASEB Journal</i> , 2010 , 24, 604.4	0.9
10	Folic Acid Mitigated Cardiac Dysfunction by Normalizing the Levels of Tissue Inhibitor of Metalloproteinase and homocysteine-metabolizing enzymes Post myocardial Infarction in Mice.. <i>FASEB Journal</i> , 2010 , 24, 600.5	0.9
9	Functional heterogeneity in vascular remodeling (MMP-9 ^{-/-} and PAR-1 ^{-/-}) in hyperhomocysteinemic (CBS ^{-/+}) and diabetic (Akita, Ins2 ^{+/+}) mice.. <i>FASEB Journal</i> , 2010 , 24, 599.6	0.9
8	Cystathionine β -Synthase and cystathionine β -lyase double gene transfer ameliorated homocysteine-mediated mesangial inflammation through hydrogen sulfide generation. <i>FASEB Journal</i> , 2010 , 24, 590.6	0.9
7	The siRNA targeting MMP-9 mitigates Homocysteine induced disruption of barrier integrity in Human intestinal microvascular cells. <i>FASEB Journal</i> , 2011 , 25, 1066.7	0.9
6	Renovascular remodeling in Angiotensin-II induced hypertension is strain-dependent. <i>FASEB Journal</i> , 2012 , 26, 1b809	0.9
5	Hydrogen sulfide mitigates diabetic nephropathy through NMDA receptor mediated renal remodeling. <i>FASEB Journal</i> , 2012 , 26, 687.5	0.9
4	Hydrogen sulfide mitigates renovascular matrix pathobiology in hyperhomocysteinemia. <i>FASEB Journal</i> , 2012 , 26, 866.4	0.9
3	Matrix Metalloproteinase Inhibition Protects Kidney from Adverse Remodeling Induced by Hypertension. <i>FASEB Journal</i> , 2013 , 27, 906.6	0.9

- 2 H2S Therapy Improves MMP-9 and NMDA Receptor Mediated Diabetic Renovascular Remodeling. *FASEB Journal*, **2013**, 27, 702.9 0.9
- 1 C3H Mice are Resistant to Hypertensive Renovascular Remodeling Due to Decreased Mitochondrial Oxidative Stress. *FASEB Journal*, **2013**, 27, 704.13 0.9