Messias B Silva

List of Publications by Year
in descending order

88 papers	1,274 citations	516215 16 h-index	395343 33 g-index
91 all docs	91 docs citations	91 times ranked	1726 citing authors

#	Article	IF	Citations
1	Highly Wet Chlorella minutissima Biomass for In Situ Biodiesel Production and Residual Biomass Rich in Labile Carbohydrates. Bioenergy Research, 2022, 15, 154-165.	2.2	2
2	Use of Fungal Mycelium as Biosupport in the Formation of Lichen-like Structure: Recovery of Algal Grown in Sugarcane Molasses for Lipid Accumulation and Balanced Fatty Acid Profile. Membranes, 2022, 12, 258.	1.4	2
3	In Situ Transesterification of Microbial Biomass for Biolubricant Production Catalyzed by Heteropolyacid Supported on Niobium. Energies, 2022, 15, 1591.	1.6	2
4	MDE-S: A Case Study of the Health Company Diagnostic Method Applied in Three Health Units. IFIP Advances in Information and Communication Technology, 2021, , 305-313.	0.5	3
5	DESIGN THINKING AS ACTIVE TEACHING METHODOLOGY AT THE UNIVERSITY -COMPARATIVE STUDY BETWEEN COURSES. Recima21: Revista Científica Multidisciplinar, 2021, 2, e24231.	0.0	0
6	Modeling and optimization of hybrid leachate treatment processes and scale-up of the process: Review. Journal of Cleaner Production, 2021, 312, 127732.	4.6	3
7	Implementation of FCAUP â€" a framework for conformity assessment inspired by the uncertainty principle. TQM Journal, 2021, 33, 1069-1099.	2.1	0
8	Classical, fuzzy, hesitant fuzzy and intuitionistic fuzzy analytic hierarchy processes applied to industrial maintenance management. Journal of Intelligent and Fuzzy Systems, 2020, 38, 601-608.	0.8	14
9	Microalgae as a Feedstock for Sustainable Fatty Acids: Factorial Design Study. Chemical Engineering and Technology, 2020, 43, 119-125.	0.9	4
10	Mixture design as a potential tool in modeling the effect of light wavelength on <i>Dunaliella salina</i> cultivation: an alternative solution to increase microalgae lipid productivity for biodiesel production. Preparative Biochemistry and Biotechnology, 2020, 50, 379-389.	1.0	17
11	Consortium Growth of Filamentous Fungi and Microalgae: Evaluation of Different Cultivation Strategies to Optimize Cell Harvesting and Lipid Accumulation. Energies, 2020, 13, 3648.	1.6	13
12	In Situ Transesterification of Marine Microalgae Biomass via Heterogeneous Acid Catalysis. Bioenergy Research, 2020, 13, 1260-1268.	2.2	7
13	Adjustment of the Operational Parameters of an Unconventional Integrated and Illuminated Internally Photobioreactor (ILI-PBR) for the Batch Autotrophic Cultivation of the Chlorella minutissima, Using the Taguchi Method. Applied Biochemistry and Biotechnology, 2020, 191, 245-257.	1.4	2
14	An unconventional two-stage cultivation strategy to increase the lipid content and enhance the fatty acid profile on Chlorella minutissima biomass cultivated in a novel internal light integrated photobioreactor aiming at biodiesel production. Renewable Energy, 2020, 156, 591-601.	4.3	15
15	Continuous cultivation of Chlorella minutissima 26a in a tube-cylinder internal-loop airlift photobioreactor to support 3G biorefineries. Renewable Energy, 2019, 130, 439-445.	4.3	15
16	Continuous cultivation of Chlorella minutissima 26a in landfill leachate-based medium using concentric tube airlift photobioreactor. Algal Research, 2019, 41, 101549.	2.4	10
17	Multiple response optimization: Analysis of genetic programming for symbolic regression and assessment of desirability functions. Knowledge-Based Systems, 2019, 179, 21-33.	4.0	24
18	Value stream mapping as a lean manufacturing tool: A new account approach for cost saving in a textile company. International Journal of Production Management and Engineering, 2019, 7, 1.	0.8	19

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19	Avaliação da atividade antibacteriana do óleo da microalga Chlorella minutissima como alternativa para o tratamento de dermatite atópica. Brazilian Journal of Development, 2019, 5, 24893-24914.	0.0	1
20	Comparative study between different methods of agglutination in multiple response optimization. GEPROS: Gestão Da Produção, Operações E Sistemas, 2019, 14, 95-113.	0.0	4
21	Simultaneous esterification and transesterification of microbial oil from Chlorella minutissima by acid catalysis route: A comparison between homogeneous and heterogeneous catalysts. Fuel, 2018, 211, 261-268.	3.4	45
22	Development of a novel nano-biomaterial for biomedical applications. Materials Research Express, 2018, 5, 125014.	0.8	2
23	Green Microalgae as Substrate for Producing Biofuels and Chlorophyll in Biorefineries. , 2018, , 439-461.		1
24	Evaluation of fatty acids production by Chlorella minutissima in batch bubble-column photobioreactor. Fuel, 2018, 230, 155-162.	3.4	29
25	Framework for conformity assessment based on an analogy with the Uncertainty Principle of Quantum Mechanics (FCAUP). International Journal of Production Economics, 2018, 203, 394-403.	5.1	2
26	The Application of Microbial Consortia in a Biorefinery Context: Understanding the Importance of Artificial Lichens. , 2018, , 423-437.		3
27	SELECTION OF INDUSTRIAL MAINTENANCE STRATEGY: CLASSICAL AHP AND FUZZY AHP APPLICATIONS. International Journal of the Analytic Hierarchy Process, 2018, 10, .	0.2	5
28	Lean healthcare. Journal of Innovation and Healthcare Management, 2018, 1, 1-9.	0.0	4
29	Lean thinking to improving access to cancer patients in a Public General Hospital. Journal of Innovation and Healthcare Management, 2018, 1, 1-8.	0.0	0
30	Assessment of the Students' Expectations and Perception Regarding the Development of the Competences in Industrial Engineering Course. Advances in Intelligent Systems and Computing, 2018, , 392-401.	0.5	1
31	Processes proposal for the technology search, reception and analysis for the Intellectual Property management in a Technology Licensing Office from a brazilian Scientific and Technological Institution. International Journal of Advanced Engineering Research and Science, 2018, 5, 1-9.	0.0	1
32	The Integrated Management System (IMS) and Ergonomics: An Exploratory Research of Qualitative Perception in the Application of NR-17. Journal of Ergonomics, 2018, 08, .	0.2	0
33	Project Based Learning Applied to Technical Drawing. Creative Education, 2018, 09, 479-496.	0.2	2
34	Chemometric Methods for the Optimization of the Advanced Oxidation Processes for the Treatment of Drinking and Wastewater. Handbook of Environmental Chemistry, 2017, , 405-422.	0.2	0
35	Estudo comparativo entre os métodos gradiente reduzido generalizado e algoritmo genético em otimização com múltiplas respostas. Revista Produção Online, 2017, 17, 592.	0.1	4
36	Application of a Process Model for the Management of Intellectual Property in a Technology Licensing Office from a Brazilian Research Center. International Journal of Innovation, 2017, 5, 335-348.	0.3	7

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37	Proposed Steps to Projects Development in the Public Sector. International Journal of Advanced Engineering Research and Science, 2017, 4, 134-139.	0.0	0
38	OTIMIZAÇÃƒO E ESCOLHA DE MODELOS PROBABILÃSTICOS NO PROCESSO DE TRATAMENTO TÃ‰RMICO EM ARAMES DE AÃ‡O TEMPERADOS E REVENIDOS. , 2017, 8, 640.		1
39	Effects of early aldosterone antagonism on cardiac remodeling in rats with aortic stenosis-induced pressure overload. International Journal of Cardiology, 2016, 222, 569-575.	0.8	6
40	Multiobjective portfolio optimization of ARMAâ€"GARCH time series based on experimental designs. Computers and Operations Research, 2016, 66, 434-444.	2.4	16
41	Microalgae Assisted Bioremediation of Landfill Leachate Using a Biocoil Reactor: Evaluation of Operational Conditions Using Taguchi Experimental Design. British Journal of Environment and Climate Change, 2016, 6, 299-308.	0.3	5
42	Improving the Performance of Metaheuristics: An Approach Combining Response Surface Methodology and Racing Algorithms. International Journal of Engineering Mathematics, 2015, 2015, 1-9.	0.2	7
43	Aplicação das metodologias Desirability e Simplex para otimização das propriedades mecânicas em arames de aço temperados. Production, 2015, 25, 598-610.	1.3	5
44	Evaluation of the cultivation conditions of marine microalgae Chlorella sp. to be used as feedstock in ultrasound-assisted ethanolysis. Biofuel Research Journal, 2015, 2, 288-294.	7.2	11
45	Planejamento de experimentos em blocos aplicado Ãs propriedades mecânicas de arames de aço para molas. Production, 2014, 24, 71-83.	1.3	1
46	Formation of titania nanotube arrays by anodisation: DOE approach. Surface Engineering, 2014, 30, 115-122.	1.1	10
47	The Application of Response Surface Methodology in the Study of Photodegraded Industrial Dairy Effluents by the Photo-Fenton Process: Optimization and Economic Viability. ISRN Chemical Engineering, 2014, 2014, 1-9.	1.2	6
48	Microalgal Feedstock for Bioenergy: Opportunities and Challenges. , 2014, , 367-392.		4
49	Quality Improvement in the Aerospace Industry: Investigation of the Main Characteristics. International Review of Mechanical Engineering, 2014, 8, 893.	0.1	6
50	An Application of the Taguchi Method (Robust Design) to Environmental Engineering: Evaluating Advanced Oxidative Processes in Polyester-Resin Wastewater Treatment. American Journal of Analytical Chemistry, 2014, 05, 828-837.	0.3	21
51	Formation of TiO2 Nanotube Layer by Anodization of Titanium in Ethylene Glycol-H2O Electrolyte. Journal of Surface Engineered Materials and Advanced Technology, 2014, 04, 123-130.	0.2	8
52	Unraveling the structure of sugarcane bagasse after soaking in concentrated aqueous ammonia (SCAA) and ethanol production by Scheffersomyces (Pichia) stipitis. Biotechnology for Biofuels, 2013, 6, 102.	6.2	37
53	Environmental assessment of residues generated after consecutive acid-base pretreatment of sugarcane bagasse by advanced oxidative process. Sustainable Chemical Processes, 2013, 1, 20.	2.3	2
54	Applying Business Diagnostic Method in Companies Certified by the Quality Management System ISO TS 16949. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 235-240.	0.4	6

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55	Process Improvement in a Cancer Outpatient Chemotherapy Unit using Lean Healthcare. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 241-246.	0.4	12
56	Lean Startup applied in Healthcare: A viable methodology for continuous improvement in the development of new products and services. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 295-299.	0.4	16
57	Access Improvement using Lean Healthcare for Radiation Treatment in a Public Hospital. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 247-253.	0.4	12
58	Effects of ferric ions on the catalytic ozonation process on sanitary landfill leachates. Revista Ambiente & Água, 2013, 8, .	0.1	0
59	Modeling the Photocatalytic Process of Variation in Chemical Oxygen Demand via Stochastic Differential Equations. Open Chemical Engineering Journal, 2013, 7, 1-8.	0.4	5
60	The realm of cellulases in biorefinery development. Critical Reviews in Biotechnology, 2012, 32, 187-202.	5.1	176
61	Optimization of Radial Basis Function neural network employed for prediction of surface roughness in hard turning process using Taguchi's orthogonal arrays. Expert Systems With Applications, 2012, 39, 7776-7787.	4.4	89
62	Statistical Optimization of Sugarcane Leaves Hydrolysis into Simple Sugars by Dilute Sulfuric Acid Catalyzed Process. Sugar Tech, 2012, 14, 53-60.	0.9	44
63	Heterogeneous Photocatalytic Degradation of Dairy Wastewater Using Immobilized ZnO. ISRN Chemical Engineering, 2012, 2012, 1-8.	1.2	12
64	Methodological Validation for the Determination of Ca, Cr, Mg and Mn in Umbilical Cord and Maternal Blood (City of Vale do Paraíba, São Paulo, Brazil). Food and Public Health, 2012, 2, 44-53.	1.0	0
65	Molecular assay optimized by Taguchi experimental design method for venous thromboembolism investigation. Molecular and Cellular Probes, 2011, 25, 231-237.	0.9	13
66	Artificial neural networks for machining processes surface roughness modeling. International Journal of Advanced Manufacturing Technology, 2010, 49, 879-902.	1.5	70
67	Electrodeposition and characterization of Cu–Nb composite coatings. Surface and Coatings Technology, 2010, 205, 2152-2159.	2.2	11
68	A DOE based approach for the design of RBF artificial neural networks applied to prediction of surface roughness in AISI 52100 hardened steel turning. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2010, 32, 503-510.	0.8	7
69	Utilização de diferentes tipos de policloretos de alumínio para purificação de hidrolisado de bagaço de cana através da técnica de coagulação e floculação. Quimica Nova, 2010, 33, 1698-1702.	0.3	2
70	Leachate treatment process at a municipal stabilized landfill by catalytic ozonation: an exploratory study from Taguchi orthogonal array. Brazilian Journal of Chemical Engineering, 2009, 26, 481-492.	0.7	8
71	Integration of microbiological treatment with immobilized cells and advanced oxidation process for residues originated by the textile industry. New Biotechnology, 2009, 25, S162.	2.4	0
72	Resistance of Santa Ines and crossbred ewes to naturally acquired gastrointestinal nematode infections. Veterinary Parasitology, 2009, 165, 273-280.	0.7	65

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73	Electrodeposition of copper on titanium wires: Taguchi experimental design approach. Journal of Materials Processing Technology, 2009, 209, 1181-1188.	3.1	155
74	Discoloration process modeling by neural network. Chemical Engineering Journal, 2008, 140, 71-76.	6.6	6
75	Optimization of the AZO dyes decoloration process through neural networks: Determination of the H_2O_2 addition critical point. Chemical Engineering Journal, 2008, 141, 35-41.	6.6	13
76	Immunological responses and cytokine gene expression analysis to Cooperia punctata infections in resistant and susceptible Nelore cattle. Veterinary Parasitology, 2008, 155, 95-103.	0.7	29
77	Sheep and cattle grazing alternately: Nematode parasitism and pasture decontamination. Small Ruminant Research, 2008, 75, 135-143.	0.6	46
78	Prediction via Neural Networks of the Residual Hydrogen Peroxide used in Photo-Fenton Processes for Effluent Treatment. Chemical Engineering and Technology, 2007, 30, 1134-1139.	0.9	6
79	Hybrid neural model for decoloration by UV/H_2O_2 involving process variables and structural parameters characteristics to azo dyes. Chemical Engineering and Processing: Process Intensification, 2007, 46, 45-51.	1.8	12
80	ELECTRODEPOSITION OF COPPER AS A ROUTE FOR TANTALUM DRAWING. Surface Engineering, 2002, 18, 120-125.	1.1	1
81	Use of Immobilized Candida Yeast Cells for Xylitol Production from Sugarcane Bagasse Hydrolysate. Applied Biochemistry and Biotechnology, 2002, 98-100, 489-496.	1.4	30
82	Production and Characterization of Copper-Niobium Composite Electrocoatings. Materials Science Forum, 0, 805, 184-189.	0.3	0
83	Microalgae Cultivation in Photobioreactors Aiming at Biodiesel Production. , 0, , .		2
84	AVALIAÇÃO DOS FATORES ENVOLVIDOS NA EXTRAÇÃO DE LIPÍDIOS DA BIOMASSA DA MICROALGA CHLORELLA MINUTÃSSIMA VIA SOLVENTES. Holos, 0, 2, 66.	0.0	4
85	Nannochloropsis gaditana and Dunaliella salina as Feedstock for Biodiesel Production: Lipid Production and Biofuel Quality. Journal of Advances in Biology & Biotechnology, 0, , 1-10.	0.2	2
86	Microalgae as a Source of Functional PUFAs: A Green Low-cost Pathway via Enzymatic Hydrolysis. Journal of Advances in Biology & Biotechnology, 0, , 1-13.	0.2	1
87	Semi-continuous Cultivation of Chlorella minutissima in Landfill Leachate: Effect of Process Variables on Biomass Composition. Waste and Biomass Valorization, 0, , 1.	1.8	2
88	Contributions to the future of metaheuristics in the contours of scientific development. GestÃo & ProduÃ§Ão, 0, 29, .	0.5	7