

Kanak L Dikshit

List of Publications by Year in descending order

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47
papers

1,612
citations

331538

21
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289141

40
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48
all docs

48
docs citations

48
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of VEK ³⁰ peptide enhances fibrinolytic properties of staphylokinase. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 213-220.	1.4	3
2	The Discovery of Vitreoscilla Hemoglobin and Early Studies on Its Biochemical Functions, the Control of Its Expression, and Its Use in Practical Applications. <i>Microorganisms</i> , 2021, 9, 1637.	1.6	6
3	New Insights Into the Function of Flavohemoglobin in <i>Mycobacterium tuberculosis</i> : Role as a NADPH-Dependent Disulfide Reductase and D-Lactate-Dependent Mycothione Reductase. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 796727.	1.8	3
4	Truncated Hemoglobin O Carries an Autokinase Activity and Facilitates Adaptation of <i>Mycobacterium tuberculosis</i> Under Hypoxia. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 351-362.	2.5	6
5	Type II flavohemoglobin of <i>Mycobacterium smegmatis</i> oxidizes d-lactate and mediate electron transfer. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 868-875.	3.6	8
6	Multidomain truncated hemoglobins: New members of the globin family exhibiting tandem repeats of globin units and domain fusion. <i>IUBMB Life</i> , 2017, 69, 479-488.	1.5	6
7	Lipoprotein LprI of <i>Mycobacterium tuberculosis</i> Acts as a Lysozyme Inhibitor. <i>Journal of Biological Chemistry</i> , 2016, 291, 2938-2953.	1.6	37
8	Recent applications of Vitreoscilla hemoglobin technology in bioproduct synthesis and bioremediation. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1627-1636.	1.7	98
9	Bilobed shape of PadA reveals the connectivity from single to multi-domain bacterial plasminogen activators. <i>International Journal of Biological Macromolecules</i> , 2015, 78, 370-378.	3.6	0
10	Mechanistic Insight into the Enzymatic Reduction of Truncated Hemoglobin N of <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2014, 289, 21573-21583.	1.6	15
11	Fibrin ³ -targeted plasminogen activation by plasminogen activator, PadA, from <i>Streptococcus dysgalactiae</i> . <i>Protein Science</i> , 2014, 23, 714-722.	3.1	4
12	Type I flavohemoglobin of <i>Mycobacterium smegmatis</i> is a functional nitric oxide dioxygenase. <i>IUBMB Life</i> , 2014, 66, 396-404.	1.5	7
13	Haemoglobins of <i>Mycobacteria</i> . <i>Advances in Microbial Physiology</i> , 2013, 63, 147-194.	1.0	12
14	Truncated Hemoglobin, HbN, Is Post-translationally Modified in <i>Mycobacterium tuberculosis</i> and Modulates Host-Pathogen Interactions during Intracellular Infection. <i>Journal of Biological Chemistry</i> , 2013, 288, 29987-29999.	1.6	33
15	An Unconventional Hexacoordinated Flavohemoglobin from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 16435-16446.	1.6	18
16	THE BIOCHEMISTRY OF VITREOSCILLA HEMOGLOBIN. <i>Computational and Structural Biotechnology Journal</i> , 2012, 3, e201210002.	1.9	31
17	Role of PheE15 Gate in Ligand Entry and Nitric Oxide Detoxification Function of <i>Mycobacterium tuberculosis</i> Truncated Hemoglobin N. <i>PLoS ONE</i> , 2012, 7, e49291.	1.1	26
18	Pro ⁴² and Val ⁴⁵ of staphylokinase modulate intermolecular interactions of His ⁴³ –Tyr ⁴⁴ pair and specificity of staphylokinase–plasmin activator complex. <i>FEBS Letters</i> , 2012, 586, 653-658.	1.3	8

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19	Intermolecular interactions in staphylokinase-plasmin(ogen) bimolecular complex: Function of His43 and Tyr44. FEBS Letters, 2011, 585, 1814-1820.	1.3	10
20	Recent advances in understanding the structure, function, and biotechnological usefulness of the hemoglobin from the bacterium <i>Vitreoscilla</i> . Biotechnology Letters, 2011, 33, 1705-1714.	1.1	38
21	Novel flavohemoglobins of mycobacteria. IUBMB Life, 2011, 63, 337-345.	1.5	16
22	Redox-mediated interactions of VHb (<i>Vitreoscilla</i> haemoglobin) with OxyR: novel regulation of VHb biosynthesis under oxidative stress. Biochemical Journal, 2010, 426, 271-280.	1.7	28
23	Role of Pre-A Motif in Nitric Oxide Scavenging by Truncated Hemoglobin, HbN, of <i>Mycobacterium tuberculosis</i> . Journal of Biological Chemistry, 2009, 284, 14457-14468.	1.6	59
24	Functional implications of the proximal site hydrogen bonding network in <i>Vitreoscilla</i> hemoglobin (VHb): Role of Tyr95 (G5) and Tyr126 (H12). FEBS Letters, 2008, 582, 3494-3500.	1.3	12
25	Responses of <i>Mycobacterium tuberculosis</i> Hemoglobin Promoters to In Vitro and In Vivo Growth Conditions. Applied and Environmental Microbiology, 2008, 74, 3512-3522.	1.4	32
26	Oxygen binding and NO scavenging properties of truncated hemoglobin, HbN, of <i>Mycobacterium smegmatis</i> . FEBS Letters, 2006, 580, 4031-4041.	1.3	35
27	Charged nylon membrane substrate for convenient and versatile high resolution microscopic analysis of <i>Escherichia coli</i> & mammalian cells in suspension culture. Cytotechnology, 2006, 51, 111-117.	0.7	18
28	Mutational study of the bacterial hemoglobin distal heme pocket. Biochemical and Biophysical Research Communications, 2005, 326, 290-297.	1.0	13
29	Enhanced plasminogen activation by staphylokinase in the presence of streptokinase $\hat{\Gamma}^2/\hat{\Gamma}^2\hat{\Gamma}^3$ domains: Plasminogen kringles play a role. FEBS Letters, 2005, 579, 1565-1572.	1.3	9
30	Chimeric <i>Vitreoscilla</i> Hemoglobin (VHb) Carrying a Flavoreductase Domain Relieves Nitrosative Stress in <i>Escherichia coli</i> : New Insight into the Functional Role of VHb. Applied and Environmental Microbiology, 2002, 68, 152-160.	1.4	68
31	<i>Mycobacterium tuberculosis</i> Hemoglobin HbO Associates with Membranes and Stimulates Cellular Respiration of Recombinant <i>Escherichia coli</i> . Journal of Biological Chemistry, 2002, 277, 15293-15302.	1.6	67
32	Optimization of Immunogold Labeling TEM. Journal of Histochemistry and Cytochemistry, 2002, 50, 863-873.	1.3	41
33	Function of the 90-loop (Thr90-Glu100) region of staphylokinase in plasminogen activation probed through site-directed mutagenesis and loop deletion. Biochemical Journal, 2002, 365, 379-389.	1.7	53
34	Nitric oxide scavenging and detoxification by the <i>Mycobacterium tuberculosis</i> haemoglobin, HbN in <i>Escherichia coli</i> . Molecular Microbiology, 2002, 45, 1303-1314.	1.2	132
35	<i>Vitreoscilla</i> Hemoglobin. Journal of Biological Chemistry, 2001, 276, 24781-24789.	1.6	135
36	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.	1.3	14

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37	Cloning and Expression of Vitreoscilla Hemoglobin Gene in Burkholderia sp. Strain DNT for Enhancement of 2,4-Dinitrotoluene Degradation. Biotechnology Progress, 2000, 16, 26-30.	1.3	57
38	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.	1.3	20
39	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.	1.4	44
40	Hemoglobin Biosynthesis in <i>Vitreoscilla stercoraria</i> DW: Cloning, Expression, and Characterization of a New Homolog of a Bacterial Globin Gene. Applied and Environmental Microbiology, 1998, 64, 2220-2228.	1.4	17
41	Genetic transformation of Vitreoscilla sp. Gene, 1996, 177, 265-266.	1.0	4
42	Role of N-Terminal Domain of Streptokinase in Protein Transport. Biochemical and Biophysical Research Communications, 1996, 227, 303-310.	1.0	13
43	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.	1.4	105
44	Transcriptional Control of Vitreoscilla Hemoglobin Synthesis. , 1991, , 313-321.		1
45	Study of Vitreoscilla globin (vgb) gene expression and promoter activity in E. Coli through transcriptional fusion. Nucleic Acids Research, 1990, 18, 4149-4155.	6.5	88
46	Cloning, characterization and expression of the bacterial globin gene from Vitreoscilla in Escherichia coli. Gene, 1988, 70, 377-386.	1.0	160
47	Genetic relationship between nitrogen fixation and nitrate utilization in Cyldrospermum fertilissimum. Molecular Genetics and Genomics, 1980, 180, 629-633.	2.4	2