

Subba Rao Chaganti

List of Publications by Year in descending order

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66
papers

1,709
citations

236612

25
h-index

315357

38
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66
all docs

66
docs citations

66
times ranked

2013
citing authors

#	ARTICLE	IF	CITATIONS
1	L-asparaginase production by isolated <i>Staphylococcus</i> sp. ? 6A: design of experiment considering interaction effect for process parameter optimization. <i>Journal of Applied Microbiology</i> , 2007, 102, 1382-1391.	1.4	90
2	Enhanced production of xylanase by a newly isolated <i>Aspergillus terreus</i> under solid state fermentation using palm industrial waste: A statistical optimization. <i>Biochemical Engineering Journal</i> , 2009, 48, 51-57.	1.8	80
3	Enhancement of L-Asparaginase Production by Isolated <i>Bacillus circulans</i> (MTCC 8574) Using Response Surface Methodology. <i>Applied Biochemistry and Biotechnology</i> , 2009, 159, 191-198.	1.4	69
4	Enhancement of acid amylase production by an isolated <i>Aspergillus awamori</i> . <i>Journal of Applied Microbiology</i> , 2007, 102, 204-211.	1.4	64
5	Modelling and optimization of fermentation factors for enhancement of alkaline protease production by isolated <i>Bacillus circulans</i> using feed-forward neural network and genetic algorithm. <i>Journal of Applied Microbiology</i> , 2008, 104, 889-898.	1.4	62
6	Flux balance analysis of mixed anaerobic microbial communities: Effects of linoleic acid (LA) and pH on biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14141-14152.	3.8	62
7	Alkaline Protease Production by an Isolated <i>Bacillus circulans</i> under Solid-State Fermentation Using Agroindustrial Waste: Process Parameters Optimization. <i>Biotechnology Progress</i> , 2005, 21, 1380-1388.	1.3	58
8	Polyaniline nanofiber as a novel immobilization matrix for the anti-leukemia enzyme L-asparaginase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 74, 132-137.	1.8	58
9	Environmental (e)RNA advances the reliability of eDNA by predicting its age. <i>Scientific Reports</i> , 2021, 11, 2769.	1.6	58
10	16S rRNA gene based analysis of the microbial diversity and hydrogen production in three mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9002-9017.	3.8	55
11	Biohydrogen production from renewable agri-waste blend: Optimization using mixer design. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6143-6148.	3.8	52
12	Novel Synthesis of Ferric Impregnated Silica Nanoparticles and Their Evaluation as a Matrix for Enzyme Immobilization. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3842-3847.	1.5	51
13	Pretreating mixed anaerobic communities from different sources: Correlating the hydrogen yield with hydrogenase activity and microbial diversity. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12175-12186.	3.8	47
14	Evaluation of Antineoplastic Activity of Extracellular Asparaginase Produced by Isolated <i>Bacillus circulans</i> . <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 72-80.	1.4	40
15	Dark fermentative hydrogen production by mixed anaerobic cultures: Effect of inoculum treatment methods on hydrogen yield. <i>Renewable Energy</i> , 2012, 48, 117-121.	4.3	40
16	Optimization of Alkaline Protease Production by <i>Bacillus</i> sp. Using Taguchi Methodology. <i>Applied Biochemistry and Biotechnology</i> , 2005, 120, 133-144.	1.4	38
17	Mixture design as first step for improved glutaminase production in solid-state fermentation by isolated <i>Bacillus</i> sp. RSP-GLU. <i>Letters in Applied Microbiology</i> , 2008, 47, 256-262.	1.0	35
18	Nickel-Impregnated Silica Nanoparticle Synthesis and Their Evaluation for Biocatalyst Immobilization. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 1888-1895.	1.4	34

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19	Optimizing hydrogen production from a switchgrass steam exploded liquor using a mixed anaerobic culture in an upflow anaerobic sludge blanket reactor. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3160-3175.	3.8	34
20	Influence of linoleic acid, pH and HRT on anaerobic microbial populations and metabolic shifts in ASBRs during dark hydrogen fermentation of lignocellulosic sugars. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2212-2220.	3.8	32
21	Effect of furans and linoleic acid on hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12283-12293.	3.8	30
22	Novel insights into freshwater hydrocarbon-rich sediments using metatranscriptomics: Opening the black box. <i>Water Research</i> , 2018, 136, 1-11.	5.3	30
23	Statistical optimization of factors affecting biohydrogen production from xylose fermentation using inhibited mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11710-11718.	3.8	28
24	Studies on Improving the Immobilized Bead Reusability and Alkaline Protease Production by Isolated Immobilized <i>Bacillus circulans</i> (MTCC 6811) Using Overall Evaluation Criteria. <i>Applied Biochemistry and Biotechnology</i> , 2008, 150, 65-83.	1.4	26
25	Modeling sulfate removal by inhibited mesophilic mixed anaerobic communities using a statistical approach. <i>Water Research</i> , 2013, 47, 2341-2351.	5.3	26
26	Investigating sources and sinks of N ₂ O expression from freshwater microbial communities in urban watershed sediments. <i>Chemosphere</i> , 2017, 188, 697-705.	4.2	26
27	Elucidating acetogenic H ₂ consumption in dark fermentation using flux balance analysis. <i>Bioresource Technology</i> , 2013, 146, 775-778.	4.8	24
28	Effect of inhibitors on hydrogen consumption and microbial population dynamics in mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 249-257.	3.8	22
29	Using a food and paper-cardboard waste blend as a novel feedstock for hydrogen production: Influence of key process parameters on microbial diversity. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6357-6367.	3.8	21
30	Population-Specific Responses to Interspecific Competition in the Gut Microbiota of Two Atlantic Salmon (<i>Salmo salar</i>) Populations. <i>Microbial Ecology</i> , 2018, 75, 140-151.	1.4	21
31	Assessing high-throughput environmental DNA extraction methods for meta-barcode characterization of aquatic microbial communities. <i>Journal of Water and Health</i> , 2019, 17, 37-49.	1.1	21
32	Microbial community and abiotic effects on aquatic bacterial communities in north temperate lakes. <i>Science of the Total Environment</i> , 2021, 781, 146771.	3.9	20
33	Effect of COD:SO ₄ ²⁻ Ratio, HRT and Linoleic Acid Concentration on Mesophilic Sulfate Reduction: Reactor Performance and Microbial Population Dynamics. <i>Water (Switzerland)</i> , 2015, 7, 2275-2292.	1.2	19
34	Functionalized Alginate as Immobilization Matrix in Enantioselective l (+) Lactic Acid Production by <i>Lactobacillus delbrueckii</i> . <i>Applied Biochemistry and Biotechnology</i> , 2008, 149, 219-228.	1.4	18
35	Electricity production from lignin photocatalytic degradation byproducts. <i>Energy</i> , 2016, 111, 774-784.	4.5	18
36	Optimizing the performance of microbial fuel cells fed a combination of different synthetic organic fractions in municipal solid waste. <i>Waste Management</i> , 2016, 49, 73-82.	3.7	18

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37	Using a statistical approach to model hydrogen production from a steam exploded corn stalk hydrolysate fed to mixed anaerobic cultures in an ASBR. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10003-10015.	3.8	16
38	Production of l (+) lactic acid by <i>Lactobacillus delbrueckii</i> immobilized in functionalized alginate matrices. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1411-1415.	1.7	15
39	Fermentative H ₂ production using a switchgrass steam exploded liquor fed to mixed anaerobic cultures: Effect of hydraulic retention time, linoleic acid and nitrogen sparging. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9994-10002.	3.8	15
40	Long term impact of stressing agents on fermentative hydrogen production: Effect on the hydrogenase flux and population diversity. <i>Renewable Energy</i> , 2016, 88, 483-493.	4.3	15
41	Statistical optimization of conditions for minimum H ₂ consumption in mixed anaerobic cultures: Effect on homoacetogenesis and methanogenesis. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 15433-15445.	3.8	14
42	Flux balance analysis of different carbon source fermentation with hydrogen producing <i>Clostridium butyricum</i> using Cell Net Analyzer. <i>Bioresource Technology</i> , 2015, 175, 613-618.	4.8	14
43	Evaluating the microbial community and gene regulation involved in crystallization kinetics of ZnS formation in reduced environments. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 201-216.	1.6	14
44	Impact of culture source and linoleic acid (C18:2) on biohydrogen production from glucose under mesophilic conditions. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4036-4045.	3.8	13
45	Exploring bacterial pathogen community dynamics in freshwater beach sediments: A tale of two lakes. <i>Environmental Microbiology</i> , 2020, 22, 568-583.	1.8	13
46	Novel cost effective full scale mussel shell bioreactors for metal removal and acid neutralization. <i>Journal of Environmental Management</i> , 2016, 183, 601-612.	3.8	12
47	Recreational water monitoring: Nanofluidic qRT-PCR chip for assessing beach water safety. <i>Environmental DNA</i> , 2019, 1, 305-315.	3.1	11
48	Diel Dynamics of Freshwater Bacterial Communities at Beaches in Lake Erie and Lake St. Clair, Windsor, Ontario. <i>Microbial Ecology</i> , 2021, 81, 1-13.	1.4	11
49	Impact of oleic acid on the fermentation of glucose and xylose mixtures to hydrogen and other byproducts. <i>Renewable Energy</i> , 2012, 42, 60-65.	4.3	10
50	Investigating the Microbial Degradation Potential in Oil Sands Fluid Fine Tailings Using Gamma Irradiation: A Metagenomic Perspective. <i>Microbial Ecology</i> , 2017, 74, 362-372.	1.4	10
51	Microbial metabolic strategies for overcoming low-oxygen in naturalized freshwater reservoirs surrounding the Athabasca Oil Sands: A proxy for End-Pit Lakes?. <i>Science of the Total Environment</i> , 2019, 665, 113-124.	3.9	10
52	Assessing the impact of palmitic, myristic and lauric acids on hydrogen production from glucose fermentation by mixed anaerobic granular cultures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18761-18772.	3.8	9
53	Attenuation and modification of the ballast water microbial community during voyages into the Canadian Arctic. <i>Diversity and Distributions</i> , 2017, 23, 567-576.	1.9	9
54	Effects of linoleic acid and its degradation by-products on mesophilic hydrogen production using flocculated and granular mixed anaerobic cultures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 18747-18760.	3.8	8

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55	Continuous hydrogen production using upflow anaerobic sludge blanket reactors: effect of organic loading rate on microbial dynamics and H ₂ metabolism. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 544-551.	1.6	8
56	Metabarcoding of native and invasive species in stomach contents of Great Lakes fishes. <i>PLoS ONE</i> , 2020, 15, e0236077.	1.1	8
57	Nitrification kinetics and microbial community dynamics of attached biofilm in wastewater treatment. <i>Water Science and Technology</i> , 2020, 81, 891-905.	1.2	8
58	Octadecanoic acid/silica particles synthesis for enzyme immobilization: Characterization and evaluation of biocatalytic activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 55, 43-48.	1.8	7
59	Electricity Generation and Biofilm Formation in Microbial Fuel Cells Using Plate Anodes Constructed from Various Grades of Graphite. <i>Journal of Green Engineering (discontinued)</i> , 2014, 4, 13-32.	0.7	7
60	Inhibition of anaerobic biological sulfate reduction process by copper precipitates. <i>Chemosphere</i> , 2019, 236, 124246.	4.2	6
61	Using a Statistical Model to Examine the Effect of COD: SO ₄ ²⁻ Ratio, HRT and LA Concentration on Sulfate Reduction in an Anaerobic Sequencing Batch Reactor. <i>Water (Switzerland)</i> , 2014, 6, 3478-3494.	1.2	5
62	Heterologous expression of CYP102A5 variant from <i>Bacillus cereus</i> CYPB-1: Validation of model for predicting drug metabolism of human P450 probe substrates. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8107-8119.	1.7	4
63	Phytoplankton growth characterization in short term MPN culture assays using 18S metabarcoding and qRT-PCR. <i>Water Research</i> , 2019, 164, 114941.	5.3	4
64	Spatio-temporal dynamics of bacterial communities in the shoreline of Laurentian great Lake Erie and Lake St. Clair's large freshwater ecosystems. <i>BMC Microbiology</i> , 2021, 21, 253.	1.3	4
65	Biogeochemical Characterization of Metal Behavior from Novel Mussel Shell Bioreactor Sludge Residues. <i>Geosciences (Switzerland)</i> , 2019, 9, 50.	1.0	1
66	Improving Environmental DNA Sensitivity for Dreissenid Mussels by Targeting Tandem Repeat Regions of the Mitochondrial Genome. <i>Water (Switzerland)</i> , 2022, 14, 2069.	1.2	1