

# International Journal of Geoscience, Engineering and Technology

ISSN: 2675-2883

Volume 1

Nº 1

Year: 2020



# **International Journal of Geoscience, Engineering and Technology**

Volume 1, Number 1, April 2020.

## **EDITORIAL TEAM**

### **Editorial Manager:**

Antônio Jorge de Lima Gomes (Brazil)

### **Publishing Editor:**

Jorge Luiz dos Santos Gomes (Brazil)

### **Revisors:**

Mariana Rodrigues de Carvalho - Portugal - LNEC

Jairo Lisboa Rodrigues - Brazil - UFVJM

Guilherme Jorge Brigolini Silva - Brazil - UFOP

Caio César de Souza Alves - Brazil - UFVJM

Tânia Fernandes Bogutchi - Brazil - PUC MG

Jorge Luiz dos Santos Gomes - Brazil - UFVJM

Antônio Jorge de Lima Gomes - Brazil - UFVJM

Thiago Bomjardim Porto - Brazil - CEFET/MG

### **Layout and Proof Reading:**

Jorge Luiz dos Santos Gomes (Brazil).

**Published: April 30, 2020**

## CONTENTS

<b>Editorial to the first issue of International Journal of Geoscience, Engineering and Technology</b> .....	<b>III</b>
<i>Antônio Jorge de Lima Gomes and Jorge Luiz dos Santos Gomes</i>	
<b>Morphometric Characterization of the Todos os Santos river Basin in Minas Gerais – Brazil</b> .....	<b>1</b>
<i>Jorge Luiz dos Santos Gomes</i>	
<b>Geological formations of the Mucuri river path in the State of Minas Gerais.</b>	<b>7</b>
<i>Antônio Jorge de Lima Gomes</i>	
<b>Relation between use and occupation of soil and water quality in Mucuri's basin</b> .....	<b>17</b>
<i>Ana Luiza Grateki Barbosa, Luan Viana dos Santos, Maria Cecília Ribeiro Miranda Metzker, Rafael Alvarenga Almeida and Daniel Brasil Ferreira Pinto</i>	
<b>Learning and educating with ecological ink: a tutorial teaching practice in the Serra do Espinhaço</b> .....	<b>21</b>
<i>Janaína dos Anjos Ferraz, Frank Alison de Carvalho and Flaviana Tavares Vieira Teixeira</i>	
<b>The influences of geological formations on water flow in wells in the Municipality of Teófilo Otoni</b> .....	<b>27</b>
<i>Breno Alcântara Silva and Jorge Luiz dos Santos Gomes</i>	
<b>The Capões of Seasonal Semi-deciduous Forest in the Cerrados and Rupestrian Fields of the Espinhaço Chain</b> .....	<b>43</b>
<i>Thamyres Sabrina Gonçalves, Alexandre Christófaro Silva, Carlos Victor Mendonça Filho, Camila Rodrigues Costa and Isabella Lopes Braga</i>	
<b>Consumption of treated water in the cities of Governador Valadares and Teófilo Otoni between 2013 and 2017</b> .....	<b>49</b>
<i>Alice Rodrigues de Matos, Michele Lima Lopes and Alexandre Sylvio Vieira da Costa</i>	
<b>Quali-quantitative diagnosis and urban tree map in Marajoara neighborhood in the city Teófilo Otoni – MG</b> .....	<b>54</b>
<i>Karla Thais Alkimim Reis, Rafael Alvarenga Almeida, Maíra Rodrigues dos Santos and Ivan Carlos Carreiro Almeida</i>	

<b>Origin and phytogeographic evolution of the Rupestrian Fields of the Espinhaço Chain .....</b>	<b>63</b>
<i>Thamyres Sabrina Gonçalves, Alexandre Christófaro Silva, Carlos Victor Mendonça Filho, Camila Rodrigues Costa and Isabella Lopes Braga</i>	
<b>Compressive strength of colored concrete with iron oxide in the city of Teófilo Otoni in Minas Gerais .....</b>	<b>69</b>
<i>Gisele Monteiro de Sousa, Karina Rodrigues Oliveira and Antônio Jorge de Lima Gomes</i>	
<b>Analysis of drugs as corrosion inhibitors in metallic materials .....</b>	<b>78</b>
<i>Matheus da Silva Lages, Anderson Júnior dos Santos, Geraldo Lopes Neto, Luan Pereira Salim, Mateus de Moura Melo and Sérgio Pereira Cerqueira</i>	
<b>Financial speculation as an investment alternative for rural producers .....</b>	<b>84</b>
<i>Bruno Ferreira Campos da Silva and Carlos Alberto Mirez Tarrillo</i>	
<b>Basic design and execution of a hydro-sanitary installation of a Mobile Educational Unit for residential bathrooms .....</b>	<b>94</b>
<i>Lorena Lehmann Alves, Luély Souza Guimarães, Alice Dias Ferreira, Carolina Tanure Martins, Iara Ferreira de Rezende Costa1 and Alcino de Oliveira Costa Neto</i>	
<b>Analysis of the Finite Differences Numerical Method and Method Analysis of Successive Integrations in the study of a simply supported beam subjected to distributed load .....</b>	<b>105</b>
<i>Daniel Tanure Franco Dutra Dutra and Carlos Alberto Mirez Tarrillo</i>	
<b>Road network at immediate region of Teófilo Otoni .....</b>	<b>111</b>
<i>Magali Maria de Araújo Barroso and Leônidas Conceição Barroso</i>	