

# 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  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2013  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Environmental (e)RNA advances the reliability of eDNA by predicting its age. <i>Scientific Reports</i> , 2021, 11, 2769.	1.6	58
4	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
5	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
6	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
7	Metabarcoding of native and invasive species in stomach contents of Great Lakes fishes. <i>PLoS ONE</i> , 2020, 15, e0236077.	1.1	8
8	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
9	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
10	Inhibition of anaerobic biological sulfate reduction process by copper precipitates. <i>Chemosphere</i> , 2019, 236, 124246.	4.2	6
11	Biogeochemical Characterization of Metal Behavior from Novel Mussel Shell Bioreactor Sludge Residues. <i>Geosciences (Switzerland)</i> , 2019, 9, 50.	1.0	1
12	Recreational water monitoring: Nanofluidic qRT-PCR chip for assessing beach water safety. <i>Environmental DNA</i> , 2019, 1, 305-315.	3.1	11
13	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
14	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
15	Novel insights into freshwater hydrocarbon-rich sediments using metatranscriptomics: Opening the black box. <i>Water Research</i> , 2018, 136, 1-11.	5.3	30
16	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
17	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
18	Continuous hydrogen production using upflow anaerobic sludge blanket reactors: effect of organic loading rate on microbial dynamics and H <sub>2</sub> metabolism. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 544-551.	1.6	8

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19	Attenuation and modification of the ballast water microbial community during voyages into the Canadian Arctic. Diversity and Distributions, 2017, 23, 567-576.	1.9	9
20	Investigating the Microbial Degradation Potential in Oil Sands Fluid Fine Tailings Using Gamma Irradiation: A Metagenomic Perspective. Microbial Ecology, 2017, 74, 362-372.	1.4	10
21	Investigating sources and sinks of N <sub>2</sub> O expression from freshwater microbial communities in urban watershed sediments. Chemosphere, 2017, 188, 697-705.	4.2	26
22	Novel cost effective full scale mussel shell bioreactors for metal removal and acid neutralization. Journal of Environmental Management, 2016, 183, 601-612.	3.8	12
23	Electricity production from lignin photocatalytic degradation byproducts. Energy, 2016, 111, 774-784.	4.5	18
24	Long term impact of stressing agents on fermentative hydrogen production: Effect on the hydrogenase flux and population diversity. Renewable Energy, 2016, 88, 483-493.	4.3	15
25	Optimizing the performance of microbial fuel cells fed a combination of different synthetic organic fractions in municipal solid waste. Waste Management, 2016, 49, 73-82.	3.7	18
26	Effect of COD:SO <sub>4</sub> <sup>2-</sup> Ratio, HRT and Linoleic Acid Concentration on Mesophilic Sulfate Reduction: Reactor Performance and Microbial Population Dynamics. Water (Switzerland), 2015, 7, 2275-2292.	1.2	19
27	Flux balance analysis of different carbon source fermentation with hydrogen producing Clostridium butyricum using Cell Net Analyzer. Bioresource Technology, 2015, 175, 613-618.	4.8	14
28	Using a Statistical Model to Examine the Effect of COD: SO <sub>4</sub> <sup>2-</sup> Ratio, HRT and LA Concentration on Sulfate Reduction in an Anaerobic Sequencing Batch Reactor. Water (Switzerland), 2014, 6, 3478-3494.	1.2	5
29	Electricity Generation and Biofilm Formation in Microbial Fuel Cells Using Plate Anodes Constructed from Various Grades of Graphite. Journal of Green Engineering (discontinued), 2014, 4, 13-32.	0.7	7
30	Effect of inhibitors on hydrogen consumption and microbial population dynamics in mixed anaerobic cultures. International Journal of Hydrogen Energy, 2014, 39, 249-257.	3.8	22
31	Statistical optimization of conditions for minimum H <sub>2</sub> consumption in mixed anaerobic cultures: Effect on homoacetogenesis and methanogenesis. International Journal of Hydrogen Energy, 2014, 39, 15433-15445.	3.8	14
32	Optimizing hydrogen production from a switchgrass steam exploded liquor using a mixed anaerobic culture in an upflow anaerobic sludge blanket reactor. International Journal of Hydrogen Energy, 2014, 39, 3160-3175.	3.8	34
33	Fermentative H <sub>2</sub> production using a switchgrass steam exploded liquor fed to mixed anaerobic cultures: Effect of hydraulic retention time, linoleic acid and nitrogen sparging. International Journal of Hydrogen Energy, 2014, 39, 9994-10002.	3.8	15
34	Using a statistical approach to model hydrogen production from a steam exploded corn stalk hydrolysate fed to mixed anaerobic cultures in an ASBR. International Journal of Hydrogen Energy, 2014, 39, 10003-10015.	3.8	16
35	Using a food and paper-cardboard waste blend as a novel feedstock for hydrogen production: Influence of key process parameters on microbial diversity. International Journal of Hydrogen Energy, 2013, 38, 6357-6367.	3.8	21
36	Heterologous expression of CYP102A5 variant from Bacillus cereus CYPB-1: Validation of model for predicting drug metabolism of human P450 probe substrates. Applied Microbiology and Biotechnology, 2013, 97, 8107-8119.	1.7	4

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37	Effect of furans and linoleic acid on hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 12283-12293.	3.8	30
38	Influence of linoleic acid, pH and HRT on anaerobic microbial populations and metabolic shifts in ASBRs during dark hydrogen fermentation of lignocellulosic sugars. International Journal of Hydrogen Energy, 2013, 38, 2212-2220.	3.8	32
39	Elucidating acetogenic H <sub>2</sub> consumption in dark fermentation using flux balance analysis. Bioresource Technology, 2013, 146, 775-778.	4.8	24
40	Modeling sulfate removal by inhibited mesophilic mixed anaerobic communities using a statistical approach. Water Research, 2013, 47, 2341-2351.	5.3	26
41	Statistical optimization of factors affecting biohydrogen production from xylose fermentation using inhibited mixed anaerobic cultures. International Journal of Hydrogen Energy, 2012, 37, 11710-11718.	3.8	28
42	Pretreating mixed anaerobic communities from different sources: Correlating the hydrogen yield with hydrogenase activity and microbial diversity. International Journal of Hydrogen Energy, 2012, 37, 12175-12186.	3.8	47
43	Effects of linoleic acid and its degradation by-products on mesophilic hydrogen production using flocculated and granular mixed anaerobic cultures. International Journal of Hydrogen Energy, 2012, 37, 18747-18760.	3.8	8
44	Assessing the impact of palmitic, myristic and lauric acids on hydrogen production from glucose fermentation by mixed anaerobic granular cultures. International Journal of Hydrogen Energy, 2012, 37, 18761-18772.	3.8	9
45	Impact of culture source and linoleic acid (C18:2) on biohydrogen production from glucose under mesophilic conditions. International Journal of Hydrogen Energy, 2012, 37, 4036-4045.	3.8	13
46	16S rRNA gene based analysis of the microbial diversity and hydrogen production in three mixed anaerobic cultures. International Journal of Hydrogen Energy, 2012, 37, 9002-9017.	3.8	55
47	Impact of oleic acid on the fermentation of glucose and xylose mixtures to hydrogen and other byproducts. Renewable Energy, 2012, 42, 60-65.	4.3	10
48	Dark fermentative hydrogen production by mixed anaerobic cultures: Effect of inoculum treatment methods on hydrogen yield. Renewable Energy, 2012, 48, 117-121.	4.3	40
49	Polyaniline nanofiber as a novel immobilization matrix for the anti-leukemia enzyme l-asparaginase. Journal of Molecular Catalysis B: Enzymatic, 2012, 74, 132-137.	1.8	58
50	Flux balance analysis of mixed anaerobic microbial communities: Effects of linoleic acid (LA) and pH on biohydrogen production. International Journal of Hydrogen Energy, 2011, 36, 14141-14152.	3.8	62
51	Evaluation of Antineoplastic Activity of Extracellular Asparaginase Produced by Isolated Bacillus circulans. Applied Biochemistry and Biotechnology, 2010, 160, 72-80.	1.4	40
52	Nickel-Impregnated Silica Nanoparticle Synthesis and Their Evaluation for Biocatalyst Immobilization. Applied Biochemistry and Biotechnology, 2010, 160, 1888-1895.	1.4	34
53	Enhancement of L-Asparaginase Production by Isolated Bacillus circulans (MTCC 8574) Using Response Surface Methodology. Applied Biochemistry and Biotechnology, 2009, 159, 191-198.	1.4	69
54	Biohydrogen production from renewable agri-waste blend: Optimization using mixer design. International Journal of Hydrogen Energy, 2009, 34, 6143-6148.	3.8	52

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	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
65	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
66	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