

# Miguel Sergio Hernández Jiménez

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

972  
citations

566801

15  
h-index

642321

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toluene biofiltration by the fungus <i>Scenedosporium apiospermum</i> TB1. <i>Biotechnology and Bioengineering</i> , 2001, 76, 61-69.	1.7	117
2	Gaseous Hexane Biodegradation by <i>Fusarium solani</i> in Two Liquid Phase Packed-Bed and Stirred-Tank Bioreactors. <i>Environmental Science &amp; Technology</i> , 2006, 40, 2390-2395.	4.6	103
3	Development of operational strategies to remove carbon dioxide in photobioreactors. <i>Chemical Engineering Journal</i> , 2009, 153, 120-126.	6.6	101
4	Enhanced hexane biodegradation in a two phase partitioning bioreactor: Overcoming pollutant transport limitations. <i>Process Biochemistry</i> , 2006, 41, 1614-1619.	1.8	82
5	Biofiltration of BTEX by the fungus <i>Paecilomyces variotii</i> . <i>International Biodeterioration and Biodegradation</i> , 2008, 62, 442-447.	1.9	82
6	A comparative study of fungal and bacterial biofiltration treating a VOC mixture. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 190-197.	6.5	78
7	Effect of Drying on Biofilter Performance: A Modeling and Experimental Approach. <i>Environmental Science &amp; Technology</i> , 2003, 37, 985-992.	4.6	73
8	Methane degradation in two-phase partition bioreactors. <i>Chemical Engineering Journal</i> , 2009, 152, 289-292.	6.6	73
9	Correlation of Biological Activity and Reactor Performance in Biofiltration of Toluene with the Fungus <i>Paecilomyces variotii</i> CBS115145. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4280-4285.	1.4	40
10	Phenomenological model of fungal biofilters for the abatement of hydrophobic VOCs. <i>Biotechnology and Bioengineering</i> , 2008, 101, 1182-1192.	1.7	35
11	Pilot scale treatment of chromite ore processing residue using sodium sulfide in single reduction and coupled reduction/stabilization processes. <i>Journal of Hazardous Materials</i> , 2012, 207-208, 97-102.	6.5	33
12	Detection of residual organochlorine and organophosphorus pesticides in agricultural soil in Rio Verde region of San Luis Potosi, Mexico. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2014, 49, 498-504.	0.7	29
13	Elimination of hydrophobic volatile organic compounds in fungal biofilters: Reducing start-up time using different carbon sources. <i>Biotechnology and Bioengineering</i> , 2011, 108, 758-765.	1.7	25
14	Influence of the inlet load, EBRT and mineral medium addition on spore emission by <i>Fusarium solani</i> in the fungal biofiltration of hydrophobic VOCs. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 778-784.	1.6	24
15	Temperature and moisture effect on spore emission in the fungal biofiltration of hydrophobic VOCs. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 605-613.	0.9	19
16	Evaluation of Steam Explosion Pretreatment and Enzymatic Hydrolysis Conditions for Agave Bagasse in Biomethane Production. <i>Bioenergy Research</i> , 2021, 14, 1328-1337.	2.2	14
17	Biomitigation of CO <sub>2</sub> from flue gas by <i>Scenedesmus obtusiusculus</i> AT-UAM using a hybrid photobioreactor coupled to a biomass recovery stage by electro-coagulation-flotation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 28561-28574.	2.7	12
18	Kinetic Characterization by Respirometry of Volatile Organic Compound-Degrading Biofilms from Gas-Phase Biological Filters. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 19405-19415.	1.8	6

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19	Hydrothermal pretreatment of agave bagasse for biomethane production: Operating conditions and energy balance. <i>Biomass and Bioenergy</i> , 2020, 142, 105753.	2.9	6
20	Evaluation of endosulfan degradation capacity by six pure strains isolated from a horticulture soil. <i>Folia Microbiologica</i> , 2021, 66, 973-981.	1.1	6
21	Study on endosulfan-degrading capability of <i>Paecilomyces variotii</i> , <i>Paecilomyces lilacinus</i> and <i>Sphingobacterium</i> sp. in liquid cultures. <i>Bioremediation Journal</i> , 2019, 23, 251-258.	1.0	5
22	Operational parameters in H <sub>2</sub> S biofiltration under extreme acid conditions: performance, biomass control, and CO <sub>2</sub> consumption. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4502-4508.	2.7	5
23	Methane production and carbon assimilation in nontronite at 25°C. <i>Applied Clay Science</i> , 2019, 174, 29-37.	2.6	4