Mingzhan Xue

List of Publications by Year
in descending order

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25 papers	1,609 citations	471509 17 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	2111 citing authors

#	Article	IF	Citations
1	Transcriptional control of glyoxalase 1 by Nrf2 provides a stress-responsive defence against dicarbonyl glycation. Biochemical Journal, 2012, 443, 213-222.	3.7	251
2	Activation of NF-E2â€“Related Factor-2 Reverses Biochemical Dysfunction of Endothelial Cells Induced by Hyperglycemia Linked to Vascular Disease. Diabetes, 2008, 57, 2809-2817.	0.6	214
3	Improved Glycemic Control and Vascular Function in Overweight and Obese Subjects by Glyoxalase 1 Inducer Formulation. Diabetes, 2016, 65, 2282-2294.	0.6	170
4	Glyoxalase in ageing. Seminars in Cell and Developmental Biology, 2011, 22, 293-301.	5.0	154
5	Dicarbonyls and glyoxalase in disease mechanisms and clinical therapeutics. Glycoconjugate Journal, 2016, 33, 513-525.	2.7	130
6	Methylglyoxal-induced dicarbonyl stress in aging and disease: first steps towards glyoxalase 1-based treatments. Clinical Science, 2016, 130, 1677-1696.	4.3	124
7	Activity, regulation, copy number and function in the glyoxalase system. Biochemical Society Transactions, 2014, 42, 419-424.	3.4	83
8	Activation of the unfolded protein response in high glucose treated endothelial cells is mediated by methylglyoxal. Scientific Reports, 2019, 9, 7889.	3.3	69
9	Frequency Modulated Translocational Oscillations of Nrf2 Mediate the Antioxidant Response Element Cytoprotective Transcriptional Response. Antioxidants and Redox Signaling, 2015, 23, 613-629.	5.4	63
10	Multiple roles of glyoxalase 1-mediated suppression of methylglyoxal glycation in cancer biologyâ€”Involvement in tumour suppression, tumour growth, multidrug resistance and target for chemotherapy. Seminars in Cancer Biology, 2018, 49, 83-93.	9.6	58
11	Reversal of Insulin Resistance in Overweight and Obese Subjects by trans-Resveratrol and Hesperetin Combinationâ€”Link to Dysglycemia, Blood Pressure, Dyslipidemia, and Low-Grade Inflammation. Nutrients, 2021, 13, 2374.	4.1	37
12	The uremic toxin oxythiamine causes functional thiamine deficiency in end-stage renal disease by inhibiting transketolase activity. Kidney International, 2016, 90, 396-403.	5.2	35
13	Dicarbonyl stress, protein glycation and the unfolded protein response. Glycoconjugate Journal, 2021, 38, 331-340.	2.7	32
14	Sulforaphane Delays Fibroblast Senescence by Curbing Cellular Glucose Uptake, Increased Glycolysis, and Oxidative Damage. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-16.	4.0	27
15	Reappraisal of putative glyoxalase 1-deficient mouse and dicarbonyl stress on embryonic stem cellsin vitro. Biochemical Journal, 2016, 473, 4255-4270.	3.7	26
16	Hexokinase-2-Linked Glycolytic Overload and Unscheduled Glycolysisâ€”Driver of Insulin Resistance and Development of Vascular Complications of Diabetes. International Journal of Molecular Sciences, 2022, 23, 2165.	4.1	22
17	Decreased expression of the vitamin D receptor in women with recurrent pregnancy loss. Archives of Biochemistry and Biophysics, 2016, 606, 128-133.	3.0	19
18	Glycolytic overload-driven dysfunction of periodontal ligament fibroblasts in high glucose concentration, corrected by glyoxalase 1 inducer. BMJ Open Diabetes Research and Care, 2020, 8, e001458.	2.8	19

#	Article	IF	Citations
19	Copy number variation of glyoxalase I. Biochemical Society Transactions, 2014, 42, 500-503.	3.4	18
20	Women with Recurrent Miscarriage Have Decreased Expression of 25-Hydroxyvitamin D3-1Î±-Hydroxylase by the Fetal-Maternal Interface. PLoS ONE, 2016, 11, e0165589.	2.5	18
21	Frequency modulated translocational oscillations of Nrf2, a transcription factor functioning like a wireless sensor. Biochemical Society Transactions, 2015, 43, 669-673.	3.4	15
22	Measurement of glyoxalase gene expression. Biochemical Society Transactions, 2014, 42, 495-499.	3.4	10
23	Studies of Glyoxalase 1-Linked Multidrug Resistance Reveal Glycolysis-Derived Reactive Metabolite, Methylglyoxal, Is a Common Contributor in Cancer Chemotherapy Targeting the Spliceosome. Frontiers in Oncology, 2021, 11, 748698.	2.8	10
24	Glyoxalase 1 copy number variation in patients with well differentiated gastro-entero-pancreatic neuroendocrine tumours (GEP-NET). Oncotarget, 2017, 8, 76961-76973.	1.8	5
25	Protein damage in the ageing process: advances in quantitation and the importance of enzymatic defences. SEB Experimental Biology Series, 2009, 62, 227-65.	0.1	0