Sam Toan

List of Publications by Year
in descending order

35 papers	2,863 citations	185998 28 h-index	329751 37 g-index
37 all docs	37 docs citations	37 times ranked	1913 citing authors

#	Article	IF	Citations
1	Ripk3 promotes ER stress-induced necroptosis in cardiac IR injury: A mechanism involving calcium overload/XO/ROS/mPTP pathway. Redox Biology, 2018, 16, 157-168.	3.9	286
2	New insights into the role of mitochondria in cardiac microvascular ischemia/reperfusion injury. Angiogenesis, 2020, 23, 299-314.	3.7	210
3	Inhibitory effect of melatonin on necroptosis via repressing the Ripk3â€PGAM5â€CypDâ€mPTP pathway attenuates cardiac microvascular ischemiaâ€"reperfusion injury. Journal of Pineal Research, 2018, 65, e12503.	3.4	186
4	Role of mitochondrial quality surveillance in myocardial infarction: From bench to bedside. Ageing Research Reviews, 2021, 66, 101250.	5.0	147
5	Mitochondrial quality control in cardiac microvascular ischemia-reperfusion injury: New insights into the mechanisms and therapeutic potentials. Pharmacological Research, 2020, 156, 104771.	3.1	131
6	DNA-PKcs promotes alcohol-related liver disease by activating Drp1-related mitochondrial fission and repressing FUNDC1-required mitophagy. Signal Transduction and Targeted Therapy, 2019, 4, 56.	7.1	125
7	Mitophagy coordinates the mitochondrial unfolded protein response to attenuate inflammation-mediated myocardial injury. Redox Biology, 2021, 45, 102049.	3.9	122
8	DNA-PKcs promotes cardiac ischemia reperfusion injury through mitigating BI-1-governed mitochondrial homeostasis. Basic Research in Cardiology, 2020, 115, 11.	2.5	106
9	SERCA Overexpression Improves Mitochondrial Quality Control and Attenuates Cardiac Microvascular Ischemia-Reperfusion Injury. Molecular Therapy - Nucleic Acids, 2020, 22, 696-707.	2.3	105
10	Phosphoglycerate mutase 5 exacerbates cardiac ischemia-reperfusion injury through disrupting mitochondrial quality control. Redox Biology, 2021, 38, 101777.	3.9	98
11	Mitochondrial quality surveillance as a therapeutic target in myocardial infarction. Acta Physiologica, 2021, 231, e13590.	1.8	89
12	Pathological Roles of Mitochondrial Oxidative Stress and Mitochondrial Dynamics in Cardiac Microvascular Ischemia/Reperfusion Injury. Biomolecules, 2020, 10, 85.	1.8	76
13	BI1 alleviates cardiac microvascular ischemiaâ€reperfusion injury via modifying mitochondrial fission and inhibiting XO/ROS/Fâ€actin pathways. Journal of Cellular Physiology, 2019, 234, 5056-5069.	2.0	72
14	Empagliflozin attenuates cardiac microvascular ischemia/reperfusion through activating the AMPKÎ±1/ULK1/FUNDC1/mitophagy pathway. Redox Biology, 2022, 52, 102288.	3.9	68
15	Pum2-Mff axis fine-tunes mitochondrial quality control in acute ischemic kidney injury. Cell Biology and Toxicology, 2020, 36, 365-378.	2.4	67
16	Melatonin fine-tunes intracellular calcium signals and eliminates myocardial damage through the IP3R/MCU pathways in cardiorenal syndrome type 3. Biochemical Pharmacology, 2020, 174, 113832.	2.0	59
17	Thermogravimetric and kinetics investigation of pine wood pyrolysis catalyzed with alkali-treated CaO/ZSM-5. Energy Conversion and Management, 2017, 146, 182-194.	4.4	57
18	Role of mitochondrial quality control in the pathogenesis of nonalcoholic fatty liver disease. Aging, 2020, 12, 6467-6485.	1.4	57

#	Article	IF	Citations
19	DNA-PKcs interacts with and phosphorylates Fis1 to induce mitochondrial fragmentation in tubular cells during acute kidney injury. Science Signaling, 2022, 15, eabh1121.	1.6	55
20	Post-combustion CO2 capture via a variety of temperature ranges and material adsorption process: A review. Journal of Environmental Management, 2022, 313, 115026.	3.8	47
21	Molecular mechanisms of coronary microvascular endothelial dysfunction in diabetes mellitus: focus on mitochondrial quality surveillance. Angiogenesis, 2022, 25, 307-329.	3.7	44
22	Synergistic enhancement of chemical looping-based CO₂ splitting with biomass cascade utilization using cyclic stabilized Ca₂Fe₂O₅ aerogel. Journal of Materials Chemistry A, 2019, 7, 1216-1226.	5.2	43
23	Microchannel structure design for hydrogen supply from methanol steam reforming. Chemical Engineering Journal, 2022, 429, 132286.	6.6	43
24	Thermocatalytic formic acid dehydrogenation: recent advances and emerging trends. Journal of Materials Chemistry A, 2021, 9, 24241-24260.	5.2	39
25	SERCA overexpression reduces reperfusion-mediated cardiac microvascular damage through inhibition of the calcium/MCU/mPTP/necroptosis signaling pathways. Redox Biology, 2020, 36, 101659.	3.9	38
26	Chemical looping deoxygenated gasification: An implication for efficient biomass utilization with high-quality syngas modulation and CO2 reduction. Energy Conversion and Management, 2020, 215, 112913.	4.4	36
27	Biomass pyrolysis-gasification over Zr promoted CaO-HZSM-5 catalysts for hydrogen and bio-oil co-production with CO2 capture. International Journal of Hydrogen Energy, 2017, 42, 16031-16044.	3.8	33
28	Ammonia production from biomass via a chemical loopingâ€"based hybrid system. Journal of Cleaner Production, 2021, 289, 125749.	4.6	32
29	DNA-PKcs promotes sepsis-induced multiple organ failure by triggering mitochondrial dysfunction. Journal of Advanced Research, 2022, 41, 39-48.	4.4	25
30	TiO(OH)2 â€" highly effective catalysts for optimizing CO2 desorption kinetics reducing CO2 capture cost: A new pathway. Scientific Reports, 2017, 7, 2943.	1.6	21
31	Sorption-enhanced chemical looping oxidative steam reforming of methanol for on-board hydrogen supply. Green Energy and Environment, 2022, 7, 145-155.	4.7	18
32	Deoxygenation-enhanced chemical looping gasification: a new pathway to produce hydrogen from biomass. Green Chemistry, 2022, 24, 2613-2623.	4.6	17
33	Green, safe, fast, and inexpensive removal of CO2 from aqueous KHCO3 solutions using a nanostructured catalyst TiO(OH)2: A milestone toward truly low-cost CO2 capture that can ease implementation of the Paris Agreement. Nano Energy, 2018, 53, 508-512.	8.2	15
34	Thermodynamics of NaHCO3 decomposition during Na2CO3-based CO2 capture. Journal of Environmental Sciences, 2019, 78, 74-80.	3.2	15
35	Fabricating Ga doped and MgO embedded nanomaterials for sorption-enhanced steam reforming of methanol. Journal of Materials Chemistry A, 2022, 10, 7300-7313.	5.2	14