

Naila Rabbani

List of Publications by Year in Descending Order

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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.

115
papers

6,621
citations

45
h-index

80
g-index

126
ext. papers

7,599
ext. citations

5.7
avg, IF

6.33
L-index

#	Paper	IF	Citations
115	Hexokinase-2-Linked Glycolytic Overload and Unscheduled Glycolysis-Driver of Insulin Resistance and Development of Vascular Complications of Diabetes.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
114	Emerging Glycation-Based Therapeutics-Glyoxalase 1 Inducers and Glyoxalase 1 Inhibitors.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	4
113	Studies of Glyoxalase 1-Linked Multidrug Resistance Reveal Glycolysis-Derived Reactive Metabolite, Methylglyoxal, Is a Common Contributor in Cancer Chemotherapy Targeting the Spliceosome. <i>Frontiers in Oncology</i> , 2021 , 11, 748698	5.3	1
112	Dicarbonyl stress, protein glycation and the unfolded protein response. <i>Glycoconjugate Journal</i> , 2021 , 38, 331-340	3	7
111	Protein glycation - biomarkers of metabolic dysfunction and early-stage decline in health in the era of precision medicine. <i>Redox Biology</i> , 2021 , 42, 101920	11.3	7
110	186-OR: Risk Prediction of Early Decline in Renal Function in Diabetic Kidney Disease with Algorithm Including Fractional Excretion of Glycated Amino Acids. <i>Diabetes</i> , 2021 , 70, 186-OR	0.9	0
109	Reversal of Insulin Resistance in Overweight and Obese Subjects by -Resveratrol and Hesperetin Combination-Link to Dysglycemia, Blood Pressure, Dyslipidemia, and Low-Grade Inflammation. <i>Nutrients</i> , 2021 , 13,	6.7	10
108	Vulnerabilities of the SARS-CoV-2 Virus to Proteotoxicity-Opportunity for Repurposed Chemotherapy of COVID-19 Infection. <i>Frontiers in Pharmacology</i> , 2020 , 11, 585408	5.6	13
107	Glycolytic overload-driven dysfunction of periodontal ligament fibroblasts in high glucose concentration, corrected by glyoxalase 1 inducer. <i>BMJ Open Diabetes Research and Care</i> , 2020 , 8,	4.5	8
106	Potential Markers of Dietary Glycemic Exposures for Sustained Dietary Interventions in Populations without Diabetes. <i>Advances in Nutrition</i> , 2020 , 11, 1221-1236	10	6
105	Protein Glycation in Plants-An Under-Researched Field with Much Still to Discover. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
104	A low glycemic diet protects disease-prone Nrf2-deficient mice against age-related macular degeneration. <i>Free Radical Biology and Medicine</i> , 2020 , 150, 75-86	7.8	8
103	Reading patterns of proteome damage by glycation, oxidation and nitration: quantitation by stable isotopic dilution analysis LC-MS/MS. <i>Essays in Biochemistry</i> , 2020 , 64, 169-183	7.6	9
102	Dicarbonyl stress and the glyoxalase system 2020 , 759-777		3
101	High fractional excretion of glycation adducts is associated with subsequent early decline in renal function in type 1 diabetes. <i>Scientific Reports</i> , 2020 , 10, 12709	4.9	2
100	Hexokinase-2 Glycolytic Overload in Diabetes and Ischemia-Reperfusion Injury. <i>Trends in Endocrinology and Metabolism</i> , 2019 , 30, 419-431	8.8	25
99	Activation of the unfolded protein response in high glucose treated endothelial cells is mediated by methylglyoxal. <i>Scientific Reports</i> , 2019 , 9, 7889	4.9	37

98	Urinary Metabolomic Markers of Protein Glycation, Oxidation, and Nitration in Early-Stage Decline in Metabolic, Vascular, and Renal Health. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 4851323	6.7	10
97	Glyoxalase 1 Modulation in Obesity and Diabetes. <i>Antioxidants and Redox Signaling</i> , 2019 , 30, 354-374	8.4	40
96	Advanced glycation endproducts, dityrosine and arginine transporter dysfunction in autism - a source of biomarkers for clinical diagnosis. <i>Molecular Autism</i> , 2018 , 9, 3	6.5	43
95	Advanced glycation end products in the pathogenesis of chronic kidney disease. <i>Kidney International</i> , 2018 , 93, 803-813	9.9	142
94	Studies of advanced glycation end products and oxidation biomarkers for type 2 diabetes. <i>BioFactors</i> , 2018 , 44, 281-288	6.1	25
93	Multiple roles of glyoxalase 1-mediated suppression of methylglyoxal glycation in cancer biology-Involvement in tumour suppression, tumour growth, multidrug resistance and target for chemotherapy. <i>Seminars in Cancer Biology</i> , 2018 , 49, 83-93	12.7	44
92	Glycation marker glucosepane increases with the progression of osteoarthritis and correlates with morphological and functional changes of cartilage in vivo. <i>Arthritis Research and Therapy</i> , 2018 , 20, 131	5.7	13
91	Proteomic identification and characterization of hepatic glyoxalase 1 dysregulation in non-alcoholic fatty liver disease. <i>Proteome Science</i> , 2018 , 16, 4	2.6	12
90	Glycation- and/or Polyol Pathway-Inducing Complications 2018 , 170-179		0
89	Sulforaphane Delays Fibroblast Senescence by Curbing Cellular Glucose Uptake, Increased Glycolysis, and Oxidative Damage. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 5642148	6.7	18
88	Involvement of a gut-retina axis in protection against dietary glycemia-induced age-related macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E4472-E4481	11.5	117
87	Relation of the protein glycation, oxidation and nitration to the osteocalcin level in obese subjects. <i>Acta Biochimica Polonica</i> , 2017 , 64, 415-422	2	7
86	Intracellular Accumulation of Methylglyoxal by Glyoxalase 1 Knock Down Alters Collagen Homeostasis in L6 Myoblasts. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	16
85	Glyoxalase 1 copy number variation in patients with well differentiated gastro-entero-pancreatic neuroendocrine tumours (GEP-NET). <i>Oncotarget</i> , 2017 , 8, 76961-76973	3.3	4
84	Mass spectrometric determination of early and advanced glycation in biology. <i>Glycoconjugate Journal</i> , 2016 , 33, 553-68	3	50
83	Protein oxidation, nitration and glycation biomarkers for early-stage diagnosis of osteoarthritis of the knee and typing and progression of arthritic disease. <i>Arthritis Research and Therapy</i> , 2016 , 18, 250	5.7	46
82	Methylglyoxal-induced dicarbonyl stress in aging and disease: first steps towards glyoxalase 1-based treatments. <i>Clinical Science</i> , 2016 , 130, 1677-96	6.5	94
81	Dicarbonyls and glyoxalase in disease mechanisms and clinical therapeutics. <i>Glycoconjugate Journal</i> , 2016 , 33, 513-25	3	99

80 Glycation of Proteins **2016**, 307-332

79	Dicarbonyl stress in clinical obesity. <i>Glycoconjugate Journal</i> , 2016 , 33, 581-9	3	45
78	Glyoxalase 1-knockdown in human aortic endothelial cells - effect on the proteome and endothelial function estimates. <i>Scientific Reports</i> , 2016 , 6, 37737	4.9	23
77	Reappraisal of putative glyoxalase 1-deficient mouse and dicarbonyl stress on embryonic stem cells in vitro. <i>Biochemical Journal</i> , 2016 , 473, 4255-4270	3.8	19
76	The uremic toxin oxythiamine causes functional thiamine deficiency in end-stage renal disease by inhibiting transketolase activity. <i>Kidney International</i> , 2016 , 90, 396-403	9.9	23
75	Improved Glycemic Control and Vascular Function in Overweight and Obese Subjects by Glyoxalase 1 Inducer Formulation. <i>Diabetes</i> , 2016 , 65, 2282-94	0.9	132
74	Quantitation of plasma thiamine, related metabolites and plasma protein oxidative damage markers in children with autism spectrum disorder and healthy controls. <i>Free Radical Research</i> , 2016 , 50, S85-S90	4	21
73	Dicarbonyl stress in cell and tissue dysfunction contributing to ageing and disease. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 458, 221-6	3.4	214
72	Hidden complexities in the measurement of fructosyl-lysine and advanced glycation end products for risk prediction of vascular complications of diabetes. <i>Diabetes</i> , 2015 , 64, 9-11	0.9	12
71	Frequency Modulated Translocational Oscillations of Nrf2 Mediate the Antioxidant Response Element Cytoprotective Transcriptional Response. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 613-29	8.4	53
70	Biomarkers of early stage osteoarthritis, rheumatoid arthritis and musculoskeletal health. <i>Scientific Reports</i> , 2015 , 5, 9259	4.9	37
69	Frequency modulated translocational oscillations of Nrf2, a transcription factor functioning like a wireless sensor. <i>Biochemical Society Transactions</i> , 2015 , 43, 669-73	5.1	13
68	Factors influencing the development and effectiveness of biomarkers in rheumatoid arthritis and osteoarthritis. <i>International Journal of Clinical Rheumatology</i> , 2015 , 10, 313-316	1.5	
67	Increased DNA dicarbonyl glycation and oxidation markers in patients with type 2 diabetes and link to diabetic nephropathy. <i>Journal of Diabetes Research</i> , 2015 , 2015, 915486	3.9	24
66	Oxygen restriction as challenge test reveals early high-fat-diet-induced changes in glucose and lipid metabolism. <i>Pflugers Archiv European Journal of Physiology</i> , 2015 , 467, 1179-93	4.6	6
65	Detection of oxidized and glycated proteins in clinical samples using mass spectrometry--a user's perspective. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 818-29	4	89
64	Study of an unusual advanced glycation end-product (AGE) derived from glyoxal using mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 673-83	3.5	9
63	Measurement of methylglyoxal by stable isotopic dilution analysis LC-MS/MS with corroborative prediction in physiological samples. <i>Nature Protocols</i> , 2014 , 9, 1969-79	18.8	144

62	Possible role of methylglyoxal and glyoxalase in arthritis. <i>Biochemical Society Transactions</i> , 2014 , 42, 538-42	5.1	28
61	Measurement of glyoxalase gene expression. <i>Biochemical Society Transactions</i> , 2014 , 42, 495-9	5.1	9
60	Assay of methylglyoxal and glyoxal and control of peroxidase interference. <i>Biochemical Society Transactions</i> , 2014 , 42, 504-10	5.1	22
59	Measurement of glyoxalase activities. <i>Biochemical Society Transactions</i> , 2014 , 42, 491-4	5.1	56
58	Arginine-directed glycation and decreased HDL plasma concentration and functionality. <i>Nutrition and Diabetes</i> , 2014 , 4, e134	4.7	48
57	Copy number variation of glyoxalase I. <i>Biochemical Society Transactions</i> , 2014 , 42, 500-3	5.1	14
56	Glyoxalase Centennial conference: introduction, history of research on the glyoxalase system and future prospects. <i>Biochemical Society Transactions</i> , 2014 , 42, 413-8	5.1	27
55	A fluorogenic assay for methylglyoxal. <i>Biochemical Society Transactions</i> , 2014 , 42, 548-55	5.1	18
54	Activity, regulation, copy number and function in the glyoxalase system. <i>Biochemical Society Transactions</i> , 2014 , 42, 419-24	5.1	69
53	Assay of methylglyoxal-derived protein and nucleotide AGEs. <i>Biochemical Society Transactions</i> , 2014 , 42, 511-7	5.1	54
52	Dicarbonyl proteome and genome damage in metabolic and vascular disease. <i>Biochemical Society Transactions</i> , 2014 , 42, 425-32	5.1	93
51	Differential effects of glyoxalase 1 overexpression on diabetic atherosclerosis and renal dysfunction in streptozotocin-treated, apolipoprotein E-deficient mice. <i>Physiological Reports</i> , 2014 , 2, e12043	2.6	30
50	The critical role of methylglyoxal and glyoxalase 1 in diabetic nephropathy. <i>Diabetes</i> , 2014 , 63, 50-2	0.9	100
49	Aging-dependent reduction in glyoxalase 1 delays wound healing. <i>Gerontology</i> , 2013 , 59, 427-37	5.5	46
48	Diabetes is associated with posttranslational modifications in plasminogen resulting in reduced plasmin generation and enzyme-specific activity. <i>Blood</i> , 2013 , 122, 134-42	2.2	59
47	Glycation research in amino acids: a place to call home. <i>Amino Acids</i> , 2012 , 42, 1087-96	3.5	95
46	Methylglyoxal, glyoxalase 1 and the dicarbonyl proteome. <i>Amino Acids</i> , 2012 , 42, 1133-42	3.5	285
45	Dietary and synthetic activators of the antistress gene response in treatment of renal disease. <i>Journal of Renal Nutrition</i> , 2012 , 22, 195-202	3	11

44	Determination of types and binding sites of advanced glycation end products for substance P. <i>Analytical Chemistry</i> , 2012 , 84, 10568-75	7.8	9
43	Disturbance of B-vitamin status in people with type 2 diabetes in Indonesia--link to renal status, glycemic control and vascular inflammation. <i>Diabetes Research and Clinical Practice</i> , 2012 , 95, 415-24	7.4	17
42	Advanced Glycation Endproducts (AGEs) 2012 , 293-304		1
41	Methylglyoxal modification of Nav1.8 facilitates nociceptive neuron firing and causes hyperalgesia in diabetic neuropathy. <i>Nature Medicine</i> , 2012 , 18, 926-33	50.5	339
40	Serum levels of advanced glycation endproducts and other markers of protein damage in early diabetic nephropathy in type 1 diabetes. <i>PLoS ONE</i> , 2012 , 7, e35655	3.7	36
39	Transcriptional control of glyoxalase 1 by Nrf2 provides a stress-responsive defence against dicarbonyl glycation. <i>Biochemical Journal</i> , 2012 , 443, 213-22	3.8	209
38	Effect of Irbesartan treatment on plasma and urinary markers of protein damage in patients with type 2 diabetes and microalbuminuria. <i>Amino Acids</i> , 2012 , 42, 1627-39	3.5	19
37	Glucose-induced down regulation of thiamine transporters in the kidney proximal tubular epithelium produces thiamine insufficiency in diabetes. <i>PLoS ONE</i> , 2012 , 7, e53175	3.7	33
36	Glyoxalase in tumorigenesis and multidrug resistance. <i>Seminars in Cell and Developmental Biology</i> , 2011 , 22, 318-25	7.5	127
35	Glyoxalase in ageing. <i>Seminars in Cell and Developmental Biology</i> , 2011 , 22, 293-301	7.5	133
34	Glyoxalase in diabetes, obesity and related disorders. <i>Seminars in Cell and Developmental Biology</i> , 2011 , 22, 309-17	7.5	178
33	Protein damage in diabetes and uremia--identifying hotspots of proteome damage where minimal modification is amplified to marked pathophysiological effect. <i>Free Radical Research</i> , 2011 , 45, 89-100	4	26
32	Methylglyoxal modification of LDL: proatherogenicity without oxidation opens new paths to prevent cardiovascular disease. <i>Clinical Lipidology</i> , 2011 , 6, 631-634		2
31	Emerging role of thiamine therapy for prevention and treatment of early-stage diabetic nephropathy. <i>Diabetes, Obesity and Metabolism</i> , 2011 , 13, 577-83	6.7	34
30	Alpha-synuclein deficiency leads to increased glyoxalase I expression and glycation stress. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 721-33	10.3	64
29	Glycation of LDL by methylglyoxal increases arterial atherogenicity: a possible contributor to increased risk of cardiovascular disease in diabetes. <i>Diabetes</i> , 2011 , 60, 1973-80	0.9	109
28	Thiamine in Diabetic Renal Disease: Dietary Insufficiency, Renal Washout, Antistress Gene Response, Therapeutic Supplements, Risk Predictor, and Link to Genetic Susceptibility 2011 , 93-104		
27	Imidazopurinones are markers of physiological genomic damage linked to DNA instability and glyoxalase 1-associated tumour multidrug resistance. <i>Nucleic Acids Research</i> , 2010 , 38, 5432-42	20.1	79

26	Increased glycation and oxidative damage to apolipoprotein B100 of LDL cholesterol in patients with type 2 diabetes and effect of metformin. <i>Diabetes</i> , 2010 , 59, 1038-45	0.9	87
25	Oxidative Modification of Proteins: An Overview 2010 , 137-156		
24	Increased protein damage in renal glomeruli, retina, nerve, plasma and urine and its prevention by thiamine and benfotiamine therapy in a rat model of diabetes. <i>Diabetologia</i> , 2010 , 53, 1506-16	10.3	99
23	<i>C. elegans</i> as model for the study of high glucose- mediated life span reduction. <i>Diabetes</i> , 2009 , 58, 2450-6	10.6	206
22	Advanced glycation end products in extracellular matrix proteins contribute to the failure of sensory nerve regeneration in diabetes. <i>Diabetes</i> , 2009 , 58, 2893-903	0.9	127
21	Hyperglycemic kidney damage in an animal model of prolonged critical illness. <i>Kidney International</i> , 2009 , 76, 512-20	9.9	50
20	Severe thiamine deficiency complicated by weight loss protects against renal ischaemia-reperfusion injury in rats. <i>CKJ: Clinical Kidney Journal</i> , 2009 , 2, 182-3	4.5	2
19	Glyoxalase II does not support methylglyoxal detoxification but serves as a general trypanothione thioesterase in African trypanosomes. <i>Molecular and Biochemical Parasitology</i> , 2009 , 163, 19-27	1.9	34
18	High-dose thiamine therapy for patients with type 2 diabetes and microalbuminuria: a randomised, double-blind placebo-controlled pilot study. <i>Diabetologia</i> , 2009 , 52, 208-12	10.3	116
17	Thiamine in diabetic nephropathy: a novel treatment modality? Reply to Alkhalaf A, Kleefstra N, Groenier KH et al. [letter]. <i>Diabetologia</i> , 2009 , 52, 1214-1216	10.3	6
16	Quantitative measurement of specific biomarkers for protein oxidation, nitration and glycation in Arabidopsis leaves. <i>Plant Journal</i> , 2009 , 59, 661-71	6.9	60
15	Highlights and hotspots of protein glycation in end-stage renal disease. <i>Seminars in Dialysis</i> , 2009 , 22, 400-4	2.5	52
14	Tissue-specific glucose toxicity induces mitochondrial damage in a burn injury model of critical illness. <i>Critical Care Medicine</i> , 2009 , 37, 1355-64	1.4	579
13	Quantitation of Markers of Protein Damage by Glycation, Oxidation, and Nitration in Peritoneal Dialysis. <i>Peritoneal Dialysis International</i> , 2009 , 29, 51-56	2.8	16
12	Quantitation of markers of protein damage by glycation, oxidation, and nitration in peritoneal dialysis. <i>Peritoneal Dialysis International</i> , 2009 , 29 Suppl 2, S51-6	2.8	2
11	Assay of 3-nitrotyrosine in tissues and body fluids by liquid chromatography with tandem mass spectrometric detection. <i>Methods in Enzymology</i> , 2008 , 440, 337-59	1.7	24
10	Activation of NF-E2-related factor-2 reverses biochemical dysfunction of endothelial cells induced by hyperglycemia linked to vascular disease. <i>Diabetes</i> , 2008 , 57, 2809-17	0.9	194
9	Dicarbonyls linked to damage in the powerhouse: glycation of mitochondrial proteins and oxidative stress. <i>Biochemical Society Transactions</i> , 2008 , 36, 1045-50	5.1	129

8	Reversal of hyperglycemia-induced angiogenesis deficit of human endothelial cells by overexpression of glyoxalase 1 in vitro. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1126, 262-4	6.5	39
7	Preparation of nucleotide advanced glycation endproducts--imidazopurinone adducts formed by glycation of deoxyguanosine with glyoxal and methylglyoxal. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1126, 280-2	6.5	6
6	The dicarbonyl proteome: proteins susceptible to dicarbonyl glycation at functional sites in health, aging, and disease. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1126, 124-7	6.5	65
5	High prevalence of low plasma thiamine concentration in diabetes linked to a marker of vascular disease. <i>Diabetologia</i> , 2007 , 50, 2164-70	10.3	171
4	High glucose increases angiotensin-2 transcription in microvascular endothelial cells through methylglyoxal modification of mSin3A. <i>Journal of Biological Chemistry</i> , 2007 , 282, 31038-45	5.4	174
3	Accumulation of free adduct glycation, oxidation, and nitration products follows acute loss of renal function. <i>Kidney International</i> , 2007 , 72, 1113-21	9.9	64
2	Vulnerabilities of the SARS-CoV-2 virus to proteotoxicity [Opportunity for repurposed chemotherapy of COVID-19 infection		2
1	Dicarbonyls (Glyoxal, Methylglyoxal, and 3-Deoxyglucosone)177-192		14