

# Sruti Shiva

## List of Publications by Year in descending order

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117  
papers

7,966  
citations

54494

42  
h-index

38101

89  
g-index

122  
all docs

122  
docs citations

122  
times ranked

11713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Allele-specific control of rodent and human lncRNA KMT2E-AS1 promotes hypoxic endothelial pathology in pulmonary hypertension. <i>Science Translational Medicine</i> , 2024, 16, .	13.1	6
2	Myoglobin modulates the Hippo pathway to promote cardiomyocyte differentiation. <i>Science</i> , 2024, 27, 109146.	3.8	0
3	Platelet Bioenergetics and Associations With Delirium and Coma in Patients With Sepsis. <i>CHEST Critical Care</i> , 2024, 2, 100076.	2.1	0
4	Myocardial brain-derived neurotrophic factor regulates cardiac bioenergetics through the transcription factor Yin Yang 1. <i>Cardiovascular Research</i> , 2023, 119, 571-586.	5.6	18
5	A blood-based marker of mitochondrial DNA damage in Parkinson's disease. <i>Science Translational Medicine</i> , 2023, 15, .	13.1	34
6	Endothelial superoxide dismutase 2 is decreased in sickle cell disease and regulates fibronectin processing. <i>Function</i> , 2022, 3, .	1.5	6
7	Layer-specific <i>Nos3</i> expression and genotypic distribution in bicuspid aortic valve aortopathy. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 62, .	1.4	3
8	SOD2 V16A amplifies vascular dysfunction in sickle cell patients by curtailing mitochondria complex IV activity. <i>Blood</i> , 2022, 139, 1760-1765.	1.0	11
9	Uncompensated mitochondrial oxidative stress underlies heart failure in an iPSC-derived model of congenital heart disease. <i>Cell Stem Cell</i> , 2022, 29, 840-855.e7.	17.2	37
10	Reversal of Right Ventricular Hypertrophy and Dysfunction by Prostacyclin in a Rat Model of Severe Pulmonary Arterial Hypertension. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5426.	4.5	8
11	Ageing-Associated Changes in Oxidative Stress Negatively Impacts the Urinary Bladder Urothelium. <i>International Neurourology Journal</i> , 2022, 26, 111-118.	1.6	14
12	Unbreak My Heart: Restore H <sub>2</sub> S and Branched Chain Amino Acid Oxidation in the Mitochondria. <i>Circulation Research</i> , 2022, 131, 236-238.	12.8	0
13	Impact of triptolide during ex vivo lung perfusion on grafts after transplantation in a rat model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021, 161, e65-e74.	2.9	10
14	Experimental design of the Effects of Dehydroepiandrosterone in Pulmonary Hypertension (EDIPHY) trial. <i>Pulmonary Circulation</i> , 2021, 11, 1-9.	2.2	9
15	Blunted hyperemic response to mental stress in young, non-Hispanic black men is not impacted by acute dietary nitrate supplementation. <i>Journal of Applied Physiology</i> , 2021, 130, 1510-1521.	3.0	2
16	Mitochondrial reactive oxygen species scavenging attenuates thrombus formation in a murine model of sickle cell disease. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 2256-2262.	4.1	14
17	Metabolic Syndrome Mediates ROS-miR-193b-NFYA-Dependent Downregulation of Soluble Guanylate Cyclase and Contributes to Exercise-Induced Pulmonary Hypertension in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2021, 144, 615-637.	19.4	56
18	Cooperation between CYB5R3 and NOX4 via coenzyme Q mitigates endothelial inflammation. <i>Redox Biology</i> , 2021, 47, 102166.	10.6	20

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19	Heme-Induced Platelet Mitochondrial Oxidant Production Regulates Platelet Granule Release. <i>Blood</i> , 2021, 138, 4204-4204.	1.0	0
20	Heme stimulates platelet mitochondrial oxidant production to induce targeted granule secretion. <i>Redox Biology</i> , 2021, 48, 102205.	10.6	9
21	Blood-based bioenergetics: An emerging translational and clinical tool. <i>Molecular Aspects of Medicine</i> , 2020, 71, 100835.	9.3	28
22	Ultrasound-Targeted Microbubble Cavitation with Sodium Nitrite Synergistically Enhances Nitric Oxide Production and Microvascular Perfusion. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 667-678.	1.8	13
23	Myoglobin promotes nitrite-dependent mitochondrial S-nitrosation to mediate cytoprotection after hypoxia/reoxygenation. <i>Nitric Oxide - Biology and Chemistry</i> , 2020, 104-105, 36-43.	3.1	5
24	CaMKIV regulates mitochondrial dynamics during sepsis. <i>Cell Calcium</i> , 2020, 92, 102286.	2.7	9
25	Toll interacting protein protects bronchial epithelial cells from bleomycin-induced apoptosis. <i>FASEB Journal</i> , 2020, 34, 9884-9898.	0.7	28
26	Mitochondrial electron transport chain: Oxidative phosphorylation, oxidant production, and methods of measurement. <i>Redox Biology</i> , 2020, 37, 101674.	10.6	727
27	Impact of arginine therapy on mitochondrial function in children with sickle cell disease during vaso-occlusive pain. <i>Blood</i> , 2020, 136, 1402-1406.	1.0	31
28	Tead1 is essential for mitochondrial function in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H89-H99.	3.9	21
29	A neuroglobin-based high-affinity ligand trap reverses carbon monoxide-induced mitochondrial poisoning. <i>Journal of Biological Chemistry</i> , 2020, 295, 6357-6371.	2.3	27
30	Nitrite attenuates mitochondrial impairment and vascular permeability induced by ischemia-reperfusion injury in the lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L580-L591.	3.3	6
31	Activation of AMP-activated protein kinase during sepsis/inflammation improves survival by preserving cellular metabolic fitness. <i>FASEB Journal</i> , 2020, 34, 7036-7057.	0.7	50
32	Ribosome-associated vesicles: A dynamic subcompartment of the endoplasmic reticulum in secretory cells. <i>Science Advances</i> , 2020, 6, .	11.3	38
33	HMGB1-Mediated Platelet Activation Is Independent of Platelet Mitochondrial Reactive Oxygen Species Generation. <i>Blood</i> , 2020, 136, 6-6.	1.0	0
34	Xanthine Oxidase Has a Protective Role during Heme Crisis By Binding and Degrading Heme. <i>Blood</i> , 2020, 136, 12-12.	1.0	2
35	Heme Induced Platelet Mitochondrial Oxidant Production Regulates Thrombospondin-1 Release from Platelets. <i>Blood</i> , 2020, 136, 30-30.	1.0	1
36	Alterations in platelet bioenergetics in Group 2 PH-HFpEF patients. <i>PLoS ONE</i> , 2019, 14, e0220490.	2.5	19

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37	Bioenergetics and translational metabolism: implications for genetics, physiology and precision medicine. <i>Biological Chemistry</i> , 2019, 401, 3-29.	2.2	42
38	Dysregulated NO/PDE5 signaling in the sickle cell mouse lower urinary tract: Reversal by oral nitrate therapy. <i>Life Sciences</i> , 2019, 238, 116922.	4.5	7
39	Neutrophil Extracellular Traps Drive Mitochondrial Homeostasis in Tumors to Augment Growth. <i>Cancer Research</i> , 2019, 79, 5626-5639.	0.6	167
40	Chemoptogenetic damage to mitochondria causes rapid telomere dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18435-18444.	7.7	103
41	Unlocking the Secrets of Mitochondria in the Cardiovascular System. <i>Circulation</i> , 2019, 140, 1205-1216.	19.4	104
42	Petite Integration Factor 1 (PIF1) helicase deficiency increases weight gain in Western diet-fed female mice without increased inflammatory markers or decreased glucose clearance. <i>PLoS ONE</i> , 2019, 14, e0203101.	2.5	6
43	Loss of GCN5L1 in cardiac cells disrupts glucose metabolism and promotes cell death via reduced Akt/mTORC2 signaling. <i>Biochemical Journal</i> , 2019, 476, 1713-1724.	3.9	18
44	Oxidative stress-induced senescence markedly increases disc cell bioenergetics. <i>Mechanisms of Ageing and Development</i> , 2019, 180, 97-106.	4.6	27
45	Loss of GCN5L1 in cardiac cells limits mitochondrial respiratory capacity under hyperglycemic conditions. <i>Physiological Reports</i> , 2019, 7, e14054.	1.7	7
46	Mitochondria in precision medicine; linking bioenergetics and metabolomics in platelets. <i>Redox Biology</i> , 2019, 22, 101165.	10.6	35
47	Myoglobin induces mitochondrial fusion, thereby inhibiting breast cancer cell proliferation. <i>Journal of Biological Chemistry</i> , 2019, 294, 7269-7282.	2.3	28
48	Nox1/Ref-1-mediated activation of CREB promotes Gremlin1-driven endothelial cell proliferation and migration. <i>Redox Biology</i> , 2019, 22, 101138.	10.6	38
49	Electrophilic nitro-oleic acid reverses obesity-induced hepatic steatosis. <i>Redox Biology</i> , 2019, 22, 101132.	10.6	27
50	Cardiac-specific deletion of GCN5L1 restricts recovery from ischemia-reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 129, 69-78.	2.0	17
51	Endotoxin Engages Mitochondrial Quality Control via an iNOS-Reactive Oxygen Species Signaling Pathway in Hepatocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-9.	4.5	13
52	Stress-induced autonomic dysregulation of mitochondrial function in the rat urothelium. <i>Neurourology and Urodynamics</i> , 2019, 38, 572-581.	1.8	25
53	Bioenergetic Differences in the Airway Epithelium of Lean versus Obese Asthmatics Are Driven by Nitric Oxide and Reflected in Circulating Platelets. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 673-686.	6.4	64
54	Sources of Vascular Nitric Oxide and Reactive Oxygen Species and Their Regulation. <i>Physiological Reviews</i> , 2019, 99, 311-379.	26.6	380

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55	Hydrogen sulfide regulates cardiac mitochondrial biogenesis via the activation of AMPK. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 116, 29-40.	2.0	69
56	Differential mitochondrial dinitrosyliron complex formation by nitrite and nitric oxide. <i>Redox Biology</i> , 2018, 15, 277-283.	10.6	18
57	Mitochondrial Complex I Reversible S-Nitrosation Improves Bioenergetics and Is Protective in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 44-61.	6.4	22
58	Senescence of bone marrow-derived mesenchymal stem cells from patients with idiopathic pulmonary fibrosis. <i>Stem Cell Research and Therapy</i> , 2018, 9, .	6.8	76
59	Nocturnal Hypoxia Improves Glucose Disposal, Decreases Mitochondrial Efficiency, and Increases Reactive Oxygen Species in the Muscle and Liver of C57BL/6J Mice Independent of Weight Change. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, .	4.5	10
60	Moving mitochondria—Breathing new signaling into asthmatic airways. <i>Redox Biology</i> , 2018, 18, 244-245.	10.6	0
61	Nitrosyl Myoglobins and Their Nitrite Precursors: Crystal Structural and Quantum Mechanics and Molecular Mechanics Theoretical Investigations of Preferred Fe<i>2+Biochemistry, 2018, 57, 4788-4802.	2.9	15
62	Experimental intravascular hemolysis induces hemodynamic and pathological pulmonary hypertension: association with accelerated purine metabolism. <i>Pulmonary Circulation</i> , 2018, 8, 1-15.	2.2	13
63	Adropin regulates pyruvate dehydrogenase in cardiac cells via a novel GPCR-MAPK-PDK4 signaling pathway. <i>Redox Biology</i> , 2018, 18, 25-32.	10.6	63
64	HMGB1 As a Novel Platelet Agonist That Acts Synergistically with ADP to Activate Platelets in Sickle Cell Disease. <i>Blood</i> , 2018, 132, 1073-1073.	1.0	0
65	Parenteral L-Arginine Improves Mitochondrial Function in Children with Sickle Cell Disease Admitted for Vaso-Occlusive Pain Episodes. <i>Blood</i> , 2018, 132, 508-508.	1.0	1
66	Acetylation of mitochondrial proteins by GCN5L1 promotes enhanced fatty acid oxidation in the heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H265-H274.	3.9	61
67	Hypoxia mediates mitochondrial biogenesis in hepatocellular carcinoma to promote tumor growth through HMGB1 and TLR9 interaction. <i>Hepatology</i> , 2017, 66, 182-197.	11.6	98
68	Biochemical signaling by remote ischemic conditioning of the arm versus thigh: Is one raise of the cuff enough?. <i>Redox Biology</i> , 2017, 12, 491-498.	10.6	33
69	IPF lung fibroblasts have a senescent phenotype. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L1164-L1173.	3.3	238
70	Conjugated Linoleic Acid Modulates Clinical Responses to Oral Nitrite and Nitrate. <i>Hypertension</i> , 2017, 70, 634-644.	7.0	23
71	Platelets from pulmonary hypertension patients show increased mitochondrial reserve capacity. <i>JCI Insight</i> , 2017, 2, .	5.5	44
72	LPS impairs oxygen utilization in epithelia by triggering degradation of the mitochondrial enzyme Alcat1. <i>Journal of Cell Science</i> , 2016, 129, 51-64.	3.2	18

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73	Five-coordinate H64Q neuroglobin as a ligand-trap antidote for carbon monoxide poisoning. <i>Science Translational Medicine</i> , 2016, 8, .	13.1	54
74	Mitochondrial H <sub>2</sub> O <sub>2</sub> in Lung Antigen-Presenting Cells Blocks NF- $\kappa$ B Activation to Prevent Unwarranted Immune Activation. <i>Cell Reports</i> , 2016, 15, 1700-1714.	6.4	20
75	AltitudeOmics: Red Blood Cell Metabolic Adaptation to High Altitude Hypoxia. <i>Journal of Proteome Research</i> , 2016, 15, 3883-3895.	3.7	90
76	Regional Disruptions in Endothelial Nitric Oxide Pathway Associated With Bicuspid Aortic Valve. <i>Annals of Thoracic Surgery</i> , 2016, 102, 1274-1281.	2.5	29
77	Minnelide/Triptolide Impairs Mitochondrial Function by Regulating SIRT3 in P53-Dependent Manner in Non-Small Cell Lung Cancer. <i>PLoS ONE</i> , 2016, 11, e0160783.	2.5	28
78	Inorganic nitrite improves components of the metabolic syndrome independent of weight change in a murine model of obesity and insulin resistance. <i>Journal of Physiology</i> , 2015, 593, 3135-3145.	3.2	20
79	Platelets from Asthmatic Individuals Show Less Reliance on Glycolysis. <i>PLoS ONE</i> , 2015, 10, e0132007.	2.5	45
80	Inhaled Carbon Monoxide Protects against the Development of Shock and Mitochondrial Injury following Hemorrhage and Resuscitation. <i>PLoS ONE</i> , 2015, 10, e0135032.	2.5	14
81	Atorvastatin and sildenafil decrease vascular TGF- $\beta$ 2 levels and MMP-2 activity and ameliorate arterial remodeling in a model of renovascular hypertension. <i>Redox Biology</i> , 2015, 6, 386-395.	10.6	32
82	Nitrite Confers Preconditioning and Cytoprotection After Ischemia/Reperfusion Injury Through the Modulation of Mitochondrial Function. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 307-327.	6.4	20
83	Effects of inhalation of low-dose nitrite or carbon monoxide on post-reperfusion mitochondrial function and tissue injury in hemorrhagic shock swine. <i>Critical Care</i> , 2015, 19, .	6.9	12
84	The Proapoptotic F-box Protein Fbxl7 Regulates Mitochondrial Function by Mediating the Ubiquitylation and Proteasomal Degradation of Survivin. <i>Journal of Biological Chemistry</i> , 2015, 290, 11843-11852.	2.3	53
85	Nitrite and nitrate-dependent generation of anti-inflammatory fatty acid nitroalkenes. <i>Free Radical Biology and Medicine</i> , 2015, 89, 333-341.	3.0	82
86	Arsenic induces structural and compositional colonic microbiome change and promotes host nitrogen and amino acid metabolism. <i>Toxicology and Applied Pharmacology</i> , 2015, 289, 397-408.	3.2	73
87	Inhaled, nebulized sodium nitrite protects in murine and porcine experimental models of hemorrhagic shock and resuscitation by limiting mitochondrial injury. <i>Nitric Oxide - Biology and Chemistry</i> , 2015, 51, 7-18.	3.1	8
88	Mesenchymal stem cells use extracellular vesicles to outsource mitophagy and shuttle microRNAs. <i>Nature Communications</i> , 2015, 6, .	14.1	739
89	Mitochondria Homeostasis Plays a Key Role in the Age-related Susceptibility to Lung Epithelial Injury and Fibrosis. <i>FASEB Journal</i> , 2015, 29, .	0.7	2
90	Circulating Nitrite Contributes to Cardioprotection by Remote Ischemic Preconditioning. <i>Circulation Research</i> , 2014, 114, 1601-1610.	12.8	284

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91	T Cell Receptor-Dependent Activation of mTOR Signaling in T Cells Is Mediated by Carma1 and MALT1, But Not Bcl10. <i>Science Signaling</i> , 2014, 7, .	5.5	97
92	Nitrite augments glucose uptake in adipocytes through the protein kinase A-dependent stimulation of mitochondrial fusion. <i>Free Radical Biology and Medicine</i> , 2014, 70, 45-53.	3.0	22
93	Nitrite activates protein kinase A in normoxia to mediate mitochondrial fusion and tolerance to ischaemia/reperfusion. <i>Cardiovascular Research</i> , 2014, 101, 57-68.	5.6	80
94	Nitrite modulates bacterial antibiotic susceptibility and biofilm formation in association with airway epithelial cells. <i>Free Radical Biology and Medicine</i> , 2014, 77, 307-316.	3.0	51
95	$\beta$ -Catenin Links Hepatic Metabolic Zonation with Lipid Metabolism and Diet-Induced Obesity in Mice. <i>American Journal of Pathology</i> , 2014, 184, 3284-3298.	3.6	52
96	E3 Ligase Subunit Fbxo15 and PINK1 Kinase Regulate Cardiolipin Synthase 1 Stability and Mitochondrial Function in Pneumonia. <i>Cell Reports</i> , 2014, 7, 476-487.	6.4	45
97	Platelet bioenergetic screen in sickle cell patients reveals mitochondrial complex V inhibition, which contributes to platelet activation. <i>Blood</i> , 2014, 123, 2864-2872.	1.0	112
98	Mechanisms for cellular NO oxidation and nitrite formation in lung epithelial cells. <i>Free Radical Biology and Medicine</i> , 2013, 61, 428-437.	3.0	17
99	Nitrite: A physiological store of nitric oxide and modulator of mitochondrial function. <i>Redox Biology</i> , 2013, 1, 40-44.	10.6	164
100	Nitrite activates AMP kinase to stimulate mitochondrial biogenesis independent of soluble guanylate cyclase. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1440-1450.	3.0	53
101	Myoglobin and mitochondria: A relationship bound by oxygen and nitric oxide. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 26, 251-258.	3.1	65
102	Oxygen Regulates Tissue Nitrite Metabolism. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 951-961.	6.4	39
103	Nitrite as a mediator of ischemic preconditioning and cytoprotection. <i>Nitric Oxide - Biology and Chemistry</i> , 2011, 25, 70-80.	3.1	51
104	The detection of the nitrite reductase and NO-generating properties of haemoglobin by mitochondrial inhibition. <i>Cardiovascular Research</i> , 2011, 89, 566-573.	5.6	37
105	HUMAN NEUROGLOBIN FUNCTIONS AS A REDOX REGULATED NITRITE REDUCTASE. <i>FASEB Journal</i> , 2011, 25, .	0.7	2
106	Mitochondria as metabolizers and targets of nitrite. <i>Nitric Oxide - Biology and Chemistry</i> , 2010, 22, 64-74.	3.1	73
107	Nitrite Therapy After Cardiac Arrest Reduces Reactive Oxygen Species Generation, Improves Cardiac and Neurological Function, and Enhances Survival via Reversible Inhibition of Mitochondrial Complex I. <i>Circulation</i> , 2009, 120, 897-905.	19.4	148
108	Vasoconstriction: tightening the noose through MMPs. <i>Cardiovascular Research</i> , 2009, 84, 339-340.	5.6	1

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109	Nitrite mediates cytoprotection after ischemia/reperfusion by modulating mitochondrial function. <i>Basic Research in Cardiology</i> , 2009, 104, 113-119.	7.2	73
110	Nitrite reductase activity of myoglobin regulates respiration and cellular viability in myocardial ischemia-reperfusion injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10256-10261.	7.7	356
111	Nitrite Reductase Activity of Cytochrome c. <i>Journal of Biological Chemistry</i> , 2008, 283, 32590-32597.	2.3	170
112	Nitrite Anion Provides Potent Cytoprotective and Antiapoptotic Effects as Adjunctive Therapy to Reperfusion for Acute Myocardial Infarction. <i>Circulation</i> , 2008, 117, 2986-2994.	19.4	153
113	Methods for Measuring the Regulation of Respiration by Nitric Oxide. <i>Methods in Cell Biology</i> , 2007, , 395-416.	0.0	5
114	Nitrite augments tolerance to ischemia/reperfusion injury via the modulation of mitochondrial electron transfer. <i>Journal of Experimental Medicine</i> , 2007, 204, 2089-2102.	8.1	469
115	Deoxymyoglobin Is a Nitrite Reductase That Generates Nitric Oxide and Regulates Mitochondrial Respiration. <i>Circulation Research</i> , 2007, 100, 654-661.	12.8	519
116	Cross-Talk between the Red Blood Cell and the Endothelium: Nitric Oxide as a Paracrine and Endocrine Regulator of Vascular Tone. , 2007, , 562-575.		0
117	Ceruloplasmin is a NO oxidase and nitrite synthase that determines endocrine NO homeostasis. <i>Nature Chemical Biology</i> , 2006, 2, 486-493.	7.3	310