Khursheed Alam

List of Publications by Year
in descending order

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86 papers	1,712 citations	257101 24 h-index	344852 36 g-index
86 all docs	86 docs citations	86 times ranked	1721 citing authors

#	Article	IF	Citations
1	Genotoxicity and immunogenicity of DNA-advanced glycation end products formed by methylglyoxal and lysine in presence of Cu2+. Biochemical and Biophysical Research Communications, 2011, 407, 568-574.	1.0	110
2	Protective effect of aminoguanidine, a nitric oxide synthase inhibitor, against carbon tetrachloride induced hepatotoxicity in mice. Life Sciences, 1999, 66, 265-270.	2.0	69
3	Preferential recognition of Amadori-rich lysine residues by serum antibodies in diabetes mellitus: Role of protein glycation in the disease process. Human Immunology, 2009, 70, 417-424.	1.2	61
4	Glycoxidative damage to human DNA: Neo-antigenic epitopes on DNA molecule could be a possible reason for autoimmune response in type 1 diabetes. Glycobiology, 2014, 24, 281-291.	1.3	52
5	Methylglyoxal mediated conformational changes in histone H2Aâ€"generation of carboxyethylated advanced glycation end products. International Journal of Biological Macromolecules, 2014, 69, 260-266.	3.6	52
6	THE PROTECTIVE ACTION OF THYMOL AGAINST CARBON TETRACHLORIDE HEPATOTOXICITY IN MICE. Pharmacological Research, 1999, 40, 159-163.	3.1	49
7	Structural and immunological characterization of Amadori-rich human serum albumin: Role in diabetes mellitus. Archives of Biochemistry and Biophysics, 2012, 522, 17-25.	1.4	46
8	Hydroxyl Radical Modification of Collagen Type II Increases Its Arthritogenicity and Immunogenicity. PLoS ONE, 2012, 7, e31199.	1.1	46
9	Glycation of H1 Histone by 3-Deoxyglucosone: Effects on Protein Structure and Generation of Different Advanced Glycation End Products. PLoS ONE, 2015, 10, e0130630.	1.1	45
10	3-Deoxyglucosone: A Potential Glycating Agent Accountable for Structural Alteration in H3 Histone Protein through Generation of Different AGEs. PLoS ONE, 2015, 10, e0116804.	1.1	45
11	Immunogenicity of mitochondrial DNA modified by hydroxyl radical. Cellular Immunology, 2007, 247, 12-17.	1.4	44
12	Impact of in vitro non-enzymatic glycation on biophysical and biochemical regimes of human serum albumin: relevance in diabetes associated complications. RSC Advances, 2015, 5, 63605-63614.	1.7	40
13	The effect of hydroxyl radical on the antigenicity of native DNA. FEBS Letters, 1993, 319, 66-70.	1.3	39
14	Fine characterization of glucosylated human IgG by biochemical and biophysical methods. International Journal of Biological Macromolecules, 2014, 69, 408-415.	3.6	39
15	Impact of Peroxynitrite Modification on Structure and Immunogenicity of H2A Histone. Scandinavian Journal of Immunology, 2009, 69, 99-109.	1.3	37
16	Acquired immunogenicity of human DNA damaged by Nâ€hydroxyâ€Nâ€acetylâ€4â€aminobiphenyl. IUBMB Life, 2012, 64, 340-345.	1.5	34
17	Anti-arthritogenic and cardioprotective action of hesperidin and daidzein in collagen-induced rheumatoid arthritis. Molecular and Cellular Biochemistry, 2016, 423, 115-127.	1.4	34
18	Human DNA damage by the synergistic action of 4â€aminobiphenyl and nitric oxide: An immunochemical study. Environmental Toxicology, 2014, 29, 568-576.	2.1	31

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19	Enhanced binding of circulating SLE autoantibodies to catecholestrogen-copper-modified DNA. Molecular and Cellular Biochemistry, 2008, 315, 143-150.	1.4	29
20	Genotoxic Effect of N-Hydroxy-4-Acetylaminobiphenyl on Human DNA: Implications in Bladder Cancer. PLoS ONE, 2013, 8, e53205.	1.1	29
21	Nonenzymatic glycosylation of human serum albumin and its effect on antibodies profile in patients with diabetes mellitus. PLoS ONE, 2017, 12, e0176970.	1.1	29
22	Structural changes in histone H2A by methylglyoxal generate highly immunogenic amorphous aggregates with implications in auto-immune response in cancer. Glycobiology, 2016, 26, 129-141.	1.3	28
23	Catechol-estrogen modified DNA: A better antigen for cancer autoantibody. Archives of Biochemistry and Biophysics, 2007, 465, 293-300.	1.4	26
24	Physicochemical studies on peroxynitrite-modified H3 histone. International Journal of Biological Macromolecules, 2010, 46, 20-26.	3.6	26
25	Biophysical and biochemical studies on glycoxidatively modified human low density lipoprotein. Archives of Biochemistry and Biophysics, 2018, 645, 87-99.	1.4	25
26	Physicochemical and immunological studies on 4-hydroxynonenal modified HSA: Implications of protein damage by lipid peroxidation products in the etiopathogenesis of SLE. Human Immunology, 2012, 73, 1132-1139.	1.2	24
27	Studies on peroxynitrite-modified H1 histone: Implications in systemic lupus erythematosus. Biochimie, 2014, 97, 104-113.	1.3	24
28	Hyperglycemia induced structural and functional changes in human serum albumin of diabetic patients: a physico-chemical study. Molecular BioSystems, 2016, 12, 2481-2489.	2.9	23
29	Peroxynitrite-induced modification of H2A histone presents epitopes which are strongly bound by human anti-DNA autoantibodies: Role of peroxynitrite-modified-H2A in SLE induction and progression. Human Immunology, 2011, 72, 219-225.	1.2	22
30	Physicochemical analysis of structural changes in DNA modified with glucose. International Journal of Biological Macromolecules, 2012, 51, 604-611.	3.6	21
31	Peroxynitrite-modified histone as a pathophysiological biomarker in autoimmune diseases. Biochimie, 2017, 140, 1-9.	1.3	21
32	Autoimmune response to AGE modified human DNA: Implications in type 1 diabetes mellitus. Journal of Clinical and Translational Endocrinology, 2014, 1, 66-72.	1.0	20
33	Dicarbonyl Induced Structural Perturbations Make Histone H1 Highly Immunogenic and Generate an Auto-Immune Response in Cancer. PLoS ONE, 2015, 10, e0136197.	1.1	20
34	Role of peroxynitrite-modified H2A histone in the induction and progression of rheumatoid arthritis. Scandinavian Journal of Rheumatology, 2012, 41, 426-433.	0.6	19
35	New insights into non-enzymatic glycation of human serum albumin biopolymer: A study to unveil its impaired structure and function. International Journal of Biological Macromolecules, 2017, 101, 84-99.	3.6	19
36	Steroidal pyrimidines: Synthesis, characterization, molecular docking studies with DNA and in vitro cytotoxicity. Journal of Molecular Structure, 2013, 1045, 62-71.	1.8	18

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37	Role of Early Glycation Amadori Products of Lysine-Rich Proteins in the Production of Autoantibodies in Diabetes Type 2 Patients. Cell Biochemistry and Biophysics, 2014, 70, 857-865.	0.9	18
38	Glycated-H2A histone is better bound by serum anti-DNA autoantibodies in SLE patients: Glycated-histones as likely trigger for SLE?. Autoimmunity, 2015, 48, 19-28.	1.2	18
39	Immunochemical studies on HNE-modified HSA: Anti-HNEâ€“HSA antibodies as a probe for HNE damaged albumin in SLE. International Journal of Biological Macromolecules, 2016, 86, 145-154.	3.6	18
40	Role of peroxynitrite induced structural changes on H2B histone by physicochemical method. International Journal of Biological Macromolecules, 2016, 82, 31-38.	3.6	18
41	Studies on glycoxidatively modified human IgG: Implications in immuno-pathology of type 2 diabetes mellitus. International Journal of Biological Macromolecules, 2017, 104, 19-29.	3.6	18
42	How Do Internal Medicine Residency Programs Evaluate Their Resident Float Experiences?. Southern Medical Journal, 2006, 99, 919-923.	0.3	18
43	Role of Carbamylated Biomolecules in Human Diseases. IUBMB Life, 2018, 70, 267-275.	1.5	16
44	Glycation, oxidation and glycoxidation of IgG: a biophysical, biochemical, immunological and hematological study. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2637-2653.	2.0	16
45	Antigen binding characteristics of antibodies against hydroxyl radical modified thymidine monophosphate. Immunology Letters, 2000, 71, 111-115.	1.1	14
46	Study of IL4â€590C/T and IL6â€174G/C Gene Polymorphisms in Type 2 Diabetic Patients With Chronic Kidney Disease in North Indian Population. Journal of Cellular Biochemistry, 2017, 118, 1803-1809.	1.2	14
47	Neo-Epitopes Generated on Hydroxyl Radical Modified GlycatedIgG Have Role in Immunopathology of Diabetes Type 2. PLoS ONE, 2017, 12, e0169099.	1.1	14
48	Peroxynitrite modified DNA presents better epitopes for anti-DNA autoantibodies in diabetes type 1 patients. Cellular Immunology, 2014, 290, 30-38.	1.4	12
49	Preferential recognition of advanced glycation end products by serum antibodies and low-grade systemic inflammation in diabetes mellitus and its complications. International Journal of Biological Macromolecules, 2018, 118, 1884-1891.	3.6	12
50	Methylglyoxal produces more changes in biochemical and biophysical properties of human IgG under high glucose compared to normal glucose level. PLoS ONE, 2018, 13, e0191014.	1.1	12
51	Impact of glycation on structural and antioxidant function of human serum albumin: Relevance in diabetic complications. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2016, 10, 96-101.	1.8	11
52	Glycated albumin and the risk of chronic kidney disease in subjects with Type 2 Diabetes: A study in North Indian Population. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2018, 12, 381-385.	1.8	11
53	Fructose-human serum albumin interaction undergoes numerous biophysical and biochemical changes before forming AGEs and aggregates. International Journal of Biological Macromolecules, 2018, 109, 896-906.	3.6	11
54	A study on correlation between oxidative stress parameters and inflammatory markers in type 2 diabetic patients with kidney dysfunction in north Indian population. Journal of Cellular Biochemistry, 2019, 120, 4892-4902.	1.2	11

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55	Characterization of human serum albumin modified by hair dye component, 4-chloro-1,2-phenylenediamine: Role in protein aggregation, redox biology and cytotoxicity. Journal of Molecular Liquids, 2021, 331, 115731.	2.3	11
56	Isolation and characterization of provisional serovar Shigella boydii E16553 from diarrhoeal patients in Bangladesh. Journal of Medical Microbiology, 2005, 54, 477-480.	0.7	10
57	Nitroxidized-Albumin Advanced Glycation End Product and Rheumatoid Arthritis. Archives of Rheumatology, 2019, 34, 461-475.	0.3	10
58	Peroxynitrite-induced structural perturbations in human IgG: A physicochemical study. Archives of Biochemistry and Biophysics, 2016, 603, 72-80.	1.4	9
59	Nitration of H2B histone elicits an immune response in experimental animals. Autoimmunity, 2017, 50, 232-240.	1.2	9
60	Naturally Occurring SLE Antiâ€DNA Antibodies Recognize Unique Conformation on DNAâ€Lysine Photoadduct. Microbiology and Immunology, 1992, 36, 1003-1007.	0.7	8
61	A clinical correlation of anti-DNA-AGE autoantibodies in type 2 diabetes mellitus with disease duration. Cellular Immunology, 2015, 293, 74-79.	1.4	8
62	Human autoantibody binding to multiple conformations of DNA. Biochemistry International, 1992, 26, 597-605.	0.2	8
63	Elucidating the impact of glucosylation on human serum albumin: A multi-technique approach. International Journal of Biological Macromolecules, 2016, 92, 881-891.	3.6	7
64	Glycation, nitro-oxidation and glyco-nitro-oxidation of human serum albumin: A physico-chemical study. Journal of Molecular Structure, 2020, 1210, 127991.	1.8	7
65	Beneficial effect of nitric oxide synthase inhibitor on hepatotoxicity induced by allyl alcohol. Journal of Biochemical and Molecular Toxicology, 2001, 15, 317-321.	1.4	6
66	Peroxynitrite-modified H3 Histone is Highly Immunogenic and Binds Circulating SLE Autoantibodies Better than Native DNA. American Journal of Biomedical Sciences, 0, , 69-79.	0.2	6
67	Non-enzymatic glucosylation induced neo-epitopes on human serum albumin: A concentration based study. PLoS ONE, 2017, 12, e0172074.	1.1	6
68	Attenuation of hyperglycemia and amadori products by aminoguanidine in alloxan-diabetic rabbits occurs via enhancement in antioxidant defenses and control of stress. PLoS ONE, 2022, 17, e0262233.	1.1	6
69	Teratoma of the liver--a case report. Indian Journal of Pathology and Microbiology, 1998, 41, 457-9.	0.1	6
70	Therapeutic role of hesperidin in collagenâ€induced rheumatoid arthritis through antiglycation and antioxidant activities. Cell Biochemistry and Function, 2022, 40, 473-480.	1.4	6
71	Detection of Autoantibodies Against Glycosylated-DNA in Diabetic Subjects: Its Possible Correlation with HbA_{1C}. Disease Markers, 2011, 30, 235-243.	0.6	5
72	Carbamylation of human serum albumin generates high-molecular weight aggregates: fine characterization by multi-spectroscopic methods and electron microscopy. International Journal of Biological Macromolecules, 2020, 164, 2380-2388.	3.6	5

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73	Human anti-DNA autoatibodies and induced antibodies against ROS-modified-DNA show similar antigenic binding characteristics. IUBMB Life, 1999, 47, 881-890.	1.5	3
74	Binding of circulating autoantibodies in breast cancer to native and peroxynitrite-modified RNA. Journal of Zhejiang University: Science B, 2013, 14, 40-46.	1.3	3
75	Physicochemical characterization of carbamylated human serum albumin: an in vitro study. RSC Advances, 2019, 9, 36508-36516.	1.7	3
76	Characterization of methylglyoxal-modified human IgG by physicochemical methods. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3172-3183.	2.0	2
77	Inhibitory effect of silibinin on Amadori-albumin in diabetes mellitus: A multi-spectroscopic and biochemical approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 209, 217-222.	2.0	2
78	Peroxynitrite-Mediated Structural Changes in Histone H2A: Biochemical and Biophysical Analysis. Protein and Peptide Letters, 2020, 27, 989-998.	0.4	2
79	Studies on the synergistic action of methylglyoxal and peroxynitrite on structure and function of human serum albumin. Journal of Biomolecular Structure and Dynamics, 2023, 41, 67-80.	2.0	2
80	Fructosylation induced structural changes in mammalian DNA examined by biophysical techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 174, 171-176.	2.0	1
81	A study on hepatopathic, dyslipidemic and immunogenic properties of fructosylated-HSA-AGE and binding of autoantibodies in sera of obese and overweight patients with fructosylated-HSA-AGE. PLoS ONE, 2019, 14, e0216736.	1.1	1
82	Impact of Hydroxyl Radical Modified-Human Serum Albumin Autoantigens in Systemic Lupus Erythematosus. Current Protein and Peptide Science, 2018, 19, 881-888.	0.7	1
83	Methylglyoxal-induces multiple stable changes in human serum albumin before forming nephrotoxic advanced glycation end-products: Injury demonstration in human embryonic kidney cells. International Journal of Biological Macromolecules, 2022, 214, 252-263.	3.6	1
84	Genotoxic effect and antigen binding characteristics of SLE auto-antibodies to peroxynitrite-modified human DNA. Archives of Biochemistry and Biophysics, 2017, 635, 8-16.	1.4	0
85	Nitroxidized-HSA induced oxidative damage in human erythrocytes: an ex vivo approach. Journal of Biomolecular Structure and Dynamics, 2020, 38, 918-927.	2.0	0
86	Impact of endogenous stress on albumin structure in systemic lupus erythematosus (SLE) patients. International Journal of Biological Macromolecules, 2020, 151, 891-900.	3.6	0