Satish Raina

List of Publications by Year
in descending order

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53	5,054	126858	189801
papers	citations	33	50
		h-index	g-index

53	53	53	4495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of size scale of ZnO nanoparticles and microparticles on toxicity toward bacteria and osteoblast cancer cells. Journal of Materials Science: Materials in Medicine, 2009, 20, 235-241.	1.7	431
2	Characterization of the Escherichia coliÏ‚E Regulon. Journal of Biological Chemistry, 2001, 276, 20866-20875.	1.6	348
3	Modulation of the Escherichia coli Ïƒ E (RpoE) heatâ€shock transcriptionâ€factor activity by the RseA, RseB and RseC proteins. Molecular Microbiology, 1997, 24, 355-371.	1.2	327
4	Escherichia coli tol-pal Mutants Form Outer Membrane Vesicles. Journal of Bacteriology, 1998, 180, 4872-4878.	1.0	327
5	New components of protein folding in extracytoplasmic compartments ofEscherichia coliSurA, FkpA and Skp/OmpH. Molecular Microbiology, 1996, 21, 871-884.	1.2	319
6	The extracytoplasmic function sigma factors: role and regulation. Molecular Microbiology, 1998, 28, 1059-1066.	1.2	296
7	Structural and Functional Characterization of DsbC, a Protein Involved in Disulfide Bond Formation in Escherichia coli. Biochemistry, 1995, 34, 5075-5089.	1.2	252
8	Protein folding in the bacterial periplasm. Journal of Bacteriology, 1997, 179, 2465-2471.	1.0	248
9	Identification and characterization of the Escherichia coli gene dsbB, whose product is involved in the formation of disulfide bonds in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 7084-7088.	3.3	246
10	MAKING AND BREAKING DISULFIDE BONDS. Annual Review of Microbiology, 1997, 51, 179-202.	2.9	243
11	A new heat-shock gene, ppiD, encodes a peptidylâ€“prolyl isomerase required for folding of outer membrane proteins in Escherichia coli. EMBO Journal, 1998, 17, 3968-3980.	3.5	208
12	A new Escherichia coli gene, dsbG , encodes a periplasmic protein involved in disulphide bond formation, required for recycling DsbA/DsbB and DsbC redox proteins. Molecular Microbiology, 1997, 26, 121-132.	1.2	113
13	Signal transduction pathways in response to protein misfolding in the extracytoplasmic compartments of E.coli : role of two new phosphoprotein phosphatases PrpA and PrpB. EMBO Journal, 1997, 16, 1670-1685.	3.5	96
14	Phosphorylation-mediated regulation of heat shock response in Escherichia coli. Molecular Microbiology, 2003, 48, 269-285.	1.2	96
15	Crystal structures of the DsbG disulfide isomerase reveal an unstable disulfide. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8876-8881.	3.3	95
16	Assembly of Lipopolysaccharide in Escherichia coli Requires the Essential LapB Heat Shock Protein. Journal of Biological Chemistry, 2014, 289, 14829-14853.	1.6	90
17	Regulated Assembly of LPS, Its Structural Alterations and Cellular Response to LPS Defects. International Journal of Molecular Sciences, 2019, 20, 356.	1.8	85
18	Escherichia coli K-12 Suppressor-free Mutants Lacking Early Glycosyltransferases and Late Acyltransferases. Journal of Biological Chemistry, 2009, 284, 15369-15389.	1.6	80

#	Article	IF	Citations
19	Dehydration Converts DsbG Crystal Diffraction from Low to High Resolution. Structure, 2003, 11, 139-145.	1.6	77
20	Molecular Strategy for Survival at a Critical High Temperature in Eschierichia coli. PLoS ONE, 2011, 6, e20063.	1.1	73
21	Molecular and Structural Basis of Inner Core Lipopolysaccharide Alterations in Escherichia coli. Journal of Biological Chemistry, 2013, 288, 8111-8127.	1.6	66
22	A new Escherichia coli heat shock gene, htrC, whose product is essential for viability only at high temperatures. Journal of Bacteriology, 1990, 172, 3417-3426.	1.0	59
23	Protein misfolding in the cell envelope of Escherichia coli: new signaling pathways. Trends in Biochemical Sciences, 1997, 22, 59-63.	3.7	59
24	The Escherichia coli heat shock gene htpY: mutational analysis, cloning, sequencing, and transcriptional regulation. Journal of Bacteriology, 1993, 175, 2613-2624.	1.0	54
25	ThehtrMgene, whose product is essential forEscherichia coliviability only at elevated temperatures, is identical to therfaDgene. Nucleic Acids Research, 1991, 19, 3811-3819.	6.5	53
26	Contributions of Substrate Binding to the Catalytic Activity of DsbC. Biochemistry, 1998, 37, 783-791.	1.2	53
27	Molecular Basis of Lipopolysaccharide Heterogeneity in Escherichia coli. Journal of Biological Chemistry, 2011, 286, 42787-42807.	1.6	51
28	Identification of the Escherichia coli sohB gene, a multicopy suppressor of the HtrA (DegP) null phenotype. Journal of Bacteriology, 1991, 173, 5763-5770.	1.0	44
29	Regulated Control of the Assembly and Diversity of LPS by Noncoding sRNAs. BioMed Research International, 2015, 2015, 1-16.	0.9	44
30	Multiple Transcriptional Factors Regulate Transcription of the rpoE Gene in Escherichia coli under Different Growth Conditions and When the Lipopolysaccharide Biosynthesis Is Defective. Journal of Biological Chemistry, 2016, 291, 22999-23019.	1.6	44
31	Identification and transcriptional analysis of the Escherichia coli htrE operon which is homologous to pap and related pilin operons. Journal of Bacteriology, 1993, 175, 5009-5021.	1.0	43
32	Probing the Structural Role of an Î±Î² Loop of Maltose-binding Protein by Mutagenesis: Heat-shock Induction by Loop Variants of the Maltose-binding Protein that Form Periplasmic Inclusion Bodies. Journal of Molecular Biology, 1996, 262, 140-150.	2.0	42
33	EcfE, a new essential inner membrane protease: its role in the regulation of heat shock response in Escherichia coli. EMBO Journal, 2001, 20, 5908-5918.	3.5	40
34	Effects of mutations in genes for proteins involved in disulphide bond formation in the periplasm on the activities of anaerobically induced electron transfer chains in Escherichia coli K12. Molecular Genetics and Genomics, 1996, 253, 95-102.	2.4	34
35	Dissection of Ïƒ^Eâ€dependent cell lysis in Escherichia coli: roles of RpoE regulators RseA, RseB and periplasmic folding catalyst PpiD. Genes To Cells, 2009, 14, 885-899.	0.5	33
36	The functional properties of DsbG, a thiol-disulfide oxidoreductase from the periplasm ofEscherichia coli. FEBS Letters, 1998, 428, 255-258.	1.3	31

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37	Small regulatory bacterial RNAs regulating the envelope stress response. Biochemical Society Transactions, 2017, 45, 417-425.	1.6	31
38	Fatty Acyl Benzamido Antibacterials Based on Inhibition of DnaK-catalyzed Protein Folding*. Journal of Biological Chemistry, 2007, 282, 4437-4446.	1.6	29
39	Complex phenotypes of null mutations in the htr genes, whose products are essential for Escherichia coli growth at elevated temperatures. Research in Microbiology, 1991, 142, 289-294.	1.0	26
40	The Escherichia coli htrP gene product is essential for bacterial growth at high temperatures: mapping, cloning, sequencing, and transcriptional regulation of htrP. Journal of Bacteriology, 1991, 173, 5999-6008.	1.0	26
41	Molecular Basis of Essentiality of Early Critical Steps in the Lipopolysaccharide Biogenesis in Escherichia coli K-12: Requirement of MsbA, Cardiolipin, LpxL, LpxM and GcvB. International Journal of Molecular Sciences, 2021, 22, 5099.	1.8	21
42	Protein folding in the periplasm in the absence of primary oxidant DsbA: modulation of redox potential in periplasmic space via OmpL porin. EMBO Journal, 2000, 19, 5980-5988.	3.5	20
43	Regulation of the First Committed Step in Lipopolysaccharide Biosynthesis Catalyzed by LpxC Requires the Essential Protein LapC (YejM) and HslVU Protease. International Journal of Molecular Sciences, 2020, 21, 9088.	1.8	20
44	Interaction of the Conserved Region 4.2 of Ï‚E with the RseA Anti-sigma Factor. Journal of Biological Chemistry, 2002, 277, 27282-27287.	1.6	18
45	Heat Shock Regulation. , 1996, , 481-501.		18
46	Effects of mutations in genes for proteins involved in disulphide bond formation in the periplasm on the activities of anaerobically induced electron transfer chains in. Molecular Genetics and Genomics, 1996, 253, 95.	2.4	12
47	Checkpoints That Regulate Balanced Biosynthesis of Lipopolysaccharide and Its Essentiality in Escherichia coli. International Journal of Molecular Sciences, 2022, 23, 189.	1.8	11
48	Multicopy Suppressor Analysis of Strains Lacking Cytoplasmic Peptidyl-Prolyl cis/trans Isomerases Identifies Three New PPIase Activities in Escherichia coli That Includes the DksA Transcription Factor. International Journal of Molecular Sciences, 2020, 21, 5843.	1.8	8
49	Identification of Substrates of Cytoplasmic Peptidyl-Prolyl Cis/Trans Isomerases and Their Collective Essentiality in Escherichia Coli. International Journal of Molecular Sciences, 2020, 21, 4212.	1.8	7
50	Crystallization of DsbC, the disulfide bond isomerase of Escherichia coli. Acta Crystallographica Section D: Biological Crystallography, 1996, 52, 1219-1221.	2.5	5
51	Immunization with an anti-idiotypic antibody against the broadly lipopolysaccharide-reactive antibody WN1 222-5 inducesEscherichia coliR3-core-type specific antibodies in rabbits. Innate Immunity, 2012, 18, 279-293.	1.1	1
52	FUNCTION AND REGULATION OF THE UNIVERSALLY CONSERVED HEAT-SHOCK RESPONSE. , 1992, , 962-969.		1
53	Protein folding in the periplasm in the absence of primary oxidant DsbA: modulation of redox potential in periplasmic space via OmpL porin. EMBO Journal, 2004, 23, 3907-3907.	3.5	0