

Hosni M Hassan

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.

95
papers

4,393
citations

33
h-index

65
g-index

99
ext. papers

4,842
ext. citations

4.3
avg, IF

5.3
L-index

#	Paper	IF	Citations
95	Inception of redox cycling and its impact in biology and medicine.. <i>Archives of Biochemistry and Biophysics</i> , 2022 , 109256	4.1	
94	Role of the Mn-Catalase in Aerobic Growth of <i>Lactobacillus plantarum</i> ATCC 14431. <i>Applied Microbiology</i> , 2021 , 1, 615-625		1
93	Attenuated Serovar Typhimurium, Strain NC983, Is Immunogenic, and Protective against Virulent Typhimurium Challenges in Mice. <i>Vaccines</i> , 2020 , 8,	5.3	1
92	An Attenuated <i>Salmonella enterica</i> Serovar Typhimurium Strain and Galacto-Oligosaccharides Accelerate Clearance of <i>Salmonella</i> Infections in Poultry through Modifications to the Gut Microbiome. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	34
91	A comparison of sequencing platforms and bioinformatics pipelines for compositional analysis of the gut microbiome. <i>BMC Microbiology</i> , 2017 , 17, 194	4.5	124
90	Impact of Dietary Galacto-Oligosaccharide (GOS) on Chicken Gut Microbiota, Mucosal Gene Expression, and Colonization. <i>Frontiers in Veterinary Science</i> , 2017 , 4, 192	3.1	14
89	Interplay Between O ₂ and Iron in Gene Expression: Environmental Sensing by FNR, ArcA, and Fur in Bacteria 2016 , 1079-1089		1
88	Complete Genome Sequence of NC983, a Live Attenuated Strain of <i>Salmonella enterica</i> Serovar Typhimurium. <i>Genome Announcements</i> , 2016 , 4,		2
87	Development of the Chick Microbiome: How Early Exposure Influences Future Microbial Diversity. <i>Frontiers in Veterinary Science</i> , 2016 , 3, 2	3.1	149
86	Draft Genome Sequences of <i>Lactobacillus animalis</i> Strain P38 and <i>Lactobacillus reuteri</i> Strain P43 Isolated from Chicken Cecum. <i>Genome Announcements</i> , 2016 , 4,		2
85	Draft Genome Sequence of <i>Lactobacillus crispatus</i> C25 Isolated from Chicken Cecum. <i>Genome Announcements</i> , 2016 , 4,		3
84	Poultry body temperature contributes to invasion control through reduced expression of <i>Salmonella</i> pathogenicity island 1 genes in <i>Salmonella enterica</i> serovars Typhimurium and Enteritidis. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 8192-201	4.8	23
83	Mitochondrial DNA Fragmentation as a Molecular Tool to Monitor Thermal Processing of Plant-Derived, Low-Acid Foods, and Biomaterials. <i>Journal of Food Science</i> , 2015 , 80, M1804-14	3.4	5
82	Mitochondrial DNA Fragmentation to Monitor Processing Parameters in High Acid, Plant-Derived Foods. <i>Journal of Food Science</i> , 2015 , 80, M2892-8	3.4	2
81	Ferric uptake regulator-dependent antinitrosative defenses in <i>Salmonella enterica</i> serovar Typhimurium pathogenesis. <i>Infection and Immunity</i> , 2014 , 82, 333-40	3.7	13
80	Pyruvate protects pathogenic spirochetes from H ₂ O ₂ killing. <i>PLoS ONE</i> , 2014 , 9, e84625	3.7	28
79	Transcriptional regulation by Ferric Uptake Regulator (Fur) in pathogenic bacteria. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013 , 3, 59	5.9	234

78	Direct fed microbial supplementation repartitions host energy to the immune system. <i>Journal of Animal Science</i> , 2012 , 90, 2639-51	0.7	18
77	The Fur regulon in anaerobically grown <i>Salmonella enterica</i> sv. Typhimurium: identification of new Fur targets. <i>BMC Microbiology</i> , 2011 , 11, 236	4.5	55
76	Analysis of the ArcA regulon in anaerobically grown <i>Salmonella enterica</i> sv. Typhimurium. <i>BMC Microbiology</i> , 2011 , 11, 58	4.5	52
75	Fur negatively regulates hns and is required for the expression of HilA and virulence in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Bacteriology</i> , 2011 , 193, 497-505	3.5	76
74	Role of antioxidant enzymes in bacterial resistance to organic acids. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2747-53	4.8	58
73	Evolution of the probiotic concept from conception to validation and acceptance in medical science. <i>Advances in Applied Microbiology</i> , 2010 , 72, 1-41	4.9	12
72	Effects of pH, dissolved oxygen, and ionic strength on the survival of <i>Escherichia coli</i> O157:H7 in organic acid solutions. <i>Journal of Food Protection</i> , 2008 , 71, 2404-9	2.5	18
71	Antimicrobial properties of milkfat globule membrane fractions. <i>Journal of Food Protection</i> , 2008 , 71, 126-33	2.5	34
70	FNR is a global regulator of virulence and anaerobic metabolism in <i>Salmonella enterica</i> serovar Typhimurium (ATCC 14028s). <i>Journal of Bacteriology</i> , 2007 , 189, 2262-73	3.5	108
69	Anti-inflammatory properties of <i>Lactobacillus gasseri</i> expressing manganese superoxide dismutase using the interleukin 10-deficient mouse model of colitis. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 293, G729-38	5.1	141
68	Transcriptional and functional analysis of oxalyl-coenzyme A (CoA) decarboxylase and formyl-CoA transferase genes from <i>Lactobacillus acidophilus</i> . <i>Applied and Environmental Microbiology</i> , 2006 , 72, 1894-8	4.8	66
67	Marker-free chromosomal integration of the manganese superoxide dismutase gene (sodA) from <i>Streptococcus thermophilus</i> into <i>Lactobacillus gasseri</i> . <i>FEMS Microbiology Letters</i> , 2005 , 246, 91-101	2.9	27
66	Expression of a heterologous manganese superoxide dismutase gene in intestinal lactobacilli provides protection against hydrogen peroxide toxicity. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4702-10	4.8	87
65	Role of catalase and oxyR in the viable but nonculturable state of <i>Vibrio vulnificus</i> . <i>FEMS Microbiology Ecology</i> , 2004 , 50, 133-42	4.3	111
64	RpoS-dependent stress response and exoenzyme production in <i>Vibrio vulnificus</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6114-20	4.8	63
63	Effect of malic acid on the growth kinetics of <i>Lactobacillus plantarum</i> . <i>Applied Microbiology and Biotechnology</i> , 2003 , 63, 207-11	5.7	21
62	Molecular characterization and functional analysis of the manganese-containing superoxide dismutase gene (sodA) from <i>Streptococcus thermophilus</i> AO54. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 420, 103-13	4.1	17
61	<i>Azotobacter chroococcum</i> does not contain sodA or its gene product Mn-superoxide dismutase. <i>Canadian Journal of Microbiology</i> , 2002 , 48, 183-7	3.2	3

60	Characterization of the iron superoxide dismutase gene of <i>Azotobacter vinelandii</i> : sodB may be essential for viability. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 63-71	3.2	7
59	Characterization of the iron superoxide dismutase gene of <i>Azotobacter vinelandii</i> : sodB may be essential for viability. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 63-71	3.2	2
58	Mechanism of regulation of 8-hydroxyguanine endonuclease by oxidative stress: roles of FNR, ArcA, and Fur. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 1193-201	7.8	29
57	Enhancement of the antibacterial activity of ampicillin by liposome encapsulation. <i>Drug Delivery</i> , 1996 , 3, 273-278	7	3
56	Binding of integration host factor (IHF) to the <i>Escherichia coli</i> sodA gene and its role in the regulation of a sodA-lacZ fusion gene. <i>Molecular Genetics and Genomics</i> , 1995 , 246, 228-35		5
55	Stability of <i>Escherichia coli</i> sodA mRNA and identification of the transcriptional start site(s) under different environmental and oxidative stresses. <i>Free Radical Biology and Medicine</i> , 1994 , 17, 209-13	7.8	1
54	Roles of manganese and iron in the regulation of the biosynthesis of manganese-superoxide dismutase in <i>Escherichia coli</i> . <i>FEMS Microbiology Reviews</i> , 1994 , 14, 315-23	15.1	46
53	The effects of fur on the transcriptional and post-transcriptional regulation of MnSOD gene (sodA) in <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 1994 , 309, 288-92	4.1	13
52	Modeling the specific growth rate of <i>Lactobacillus plantarum</i> in cucumber extract. <i>Applied Microbiology and Biotechnology</i> , 1993 , 40, 143	5.7	45
51	Characterization of cis-acting regulatory mutations causing anaerobic expression of the sodA gene in <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 1993 , 302, 372-9	4.1	6
50	Cloning and expression of the manganese superoxide dismutase gene of <i>Escherichia coli</i> in <i>Lactococcus lactis</i> and <i>Lactobacillus gasseri</i> . <i>Molecular Genetics and Genomics</i> , 1993 , 239, 33-40		19
49	Transcriptional activation of Mn-superoxide dismutase gene (sodA) of <i>Escherichia coli</i> by MnCl ₂ . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1993 , 1216, 186-90		9
48	Modeling the cucumber fermentation: Growth of <i>Lactobacillus plantarum</i> . <i>Journal of Industrial Microbiology</i> , 1993 , 12, 341-345		8
47	Regulatory roles of Fnr, Fur, and Arc in expression of manganese-containing superoxide dismutase in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 3217-21	11.5	92
46	Characterization of trans-acting regulatory elements affecting the expression of Mn-superoxide dismutase (sodA) in <i>Escherichia coli</i> . <i>Current Microbiology</i> , 1992 , 25, 135-141	2.4	8
45	Transcriptional regulation of Mn-superoxide dismutase gene (sodA) of <i>Escherichia coli</i> is stimulated by DNA gyrase inhibitors. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 299, 185-92	4.1	9
44	Use of continuous culture for internal pH determination of lactic acid bacteria. <i>Food Microbiology</i> , 1991 , 8, 137-142	6	5
43	Use of site-directed mutagenesis to identify an upstream regulatory sequence of sodA gene of <i>Escherichia coli</i> K-12. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 2618-22	11.5	21

42	Acid Tolerance of <i>Leuconostoc mesenteroides</i> and <i>Lactobacillus plantarum</i> . <i>Applied and Environmental Microbiology</i> , 1990 , 56, 2120-4	4.8	181
41	Effect of temperature and http on the biosynthesis of superoxide dismutase in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1989 , 58, 133-137	2.9	5
40	An electron spin resonance study of oxyradical generation in superoxide dismutase- and catalase-deficient mutants of <i>Escherichia coli</i> K-12. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 271, 323-31	4.1	9
39	Microbial superoxide dismutases. <i>Advances in Genetics</i> , 1989 , 26, 65-97	3.3	81
38	Attenuation of antioxidant enzymes in response to oxidative stresses. <i>Forum of Nutrition</i> , 1989 , 43, 278-87		
37	Stability and expression of a plasmid-containing killer toxin cDNA in batch and chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 1988 , 31, 783-9	4.9	13
36	An assay for the detection of superoxide dismutase in individual <i>Escherichia coli</i> colonies. <i>Analytical Biochemistry</i> , 1988 , 168, 455-61	3.1	6
35	Response of hydroperoxidase and superoxide dismutase deficient mutants of <i>Escherichia coli</i> K-12 to oxidative stress. <i>Canadian Journal of Microbiology</i> , 1988 , 34, 1171-6	3.2	35
34	Antibacterial activity of plantaricin SIK-83, a bacteriocin produced by <i>Lactobacillus plantarum</i> . <i>Biochimie</i> , 1988 , 70, 381-90	4.6	66
33	Role of oxyradicals in the inactivation of catalase by ozone. <i>Free Radical Biology and Medicine</i> , 1988 , 5, 305-12	7.8	29
32	Biosynthesis and regulation of superoxide dismutases. <i>Free Radical Biology and Medicine</i> , 1988 , 5, 377-85	7.8	134
31	Transcriptional regulation of <i>katE</i> in <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1988 , 170, 4286-92	3.5	111
30	Isolation and characterization of respiratory-deficient mutants of <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1988 , 170, 78-83	3.5	6
29	Induction and inactivation of catalase and superoxide dismutase of <i>Escherichia coli</i> by ozone. <i>Archives of Biochemistry and Biophysics</i> , 1987 , 257, 464-71	4.1	63
28	Biosynthesis of superoxide dismutase and catalase in chemostat culture of <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1987 , 26, 531-536	5.7	19
27	Effect of oxygen tension on stability and expression of a killer toxin chimeric plasmid in a chemostat culture of <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1987 , 27, 72	5.7	17
26	Biosynthesis of superoxide dismutase in eight prokaryotes: Effects of oxygen, paraquat and an iron chelator. <i>FEMS Microbiology Letters</i> , 1987 , 42, 33-38	2.9	16
25	Biosynthesis of superoxide dismutase and catalase in <i>Saccharomyces cerevisiae</i> : effects of oxygen and cytochrome c deficiency. <i>Journal of Industrial Microbiology</i> , 1986 , 1, 187-193		11

24	Effects of cysteine on growth, protease production, and catalase activity of <i>Pseudomonas fluorescens</i> . <i>Applied and Environmental Microbiology</i> , 1986 , 51, 418-21	4.8	8
23	Isolation of paraquat-resistant mutants of <i>Escherichia coli</i> : lack of correlation between resistance and the activity of superoxide dismutase. <i>FEMS Microbiology Letters</i> , 1985 , 28, 93-97	2.9	8
22	Optimization of the hide powder azure assay for quantitating the protease of <i>Pseudomonas fluorescens</i> . <i>Journal of Microbiological Methods</i> , 1985 , 4, 59-66	2.8	6
21	Biosynthesis of superoxide dismutase in <i>Saccharomyces cerevisiae</i> : effects of paraquat and copper. <i>Journal of Free Radicals in Biology & Medicine</i> , 1985 , 1, 319-25		25
20	Superoxide dismutase, catalase and peroxidase in four strains of <i>Neisseria meningitidis</i> of different virulence. <i>FEMS Microbiology Letters</i> , 1984 , 25, 71-74	2.9	4
19	Induction of the manganese-containing superoxide dismutase in <i>Escherichia coli</i> by nalidixic acid and by iron chelators. <i>FEMS Microbiology Letters</i> , 1984 , 25, 233-236	2.9	23
18	Exacerbation of superoxide radical formation by paraquat. <i>Methods in Enzymology</i> , 1984 , 105, 523-32	1.7	49
17	Determination of the mutagenicity of oxygen free radicals using microbial systems. <i>Methods in Enzymology</i> , 1984 , 105, 254-63	1.7	5
16	Determination of microbial damage caused by oxygen free radicals, and the protective role of superoxide dismutase. <i>Methods in Enzymology</i> , 1984 , 105, 404-12	1.7	25
15	Mutagenicity of oxygen free radicals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982 , 79, 2855-9	11.5	209
14	Superoxide dismutase protects against paraquat-mediated dioxygen toxicity and mutagenicity: studies in <i>Salmonella typhimurium</i> . <i>Canadian Journal of Physiology and Pharmacology</i> , 1982 , 60, 1367-73	2.4	29
13	Biosynthesis of oxygen-detoxifying enzymes in <i>Bdellovibrio stolpii</i> . <i>Journal of Bacteriology</i> , 1982 , 152, 792-6	3.5	7
12	Inhibitors of superoxide dismutases: a cautionary tale. <i>Archives of Biochemistry and Biophysics</i> , 1980 , 199, 349-54	4.1	23
11	Mechanism of the antibiotic action pyocyanine. <i>Journal of Bacteriology</i> , 1980 , 141, 156-63	3.5	254
10	Intracellular production of superoxide radical and of hydrogen peroxide by redox active compounds. <i>Archives of Biochemistry and Biophysics</i> , 1979 , 196, 385-95	4.1	525
9	Paraquat and the exacerbation of oxygen toxicity. <i>Trends in Biochemical Sciences</i> , 1979 , 4, 113-115	10.3	37
8	Regulation and role of superoxide dismutase. <i>Biochemical Society Transactions</i> , 1978 , 6, 356-61	5.1	7
7	Enzymatic defenses against the toxicity of oxygen and of streptonigrin in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1977 , 129, 1574-83	3.5	234

6	Biochemical and physiological properties of alkaline phosphatases in five isolates of marine bacteria. <i>Journal of Bacteriology</i> , 1977 , 129, 1607-12	3.5	18
5	Physiological function of superoxide dismutase in glucose-limited chemostat cultures of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1977 , 130, 805-11	3.5	57
4	Regulation of superoxide dismutase synthesis in <i>Escherichia coli</i> : glucose effect. <i>Journal of Bacteriology</i> , 1977 , 132, 505-10	3.5	79
3	Diminution of outer membrane permeability by Mg ²⁺ in a marine pseudomonad. <i>Journal of Bacteriology</i> , 1976 , 125, 910-5	3.5	3
2	The resistance of <i>Pseudomonas aeruginosa</i> to chloramphenicol. <i>Canadian Journal of Microbiology</i> , 1975 , 21, 1185-91	3.2	8
1	Kinetics of Na ⁺ -dependent K ⁺ ion transport in a marine pseudomonad. <i>Journal of Bacteriology</i> , 1975 , 121, 160-4	3.5	16