Kanak L Dikshit

List of Publications by Year
in descending order

47 papers	1,612 citations	331670 21 h-index	289244 40 g-index
48 all docs	48 docs citations	48 times ranked	1082 citing authors

#	Article	IF	Citations
1	Cloning, characterization and expression of the bacterial globin gene from Vitreoscilla in Escherichia coli. Gene, 1988, 70, 377-386.	2.2	160
2	Vitreoscilla Hemoglobin. Journal of Biological Chemistry, 2001, 276, 24781-24789.	3.4	135
3	Nitric oxide scavenging and detoxification by the Mycobacterium tuberculosis haemoglobin, HbN in Escherichia coli. Molecular Microbiology, 2002, 45, 1303-1314.	2.5	132
4	The bacterial hemoglobin from Vitreoscilla can support the aerobic growth of Escherichia coli lacking terminal oxidases. Archives of Biochemistry and Biophysics, 1992, 293, 241-245.	3.0	105
5	Recent applications of Vitreoscilla hemoglobin technology in bioproduct synthesis and bioremediation. Applied Microbiology and Biotechnology, 2015, 99, 1627-1636.	3.6	98
6	Study ofVitreoscillaglobin(vgb) gene expression and promoter activity inE. Colithrough transcriptional fusion. Nucleic Acids Research, 1990, 18, 4149-4155.	14.5	88
7	Chimeric Vitreoscilla Hemoglobin (VHb) Carrying a Flavoreductase Domain Relieves Nitrosative Stress in Escherichia coli : New Insight into the Functional Role of VHb. Applied and Environmental Microbiology, 2002, 68, 152-160.	3.1	68
8	Mycobacterium tuberculosis Hemoglobin HbO Associates with Membranes and Stimulates Cellular Respiration of RecombinantEscherichia coli. Journal of Biological Chemistry, 2002, 277, 15293-15302.	3.4	67
9	Role of Pre-A Motif in Nitric Oxide Scavenging by Truncated Hemoglobin, HbN, of Mycobacterium tuberculosis. Journal of Biological Chemistry, 2009, 284, 14457-14468.	3.4	59
10	Cloning and Expression of Vitreoscilla Hemoglobin Gene in Burkholderia sp. Strain DNT for Enhancement of 2,4â€Dinitrotoluene Degradation. Biotechnology Progress, 2000, 16, 26-30.	2.6	57
11	Function of the 90-loop (Thr90â€“Glu100) region of staphylokinase in plasminogen activation probed through site-directed mutagenesis and loop deletion. Biochemical Journal, 2002, 365, 379-389.	3.7	53
12	Site-Directed Mutagenesis of Bacterial Hemoglobin: The Role of Glutamine (E7) in Oxygen-Binding in the Distal Heme Pocket. Archives of Biochemistry and Biophysics, 1998, 349, 161-166.	3.0	44
13	Optimization of Immunogold Labeling TEM. Journal of Histochemistry and Cytochemistry, 2002, 50, 863-873.	2.5	41
14	Recent advances in understanding the structure, function, and biotechnological usefulness of the hemoglobin from the bacterium Vitreoscilla. Biotechnology Letters, 2011, 33, 1705-1714.	2.2	38
15	Lipoprotein LprI of Mycobacterium tuberculosis Acts as a Lysozyme Inhibitor. Journal of Biological Chemistry, 2016, 291, 2938-2953.	3.4	37
16	Oxygen binding and NO scavenging properties of truncated hemoglobin, HbN, ofMycobacterium smegmatis. FEBS Letters, 2006, 580, 4031-4041.	2.8	35
17	Truncated Hemoglobin, HbN, Is Post-translationally Modified in Mycobacterium tuberculosis and Modulates Host-Pathogen Interactions during Intracellular Infection. Journal of Biological Chemistry, 2013, 288, 29987-29999.	3.4	33
18	Responses ofMycobacterium tuberculosisHemoglobin Promoters to In Vitro and In Vivo Growth Conditions. Applied and Environmental Microbiology, 2008, 74, 3512-3522.	3.1	32

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19	THE BIOCHEMISTRY OF VITREOSCILLA HEMOGLOBIN. Computational and Structural Biotechnology Journal, 2012, 3, e201210002.	4.1	31
20	Redox-mediated interactions of VHb (Vitreoscilla haemoglobin) with OxyR: novel regulation of VHb biosynthesis under oxidative stress. Biochemical Journal, 2010, 426, 271-280.	3.7	28
21	Role of PheE15 Gate in Ligand Entry and Nitric Oxide Detoxification Function of Mycobacterium tuberculosis Truncated Hemoglobin N. PLoS ONE, 2012, 7, e49291.	2.5	26
22	Role of the N-terminal region of staphylokinase (SAK): evidence for the participation of the N-terminal region of SAK in the enzyme-substrate complex formation. FEBS Letters, 2000, 474, 151-158.	2.8	20
23	Charged nylon membrane substrate for convenient and versatile high resolution microscopic analysis of EscherichiaÂcoli & mammalian cells in suspension culture. Cytotechnology, 2006, 51, 111-117.	1.6	18
24	An Unconventional Hexacoordinated Flavohemoglobin from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2012, 287, 16435-16446.	3.4	18
25	Hemoglobin Biosynthesis in Vitreoscilla stercoraria DW: Cloning, Expression, and Characterization of a New Homolog of a Bacterial Globin Gene. Applied and Environmental Microbiology, 1998, 64, 2220-2228.	3.1	17
26	Novel flavohemoglobins of mycobacteria. IUBMB Life, 2011, 63, 337-345.	3.4	16
27	Mechanistic Insight into the Enzymatic Reduction of Truncated Hemoglobin N of Mycobacterium tuberculosis. Journal of Biological Chemistry, 2014, 289, 21573-21583.	3.4	15
28	Optimization of Immunogold Labeling TEM: An ELISA-based Method for Rapid and Convenient Simulation of Processing Conditions for Quantitative Detection of Antigen. Journal of Histochemistry and Cytochemistry, 2001, 49, 355-367.	2.5	14
29	Role of N-Terminal Domain of Streptokinase in Protein Transport. Biochemical and Biophysical Research Communications, 1996, 227, 303-310.	2.1	13
30	Mutational study of the bacterial hemoglobin distal heme pocket. Biochemical and Biophysical Research Communications, 2005, 326, 290-297.	2.1	13
31	Functional implications of the proximal site hydrogen bonding network in Vitreoscilla hemoglobin (VHb): Role of Tyr95 (G5) and Tyr126 (H12). FEBS Letters, 2008, 582, 3494-3500.	2.8	12
32	Haemoglobins of Mycobacteria. Advances in Microbial Physiology, 2013, 63, 147-194.	2.4	12
33	Intermolecular interactions in staphylokinase-plasmin(ogen) bimolecular complex: Function of His43 and Tyr44. FEBS Letters, 2011, 585, 1814-1820.	2.8	10
34	Enhanced plasminogen activation by staphylokinase in the presence of streptokinase Î²Î²Î³ domains: Plasminogen kringles play a role. FEBS Letters, 2005, 579, 1565-1572.	2.8	9
35	Pro⁴² and Val⁴⁵ of staphylokinase modulate intermolecular interactions of His⁴³â€“Tyr⁴⁴ pair and specificity of staphylokinaseâ€“plasmin activator complex. FEBS Letters, 2012, 586, 653-658.	2.8	8
36	Type II flavohemoglobin of Mycobacterium smegmatis oxidizes d-lactate and mediate electron transfer. International Journal of Biological Macromolecules, 2018, 112, 868-875.	7.5	8

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37	Type I flavohemoglobin of mycobacterium smegmatis is a functional nitric oxide dioxygenase. IUBMB Life, 2014, 66, 396-404.	3.4	7
38	Multidomain truncated hemoglobins: New members of the globin family exhibiting tandem repeats of globin units and domain fusion. IUBMB Life, 2017, 69, 479-488.	3.4	6
39	Truncated Hemoglobin O Carries an Autokinase Activity and Facilitates Adaptation of Mycobacterium tuberculosis Under Hypoxia. Antioxidants and Redox Signaling, 2020, 32, 351-362.	5.4	6
40	The Discovery of Vitreoscilla Hemoglobin and Early Studies on Its Biochemical Functions, the Control of Its Expression, and Its Use in Practical Applications. Microorganisms, 2021, 9, 1637.	3.6	6
41	Genetic transformation of Vitreoscilla sp. Gene, 1996, 177, 265-266.	2.2	4
42	Fibrinâ€targeted plasminogen activation by plasminogen activator, PadA, from Streptococcus dysgalactiae. Protein Science, 2014, 23, 714-722.	7.6	4
43	Integration of VEKâ€30 peptide enhances fibrinolytic properties of staphylokinase. Biotechnology and Applied Biochemistry, 2021, 68, 213-220.	3.1	3
44	New Insights Into the Function of Flavohemoglobin in Mycobacterium tuberculosis: Role as a NADPH-Dependent Disulfide Reductase and D-Lactate-Dependent Mycothione Reductase. Frontiers in Cellular and Infection Microbiology, 2021, 11, 796727.	3.9	3
45	Genetic relationship between nitrogen fixation and nitrate utilization in Cylindrospermum fertilissimum. Molecular Genetics and Genomics, 1980, 180, 629-633.	2.4	2
46	Transcriptional Control of Vitreoscilla Hemoglobin Synthesis. , 1991, , 313-321.		1
47	Bilobed shape of PadA reveals the connectivity from single to multi-domain bacterial plasminogen activators. International Journal of Biological Macromolecules, 2015, 78, 370-378.	7.5	0