Khawar S Siddiqui

List of Publications by Year
in descending order

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42 papers	3,923 citations	279798 23 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	4981 citing authors

#	Article	IF	Citations
1	Evaluating Enzymatic Productivityâ€"The Missing Link to Enzyme Utility. International Journal of Molecular Sciences, 2022, 23, 6908.	4.1	18
2	Computational Analysis of Thermal Adaptation in Extremophilic Chitinases: The Achillesâ€™ Heel in Protein Structure and Industrial Utilization. Molecules, 2021, 26, 707.	3.8	3
3	Identification of Callose Synthases in Stinging Nettle and Analysis of Their Expression in Different Tissues. International Journal of Molecular Sciences, 2020, 21, 3853.	4.1	7
4	A Molecular Blueprint of Lignin Repression. Trends in Plant Science, 2019, 24, 1052-1064.	8.8	25
5	Plant Fibers and Phenolics: A Review on Their Synthesis, Analysis and Combined Use for Biomaterials with New Properties. Fibers, 2019, 7, 80.	4.0	7
6	Site-directed chemically-modified magnetic enzymes: fabrication, improvements, biotechnological applications and future prospects. Biotechnology Advances, 2019, 37, 357-381.	11.7	18
7	Reactive oxygen species and heavy metal stress in plants: Impact on the cell wall and secondary metabolism. Environmental and Experimental Botany, 2019, 161, 98-106.	4.2	302
8	Interaction of Nano-sized Nutrients with Plant Biomass: A Review. , 2018, , 135-149.		5
9	Expression Analysis of Cell Wall-Related Genes in Cannabis sativa: The â€œIns and Outsâ€•of Hemp Stem Tissue Development. Fibers, 2018, 6, 27.	4.0	3
10	Production of Plant Secondary Metabolites: Examples, Tips and Suggestions for Biotechnologists. Genes, 2018, 9, 309.	2.4	212
11	Novel Insights from Comparative In Silico Analysis of Green Microalgal Cellulases. International Journal of Molecular Sciences, 2018, 19, 1782.	4.1	12
12	Enhancement of lipase stability and productivity through chemical modification and its application to latex-based polymer emulsions. Process Biochemistry, 2017, 57, 131-140.	3.7	18
13	Bast fibre formation: insights from Next-Generation Sequencing. Procedia Engineering, 2017, 200, 229-235.	1.2	11
14	Identification of fasciclin-like arabinogalactan proteins in textile hemp (Cannabis sativa L.): in silico analyses and gene expression patterns in different tissues. BMC Genomics, 2017, 18, 741.	2.8	41
15	Silicon and Plants: Current Knowledge and Technological Perspectives. Frontiers in Plant Science, 2017, 8, 411.	3.6	397
16	Poaceae vs. Abiotic Stress: Focus on Drought and Salt Stress, Recent Insights and Perspectives. Frontiers in Plant Science, 2017, 8, 1214.	3.6	99
17	Impact of Silicon in Plant Biomass Production: Focus on Bast Fibres, Hypotheses, and Perspectives. Plants, 2017, 6, 37.	3.5	29
18	Biotechnological Improvements of Cold-Adapted Enzymes: Commercialization via an Integrated Approach. , 2017, , 477-512.		1

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19	Extraction of High Quality RNA from Cannabis sativa Bast Fibres: A Vademecum for Molecular Biologists. Fibers, 2016, 4, 23.	4.0	11
20	Identification of Reference Genes for RT-qPCR Data Normalization in Cannabis sativa Stem Tissues. International Journal of Molecular Sciences, 2016, 17, 1556.	4.1	36
21	Cannabis sativa: The Plant of the Thousand and One Molecules. Frontiers in Plant Science, 2016, 7, 19.	3.6	961
22	Silicon and the Plant Extracellular Matrix. Frontiers in Plant Science, 2016, 7, 463.	3.6	200
23	Studying Secondary Growth and Bast Fiber Development: The Hemp Hypocotyl Peeks behind the Wall. Frontiers in Plant Science, 2016, 7, 1733.	3.6	62
24	Lignocellulosic biomass: Biosynthesis, degradation, and industrial utilization. Engineering in Life Sciences, 2016, 16, 1-16.	3.6	171
25	How to store plant tissues in the absence of liquid nitrogen? Ethanol preserves the RNA integrity of Cannabis sativa stem tissues. AIMS Molecular Science, 2016, 3, 560-566.	0.5	0
26	WD40-Repeat Proteins in Plant Cell Wall Formation: Current Evidence and Research Prospects. Frontiers in Plant Science, 2015, 6, 1112.	3.6	23
27	Analysis of Cell Wall-Related Genes in Organs of Medicago sativa L. under Different Abiotic Stresses. International Journal of Molecular Sciences, 2015, 16, 16104-16124.	4.1	44
28	A new broad specificity alkaline metalloprotease from a Pseudomonas sp. isolated from refrigerated milk: Role of calcium in improving enzyme productivity. Journal of Molecular Catalysis B: Enzymatic, 2015, 113, 1-8.	1.8	19
29	Destructuring plant biomass: Focus on fungal and extremophilic cell wall hydrolases. Plant Science, 2015, 234, 180-193.	3.6	71
30	Wood biosynthesis and typologies: a molecular rhapsody. Tree Physiology, 2014, 34, 839-855.	3.1	44
31	Psychrophiles. Annual Review of Earth and Planetary Sciences, 2013, 41, 87-115.	11.0	121
32	Integrated -Omics: A Powerful Approach to Understanding the Heterogeneous Lignification of Fibre Crops. International Journal of Molecular Sciences, 2013, 14, 10958-10978.	4.1	47
33	A chemically modified Î±-amylase with a molten-globule state has entropically driven enhanced thermal stabilityâ€. Protein Engineering, Design and Selection, 2010, 23, 769-780.	2.1	33
34	The genome sequence of the psychrophilic archaeon, Methanococcoides burtonii: the role of genome evolution in cold adaptation. ISME Journal, 2009, 3, 1012-1035.	9.8	178
35	Structure and Function of Cold Shock Proteins in Archaea. Journal of Bacteriology, 2007, 189, 5738-5748.	2.2	70
36	17 Proteins from Psychrophiles. Methods in Microbiology, 2006, 35, 395-436.	0.8	9

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37	The Active Site Is the Least Stable Structure in the Unfolding Pathway of a Multidomain Cold-Adapted Î±-Amylase. Journal of Bacteriology, 2005, 187, 6197-6205.	2.2	46
38	Thermodynamic activation properties of elongation factor 2 (EF-2) proteins from psychrotolerant and thermophilic Archaea. Extremophiles, 2002, 6, 143-150.	2.3	46
39	Low-temperature extremophiles and their applications. Current Opinion in Biotechnology, 2002, 13, 253-261.	6.6	461
40	Partial and complete alteration of surface charges of carboxymethylcellulase by chemical modification: thermostabilization in water-miscible organic solvent. Enzyme and Microbial Technology, 1999, 24, 599-608.	3.2	50
41	Automation of compartmental electrophoresis apparatus for the separation of non-covalently attached polysaccharides from proteins. Enzyme and Microbial Technology, 1998, 22, 76-77.	3.2	2
42	Title is missing!. Biotechnology Letters, 1997, 11, 245-248.	0.5	10