

Hosni M Hassan

List of Publications by Citations

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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 | 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 |
| 94 | Mechanism of the antibiotic action pyocyanine. <i>Journal of Bacteriology</i> , 1980 , 141, 156-63 | 3.5 | 254 |
| 93 | Transcriptional regulation by Ferric Uptake Regulator (Fur) in pathogenic bacteria. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013 , 3, 59 | 5.9 | 234 |
| 92 | Enzymatic defenses against the toxicity of oxygen and of streptonigrin in Escherichia coli. <i>Journal of Bacteriology</i> , 1977 , 129, 1574-83 | 3.5 | 234 |
| 91 | 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 |
| 90 | Acid Tolerance of Leuconostoc mesenteroides and Lactobacillus plantarum. <i>Applied and Environmental Microbiology</i> , 1990 , 56, 2120-4 | 4.8 | 181 |
| 89 | Development of the Chick Microbiome: How Early Exposure Influences Future Microbial Diversity. <i>Frontiers in Veterinary Science</i> , 2016 , 3, 2 | 3.1 | 149 |
| 88 | Anti-inflammatory properties of Lactobacillus gasseri 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 |
| 87 | Biosynthesis and regulation of superoxide dismutases. <i>Free Radical Biology and Medicine</i> , 1988 , 5, 377-85 | 7.8 | 134 |
| 86 | 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 |
| 85 | Role of catalase and oxyR in the viable but nonculturable state of Vibrio vulnificus. <i>FEMS Microbiology Ecology</i> , 2004 , 50, 133-42 | 4.3 | 111 |
| 84 | Transcriptional regulation of katE in Escherichia coli K-12. <i>Journal of Bacteriology</i> , 1988 , 170, 4286-92 | 3.5 | 111 |
| 83 | FNR is a global regulator of virulence and anaerobic metabolism in Salmonella enterica serovar Typhimurium (ATCC 14028s). <i>Journal of Bacteriology</i> , 2007 , 189, 2262-73 | 3.5 | 108 |
| 82 | Regulatory roles of Fnr, Fur, and Arc in expression of manganese-containing superoxide dismutase in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 3217-21 | 11.5 | 92 |
| 81 | 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 |
| 80 | Microbial superoxide dismutases. <i>Advances in Genetics</i> , 1989 , 26, 65-97 | 3.3 | 81 |
| 79 | Regulation of superoxide dismutase synthesis in Escherichia coli: glucose effect. <i>Journal of Bacteriology</i> , 1977 , 132, 505-10 | 3.5 | 79 |

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|----|---|------|----|
| 78 | Fur negatively regulates hns and is required for the expression of HilA and virulence in Salmonella enterica serovar Typhimurium. <i>Journal of Bacteriology</i> , 2011 , 193, 497-505 | 3.5 | 76 |
| 77 | Transcriptional and functional analysis of oxalyl-coenzyme A (CoA) decarboxylase and formyl-CoA transferase genes from Lactobacillus acidophilus. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 1891-8 | 4.8 | 66 |
| 76 | Antibacterial activity of plantaricin SIK-83, a bacteriocin produced by Lactobacillus plantarum. <i>Biochimie</i> , 1988 , 70, 381-90 | 4.6 | 66 |
| 75 | RpoS-dependent stress response and exoenzyme production in Vibrio vulnificus. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6114-20 | 4.8 | 63 |
| 74 | Induction and inactivation of catalase and superoxide dismutase of Escherichia coli by ozone. <i>Archives of Biochemistry and Biophysics</i> , 1987 , 257, 464-71 | 4.1 | 63 |
| 73 | Role of antioxidant enzymes in bacterial resistance to organic acids. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2747-53 | 4.8 | 58 |
| 72 | Physiological function of superoxide dismutase in glucose-limited chemostat cultures of Escherichia coli. <i>Journal of Bacteriology</i> , 1977 , 130, 805-11 | 3.5 | 57 |
| 71 | The Fur regulon in anaerobically grown Salmonella enterica sv. Typhimurium: identification of new Fur targets. <i>BMC Microbiology</i> , 2011 , 11, 236 | 4.5 | 55 |
| 70 | Analysis of the ArcA regulon in anaerobically grown Salmonella enterica sv. Typhimurium. <i>BMC Microbiology</i> , 2011 , 11, 58 | 4.5 | 52 |
| 69 | Exacerbation of superoxide radical formation by paraquat. <i>Methods in Enzymology</i> , 1984 , 105, 523-32 | 1.7 | 49 |
| 68 | Roles of manganese and iron in the regulation of the biosynthesis of manganese-superoxide dismutase in Escherichia coli. <i>FEMS Microbiology Reviews</i> , 1994 , 14, 315-23 | 15.1 | 46 |
| 67 | Modeling the specific growth rate of Lactobacillus plantarum in cucumber extract. <i>Applied Microbiology and Biotechnology</i> , 1993 , 40, 143 | 5.7 | 45 |
| 66 | Paraquat and the exacerbation of oxygen toxicity. <i>Trends in Biochemical Sciences</i> , 1979 , 4, 113-115 | 10.3 | 37 |
| 65 | Response of hydroperoxidase and superoxide dismutase deficient mutants of Escherichia coli K-12 to oxidative stress. <i>Canadian Journal of Microbiology</i> , 1988 , 34, 1171-6 | 3.2 | 35 |
| 64 | An Attenuated Salmonella enterica Serovar Typhimurium Strain and Galacto-Oligosaccharides Accelerate Clearance of Salmonella Infections in Poultry through Modifications to the Gut Microbiome. <i>Applied and Environmental Microbiology</i> , 2018 , 84, | 4.8 | 34 |
| 63 | Antimicrobial properties of milkfat globule membrane fractions. <i>Journal of Food Protection</i> , 2008 , 71, 126-33 | 2.5 | 34 |
| 62 | 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 |
| 61 | Role of oxyradicals in the inactivation of catalase by ozone. <i>Free Radical Biology and Medicine</i> , 1988 , 5, 305-12 | 7.8 | 29 |

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|----|--|------|----|
| 60 | 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 |
| 59 | Pyruvate protects pathogenic spirochetes from H ₂ O ₂ killing. <i>PLoS ONE</i> , 2014 , 9, e84625 | 3.7 | 28 |
| 58 | Marker-free chromosomal integration of the manganese superoxide dismutase gene (<i>sodA</i>) from <i>Streptococcus thermophilus</i> into <i>Lactobacillus gasseri</i> . <i>FEMS Microbiology Letters</i> , 2005 , 246, 91-101 | 2.9 | 27 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | Inhibitors of superoxide dismutases: a cautionary tale. <i>Archives of Biochemistry and Biophysics</i> , 1980 , 199, 349-54 | 4.1 | 23 |
| 52 | 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 |
| 51 | Use of site-directed mutagenesis to identify an upstream regulatory sequence of <i>sodA</i> 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 |
| 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 | 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 |
| 48 | Direct fed microbial supplementation repartitions host energy to the immune system. <i>Journal of Animal Science</i> , 2012 , 90, 2639-51 | 0.7 | 18 |
| 47 | 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 |
| 46 | 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 |
| 45 | Molecular characterization and functional analysis of the manganese-containing superoxide dismutase gene (<i>sodA</i>) from <i>Streptococcus thermophilus</i> AO54. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 420, 103-13 | 4.1 | 17 |
| 44 | 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 |
| 43 | 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 |

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|----|--|-----|----|
| 42 | Kinetics of Na ⁺ -dependent K ⁺ ion transport in a marine pseudomonad. <i>Journal of Bacteriology</i> , 1975 , 121, 160-4 | 3.5 | 16 |
| 41 | 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 |
| 40 | Ferric uptake regulator-dependent antinitrosative defenses in Salmonella enterica serovar Typhimurium pathogenesis. <i>Infection and Immunity</i> , 2014 , 82, 333-40 | 3.7 | 13 |
| 39 | The effects of fur on the transcriptional and post-transcriptional regulation of MnSOD gene (sodA) in Escherichia coli. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 309, 288-92 | 4.1 | 13 |
| 38 | Stability and expression of a plasmid-containing killer toxin cDNA in batch and chemostat cultures of saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 1988 , 31, 783-9 | 4.9 | 13 |
| 37 | 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 |
| 36 | Biosynthesis of superoxide dismutase and catalase in Saccharomyces cerevisiae: effects of oxygen and cytochrome c deficiency. <i>Journal of Industrial Microbiology</i> , 1986 , 1, 187-193 | | 11 |
| 35 | Transcriptional regulation of Mn-superoxide dismutase gene (sodA) of Escherichia coli is stimulated by DNA gyrase inhibitors. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 299, 185-92 | 4.1 | 9 |
| 34 | Transcriptional activation of Mn-superoxide dismutase gene (sodA) of Escherichia coli by MnCl ₂ . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1993 , 1216, 186-90 | | 9 |
| 33 | An electron spin resonance study of oxyradical generation in superoxide dismutase- and catalase-deficient mutants of Escherichia coli K-12. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 271, 323-31 | 4.1 | 9 |
| 32 | Characterization of trans-acting regulatory elements affecting the expression of Mn-superoxide dismutase (sodA) in Escherichia coli. <i>Current Microbiology</i> , 1992 , 25, 135-141 | 2.4 | 8 |
| 31 | Modeling the cucumber fermentation: Growth of Lactobacillus plantarum. <i>Journal of Industrial Microbiology</i> , 1993 , 12, 341-345 | | 8 |
| 30 | Isolation of paraquat-resistant mutants of Escherichia coli: lack of correlation between resistance and the activity of superoxide dismutase. <i>FEMS Microbiology Letters</i> , 1985 , 28, 93-97 | 2.9 | 8 |
| 29 | The resistance of Pseudomonas aeruginosa to chloramphenicol. <i>Canadian Journal of Microbiology</i> , 1975 , 21, 1185-91 | 3.2 | 8 |
| 28 | Effects of cysteine on growth, protease production, and catalase activity of Pseudomonas fluorescens. <i>Applied and Environmental Microbiology</i> , 1986 , 51, 418-21 | 4.8 | 8 |
| 27 | Characterization of the iron superoxide dismutase gene of Azotobacter vinelandii: sodB may be essential for viability. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 63-71 | 3.2 | 7 |
| 26 | Regulation and role of superoxide dismutase. <i>Biochemical Society Transactions</i> , 1978 , 6, 356-61 | 5.1 | 7 |
| 25 | Biosynthesis of oxygen-detoxifying enzymes in Bdellovibrio stolpii. <i>Journal of Bacteriology</i> , 1982 , 152, 792-6 | 3.5 | 7 |

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| 24 | Characterization of cis-acting regulatory mutations causing anaerobic expression of the sodA gene in Escherichia coli. <i>Archives of Biochemistry and Biophysics</i> , 1993 , 302, 372-9 | 4.1 | 6 |
| 23 | An assay for the detection of superoxide dismutase in individual Escherichia coli colonies. <i>Analytical Biochemistry</i> , 1988 , 168, 455-61 | 3.1 | 6 |
| 22 | Isolation and characterization of respiratory-deficient mutants of Escherichia coli K-12. <i>Journal of Bacteriology</i> , 1988 , 170, 78-83 | 3.5 | 6 |
| 21 | Optimization of the hide powder azure assay for quantitating the protease of Pseudomonas fluorescens. <i>Journal of Microbiological Methods</i> , 1985 , 4, 59-66 | 2.8 | 6 |
| 20 | 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 |
| 19 | Binding of integration host factor (IHF) to the Escherichia coli 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 |
| 18 | Use of continuous culture for internal pH determination of lactic acid bacteria. <i>Food Microbiology</i> , 1991 , 8, 137-142 | 6 | 5 |
| 17 | Effect of temperature and htpR on the biosynthesis of superoxide dismutase in Escherichia coli. <i>FEMS Microbiology Letters</i> , 1989 , 58, 133-137 | 2.9 | 5 |
| 16 | Determination of the mutagenicity of oxygen free radicals using microbial systems. <i>Methods in Enzymology</i> , 1984 , 105, 254-63 | 1.7 | 5 |
| 15 | Superoxide dismutase, catalase and peroxidase in four strains of Neisseria meningitidis of different virulence. <i>FEMS Microbiology Letters</i> , 1984 , 25, 71-74 | 2.9 | 4 |
| 14 | Azotobacter chroococcum does not contain sodA or its gene product Mn-superoxide dismutase. <i>Canadian Journal of Microbiology</i> , 2002 , 48, 183-7 | 3.2 | 3 |
| 13 | Enhancement of the antibacterial activity of ampicillin by liposome encapsulation. <i>Drug Delivery</i> , 1996 , 3, 273-278 | 7 | 3 |
| 12 | Diminution of outer membrane permeability by Mg ²⁺ in a marine pseudomonad. <i>Journal of Bacteriology</i> , 1976 , 125, 910-5 | 3.5 | 3 |
| 11 | Draft Genome Sequence of Lactobacillus crispatus C25 Isolated from Chicken Cecum. <i>Genome Announcements</i> , 2016 , 4, | | 3 |
| 10 | Complete Genome Sequence of NC983, a Live Attenuated Strain of Salmonella enterica Serovar Typhimurium. <i>Genome Announcements</i> , 2016 , 4, | | 2 |
| 9 | 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 |
| 8 | Characterization of the iron superoxide dismutase gene of Azotobacter vinelandii: sodB may be essential for viability. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 63-71 | 3.2 | 2 |
| 7 | Draft Genome Sequences of Lactobacillus animalis Strain P38 and Lactobacillus reuteri Strain P43 Isolated from Chicken Cecum. <i>Genome Announcements</i> , 2016 , 4, | | 2 |

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|---|---|-----|---|
| 6 | Interplay Between O ₂ and Iron in Gene Expression: Environmental Sensing by FNR, ArcA, and Fur in Bacteria 2016 , 1079-1089 | | 1 |
| 5 | Stability of Escherichia coli 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 |
| 4 | Attenuated Serovar Typhimurium, Strain NC983, Is Immunogenic, and Protective against Virulent Typhimurium Challenges in Mice. <i>Vaccines</i> , 2020 , 8, | 5.3 | 1 |
| 3 | Role of the Mn-Catalase in Aerobic Growth of Lactobacillus plantarum ATCC 14431. <i>Applied Microbiology</i> , 2021 , 1, 615-625 | | 1 |
| 2 | Attenuation of antioxidant enzymes in response to oxidative stresses. <i>Forum of Nutrition</i> , 1989 , 43, 278-87 | | |
| 1 | Inception of redox cycling and its impact in biology and medicine.. <i>Archives of Biochemistry and Biophysics</i> , 2022 , 109256 | 4.1 | |