Husam M Abu-Soud

List of Publications by Year
in descending order

96 papers	5,586 citations	87888 38 h-index	79698 73 g-index
98 all docs	98 docs citations	98 times ranked	4945 citing authors

#	Article	IF	Citations
1	Potential Role of Zinc in the COVID-19 Disease Process and its Probable Impact on Reproduction. Reproductive Sciences, 2022, 29, 1-6.	2.5	12
2	Zinc Homeostasis, Reactive Oxygen Species Imbalance and Bisphenol-A Exposure in the Preimplantation Mouse Embryo: a possible adverse outcome pathway. Advances in Redox Research, 2022, 4, 100032.	2.1	1
3	A novel theory implicating hypochlorous acid as the primary generator of angiogenesis, infertility, and free iron in endometriosis. F&S Reviews, 2022, , .	1.3	2
4	Hypochlorous acid facilitates inducible nitric oxide synthase subunit dissociation: The link between heme destruction, disturbance of the zinc-tetrathiolate center, and the prevention by melatonin. Nitric Oxide - Biology and Chemistry, 2022, 124, 32-38.	2.7	5
5	A Multiple-Hit Hypothesis Involving Reactive Oxygen Species and Myeloperoxidase Explains Clinical Deterioration and Fatality in COVID-19. International Journal of Biological Sciences, 2021, 17, 62-72.	6.4	51
6	Melatonin interferes with COVID-19 at several distinct ROS-related steps. Journal of Inorganic Biochemistry, 2021, 223, 111546.	3.5	27
7	Hypochlorous acid reversibly inhibits caspase-3: a potential regulator of apoptosis. Free Radical Research, 2020, 54, 43-56.	3.3	14
8	The inhibition of lactoperoxidase catalytic activity through mesna (2-mercaptoethane sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	3.5	2
9	Glyphosate Induces Metaphase II Oocyte Deterioration and Embryo Damage by Zinc Depletion and Overproduction of Reactive Oxygen Species. Toxicology, 2020, 439, 152466.	4.2	22
10	Catalase prevents myeloperoxidase self-destruction in response to oxidative stress. Journal of Inorganic Biochemistry, 2019, 197, 110706.	3.5	17
11	Melatonin prevents hypochlorous acidâ€mediated cyanocobalamin destruction and cyanogen chloride generation. Journal of Pineal Research, 2018, 64, e12463.	7.4	23
12	Measurements of Intra-oocyte Nitric Oxide Concentration Using Nitric Oxide Selective Electrode. Methods in Molecular Biology, 2018, 1747, 13-21.	0.9	0
13	Acrolein, a commonly found environmental toxin, causes oocyte mitochondrial dysfunction and negatively affects embryo development. Free Radical Research, 2018, 52, 929-938.	3.3	14
14	Cyclophosphamide and acrolein induced oxidative stress leading to deterioration of metaphase II mouse oocyte quality. Free Radical Biology and Medicine, 2017, 110, 11-18.	2.9	111
15	Mesna (2-mercaptoethane sodium sulfonate) functions as a regulator of myeloperoxidase. Free Radical Biology and Medicine, 2017, 110, 54-62.	2.9	15
16	Galactose and its Metabolites Deteriorate Metaphase II Mouse Oocyte Quality and Subsequent Embryo Development by Disrupting the Spindle Structure. Scientific Reports, 2017, 7, 231.	3.3	29
17	Dimercapto-1-propanesulfonic acid (DMPS) induces metaphase II mouse oocyte deterioration. Free Radical Biology and Medicine, 2017, 112, 445-451.	2.9	9
18	Toxicology in Reproductive Endocrinology. Clinics in Laboratory Medicine, 2016, 36, 709-720.	1.4	2

#	Article	IF	Citations
19	Peroxynitrite deteriorates oocyte quality through disassembly of microtubule organizing centers. Free Radical Biology and Medicine, 2016, 91, 275-280.	2.9	15
20	The Defensive Role of Cumulus Cells Against Reactive Oxygen Species Insult in Metaphase II Mouse Oocytes. Reproductive Sciences, 2016, 23, 498-507.	2.5	57
21	The Impact of Myeloperoxidase and Activated Macrophages on Metaphase II Mouse Oocyte Quality. PLoS ONE, 2016, 11, e0151160.	2.5	24
22	Melatonin Prevents Myeloperoxidase Heme Destruction and the Generation of Free Iron Mediated by Self-Generated Hypochlorous Acid. PLoS ONE, 2015, 10, e0120737.	2.5	13
23	Diffused Intra-Oocyte Hydrogen Peroxide Activates Myeloperoxidase and Deteriorates Oocyte Quality. PLoS ONE, 2015, 10, e0132388.	2.5	22
24	Lycopene, a powerful antioxidant, significantly reduces the development of the adhesion phenotype. Systems Biology in Reproductive Medicine, 2014, 60, 14-20.	2.1	15
25	The Role of Oxidative Stress in the Development of Cisplatin Resistance in Epithelial Ovarian Cancer. Reproductive Sciences, 2014, 21, 503-508.	2.5	35
26	Nicotinamide Adenine Dinucleotide Phosphate Oxidase Is Differentially Regulated in Normal Myometrium Versus Leiomyoma. Reproductive Sciences, 2014, 21, 1145-1152.	2.5	24
27	Disruption of heme-peptide covalent cross-linking in mammalian peroxidases by hypochlorous acid. Journal of Inorganic Biochemistry, 2014, 140, 245-254.	3.5	13
28	Dynamics of nitric oxide, altered follicular microenvironment, and oocyte quality in women with endometriosis. Fertility and Sterility, 2014, 102, 151-159.e5.	1.0	96
29	Computational analysis of nitric oxide biotransport to red blood cell in the presence of free hemoglobin and NO donor. Microvascular Research, 2014, 95, 15-25.	2.5	5
30	Direct Real-Time Measurement of Intra-Oocyte Nitric Oxide Concentration In Vivo. PLoS ONE, 2014, 9, e98720.	2.5	16
31	Kinetic Studies on the Reaction between Dicyanocobinamide and Hypochlorous Acid. PLoS ONE, 2014, 9, e110595.	2.5	14
32	Myeloperoxidase acts as a source of free iron during steady-state catalysis by a feedback inhibitory pathway. Free Radical Biology and Medicine, 2013, 63, 90-98.	2.9	45
33	Peroxynitrite affects the cumulus cell defense of metaphase II mouse oocytes leading to disruption of the spindle structure inÂvitro. Fertility and Sterility, 2013, 100, 578-584.e1.	1.0	22
34	Impact of hydrogen peroxide-driven Fenton reaction on mouse oocyte quality. Free Radical Biology and Medicine, 2013, 58, 154-159.	2.9	38
35	Myeloperoxidase and free iron levels: Potential biomarkers for early detection and prognosis of ovarian cancer. Cancer Biomarkers, 2012, 10, 267-275.	1.7	29
36	IL-6 and Mouse Oocyte Spindle. PLoS ONE, 2012, 7, e35535.	2.5	30

#	Article	IF	Citations
37	Melatonin prevents hypochlorous acidâ€induced alterations in microtubule and chromosomal structure in metaphaseâ€II mouse oocytes. Journal of Pineal Research, 2012, 53, 122-128.	7.4	38
38	The reaction of HOCl and cyanocobalamin: Corrin destruction and the liberation of cyanogen chloride. Free Radical Biology and Medicine, 2012, 52, 616-625.	2.9	40
39	Melatonin attenuates hypochlorous acidâ€mediated heme destruction, free iron release, and protein aggregation in hemoglobin. Journal of Pineal Research, 2012, 53, 198-205.	7.4	21
40	Modulation of redox signaling promotes apoptosis in epithelial ovarian cancer cells. Gynecologic Oncology, 2011, 122, 418-423.	1.4	36
41	Mechanism of hypochlorous acid-mediated heme destruction and free iron release. Free Radical Biology and Medicine, 2011, 51, 364-373.	2.9	38
42	Reaction of hemoglobin with HOCl: Mechanism of heme destruction and free iron release. Free Radical Biology and Medicine, 2011, 51, 374-386.	2.9	68
43	Melatonin Can Mediate Its Vascular Protective Effect by Modulating Free Iron Level by Inhibiting Hypochlorous Acidâ€“Mediated Hemoprotein Heme Destruction. Hypertension, 2011, 57, e22; author reply e23.	2.7	11
44	Dichloroacetate Induces Apoptosis of Epithelial Ovarian Cancer Cells Through a Mechanism Involving Modulation of Oxidative Stress. Reproductive Sciences, 2011, 18, 1253-1261.	2.5	44
45	Hypochlorous Acid-Induced Heme Degradation from Lactoperoxidase as a Novel Mechanism of Free Iron Release and Tissue Injury in Inflammatory Diseases. PLoS ONE, 2011, 6, e27641.	2.5	34
46	Exposure to polychlorinated biphenyls enhances lipid peroxidation in human normal peritoneal and adhesion fibroblasts: A potential role for myeloperoxidase. Free Radical Biology and Medicine, 2010, 48, 845-850.	2.9	11
47	Potent antioxidative activity of lycopene: A potential role in scavenging hypochlorous acid. Free Radical Biology and Medicine, 2010, 49, 205-213.	2.9	82
48	Myeloperoxidase serves as a redox switch that regulates apoptosis in epithelial ovarian cancer. Gynecologic Oncology, 2010, 116, 276-281.	1.4	51
49	Potent antioxidative activity of lycopene: a potential role in scavenging hypochlorous acid. FASEB Journal, 2010, 24, 92.1.	0.5	0
50	Myeloperoxidase interaction with peroxynitrite: chloride deficiency and heme depletion. Free Radical Biology and Medicine, 2009, 47, 431-439.	2.9	25
51	Analysis of the mechanism by which tryptophan analogs inhibit human myeloperoxidase. Free Radical Biology and Medicine, 2009, 47, 1005-1013.	2.9	29
52	<i>S</i>â€nitrosylation of caspaseâ€3 is the mechanism by which adhesion fibroblasts manifest lower apoptosis. Wound Repair and Regeneration, 2009, 17, 224-229.	3.0	31
53	The role of myeloperoxidase in the pathogenesis of postoperative adhesions. Wound Repair and Regeneration, 2009, 17, 531-539.	3.0	17
54	Hypoxia regulates iNOS expression in human normal peritoneal and adhesion fibroblasts through nuclear factor kappa B activation mechanism. Fertility and Sterility, 2009, 91, 616-621.	1.0	19

#	Article	IF	Citations
55	Analysis of the mechanism by which melatonin inhibits human eosinophil peroxidase. British Journal of Pharmacology, 2008, 154, 1308-1317.	5.4	26
56	Reactive oxygen species and oocyte aging: Role of superoxide, hydrogen peroxide, and hypochlorous acid. Free Radical Biology and Medicine, 2008, 44, 1295-1304.	2.9	186
57	Potential role of tryptophan and chloride in the inhibition of human myeloperoxidase. Free Radical Biology and Medicine, 2008, 44, 1570-1577.	2.9	26
58	Nitric oxide extends the oocyte temporal window for optimal fertilization. Free Radical Biology and Medicine, 2008, 45, 453-459.	2.9	38
59	Hypoxia-generated superoxide induces the development of the adhesion phenotype. Free Radical Biology and Medicine, 2008, 45, 530-536.	2.9	52
60	Melatonin Is a Potent Inhibitor for Myeloperoxidase. Biochemistry, 2008, 47, 2668-2677.	2.5	92
61	Nitric oxide synthase isoforms expression in fibroblasts isolated from human normal peritoneum and adhesion tissues. Fertility and Sterility, 2008, 90, 769-774.	1.0	23
62	The Potential Role of Nitric Oxide in Substrate Switching in Eosinophil Peroxidaseâ€. Biochemistry, 2007, 46, 406-415.	2.5	10
63	Kinetic Evidence Supports the Existence of Two Halide Binding Sites that Have a Distinct Impact on the Heme Iron Microenvironment in Myeloperoxidaseâ€. Biochemistry, 2007, 46, 398-405.	2.5	25
64	Myeloperoxidase Metabolizes Thiocyanate in a Reaction Driven by Nitric Oxide. Biochemistry, 2006, 45, 1255-1262.	2.5	25
65	Activation of the cGMP Signaling Pathway Is Essential in Delaying Oocyte Aging in Diabetes Mellitusâ€,â€¡. Biochemistry, 2006, 45, 11366-11378.	2.5	37
66	Thiocyanate Modulates the Catalytic Activity of Mammalian Peroxidases. Journal of Biological Chemistry, 2005, 280, 26129-26136.	3.4	51
67	Measurement of oxygen and nitric oxide levels in vitro and in vivo: Relationship to postoperative adhesions. Fertility and Sterility, 2005, 84, 235-238.	1.0	10
68	Nitric Oxide Delays Oocyte Aging. Biochemistry, 2005, 44, 11361-11368.	2.5	77
69	High Dissociation Rate Constant of Ferrous-Dioxy Complex Linked to the Catalase-like Activity in Lactoperoxidase. Journal of Biological Chemistry, 2004, 279, 39465-39470.	3.4	16
70	A Novel Multistep Mechanism for Oxygen Binding to Ferrous Hemoproteins:Â Rapid Kinetic Analysis of Ferrous-Dioxy Myeloperoxidase (Compound III) Formationâ€. Biochemistry, 2004, 43, 11589-11595.	2.5	15
71	Myeloperoxidase up-regulates the catalytic activity of inducible nitric oxide synthase by preventing nitric oxide feedback inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14766-14771.	7.1	75
72	A Tale of Two Controversies. Journal of Biological Chemistry, 2002, 277, 17415-17427.	3.4	452

#	Article	IF	Citations
73	Interrogation of Heme Pocket Environment of Mammalian Peroxidases with Diatomic Ligands. Biochemistry, 2001, 40, 10747-10755.	2.5	44
74	Regulation of Inducible Nitric Oxide Synthase by Self-Generated NOâ€. Biochemistry, 2001, 40, 6876-6881.	2.5	71
75	Peroxidases Inhibit Nitric Oxide (NO) Dependent Bronchodilation:Â Development of a Model Describing NOâˆ'Peroxidase Interactionsâ€. Biochemistry, 2001, 40, 11866-11875.	2.5	75
76	Nitric Oxide Is a Physiological Substrate for Mammalian Peroxidases. Journal of Biological Chemistry, 2000, 275, 37524-37532.	3.4	342
77	Myeloperoxidase-generated oxidants and atherosclerosis. Free Radical Biology and Medicine, 2000, 28, 1717-1725.	2.9	541
78	Nitric Oxide Modulates the Catalytic Activity of Myeloperoxidase. Journal of Biological Chemistry, 2000, 275, 5425-5430.	3.4	165
79	Electron Transfer, Oxygen Binding, and Nitric Oxide Feedback Inhibition in Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 2000, 275, 17349-17357.	3.4	103
80	Formation of Nitric Oxideâ€"Derived Oxidants by Myeloperoxidase in Monocytes. Circulation Research, 1999, 85, 950-958.	4.5	214
81	Role of Reductase Domain Cluster 1 Acidic Residues in Neuronal Nitric-oxide Synthase. Journal of Biological Chemistry, 1999, 274, 22313-22320.	3.4	76
82	Stopped-Flow Analysis of Substrate Binding to Neuronal Nitric Oxide Synthaseâ€. Biochemistry, 1999, 38, 12446-12451.	2.5	28
83	Stopped-Flow Analysis of CO and NO Binding to Inducible Nitric Oxide Synthase. Biochemistry, 1998, 37, 3777-3786.	2.5	120
84	Neuronal Nitric-oxide Synthase Interaction with Calmodulin-Troponin C Chimeras. Journal of Biological Chemistry, 1998, 273, 5451-5454.	3.4	62
85	The Ferrous-dioxy Complex of Neuronal Nitric Oxide Synthase. Journal of Biological Chemistry, 1997, 272, 17349-17353.	3.4	136
86	Analysis of Neuronal NO Synthase under Single-Turnover Conditions:Â Conversion ofNï‰-Hydroxyarginine to Nitric Oxide and Citrullineâ€. Biochemistry, 1997, 36, 10811-10816.	2.5	70
87	EPR Spectroscopic Characterization of Neuronal NO Synthase. Biochemistry, 1996, 35, 2804-2810.	2.5	39
88	High-Level Expression of Mouse Inducible Nitric Oxide Synthase inEscherichia coliRequires Coexpression with Calmodulin. Biochemical and Biophysical Research Communications, 1996, 222, 439-444.	2.1	98
89	Interaction of Bacterial Luciferase with 8-Substituted Flavin Mononucleotide Derivatives. Journal of Biological Chemistry, 1996, 271, 104-110.	3.4	21
90	Nitric Oxide Binding to the Heme of Neuronal Nitric-oxide Synthase Links Its Activity to Changes in Oxygen Tension. Journal of Biological Chemistry, 1996, 271, 32515-32518.	3.4	118

#	Article	IF	Citations
91	Characterization of the Reductase Domain of Rat Neuronal Nitric Oxide Synthase Generated in the Methylotrophic Yeast Pichia pastoris. Journal of Biological Chemistry, 1996, 271, 20594-20602.	3.4	132
92	Heme Iron Reduction and Catalysis by a Nitric Oxide Synthase Heterodimer Containing One Reductase and Two Oxygenase Domains. Journal of Biological Chemistry, 1996, 271, 7309-7312.	3.4	83
93	Control of Electron Transfer in Neuronal Nitric Oxide Synthase by Calmodulin, Substrate, Substrate Analogs, and Nitric Oxide. Advances in Pharmacology, 1995, 34, 207-213.	2.0	15
94	Neuronal Nitric Oxide Synthase Self-inactivates by Forming a Ferrous-Nitrosyl Complex during Aerobic Catalysis. Journal of Biological Chemistry, 1995, 270, 22997-23006.	3.4	181
95	Subunit Dissociation and Unfolding of Macrophage NO Synthase: Relationship between Enzyme Structure, Prosthetic Group Binding, and Catalytic Function. Biochemistry, 1995, 34, 11167-11175.	2.5	108
96	Mechanism-based inactivation of a bacterial phosphotriesterase by an alkynyl phosphate ester. Journal of the American Chemical Society, 1991, 113, 8560-8561.	13.7	28