

Theofilos Toulkeridis

List of Publications by Year in descending order

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131
papers

1,647
citations

331538

21
h-index

414303

32
g-index

153
all docs

153
docs citations

153
times ranked

1381
citing authors

#	ARTICLE	IF	CITATIONS
1	The magmatic feeding system of El Reventador volcano (Sub-Andean zone, Ecuador) constrained by texture, mineralogy and thermobarometry of the 2002 erupted products. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 94-106.	0.8	92
2	Shear-zone patterns and eclogite-facies metamorphism in the Mozambique belt of northern Malawi, east-central Africa: implications for the assembly of Gondwana. <i>Precambrian Research</i> , 2002, 116, 19-56.	1.2	76
3	Palaeoproterozoic granulite-facies metamorphism and granitoid intrusions in the Ubendian-Usagaran Orogen of northern Malawi, east-central Africa. <i>Precambrian Research</i> , 1997, 85, 27-51.	1.2	69
4	Characterization, provenance, and tectonic setting of Fig Tree greywackes from the Archaean Barberton Greenstone Belt, South Africa. <i>Sedimentary Geology</i> , 1999, 124, 113-129.	1.0	61
5	Diffuse CO ₂ emission rate from Pululahua and the lake-filled Cuicocha calderas, Ecuador. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 163-169.	0.8	53
6	Sm-Nd, Rb-Sr and Pb-Pb dating of silicic carbonates from the early Archaean Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , 1998, 92, 129-144.	1.2	51
7	Influence of anthropogenic activity on the lead isotope signature of Thau Lake sediments (southern) Tj ETQq1 1 0.784314 rgBT /Over 1.4 26	1.4	26
8	Wind directions of volcanic ash-charged clouds in Ecuador – implications for the public and flight safety. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 242-256.	2.0	43
9	Deformed A-type granites in northern Malawi, east-central Africa: pre- or syntectonic?. <i>Journal of the Geological Society</i> , 1999, 156, 695-714.	0.9	36
10	Economic risk assessment of Cotopaxi volcano, Ecuador, in case of a future lahar emplacement. <i>Natural Hazards</i> , 2017, 85, 605-618.	1.6	34
11	Crustal age domains in the Kibaran belt of SW-Uganda: Combined zircon geochronology and Sm-Nd isotopic investigation. <i>Journal of African Earth Sciences</i> , 2008, 51, 4-20.	0.9	33
12	Tracing the source of gypsum in New Caledonian soils by REE contents and Sr, Sr isotopic compositions. <i>Chemical Geology</i> , 1998, 145, 61-71.	1.4	32
13	Distributed System as Internet of Things for a New Low-Cost, Air Pollution Wireless Monitoring on Real Time. , 2015, , .		31
14	Climate Change according to Ecuadorian academics – Perceptions versus facts. <i>Granja</i> , 2020, 31, 21-46.	0.1	30
15	Sm-Nd dating of Fig Tree clay minerals of the Barberton greenstone belt, South Africa. <i>Geology</i> , 1994, 22, 199.	2.0	29
16	Widespread relics of high-pressure metamorphism confirm major terrane accretion in Ecuador: a new example from the Northern Andes. <i>International Geology Review</i> , 2012, 54, 67-80.	1.1	29
17	Differentiated hydrothermal and meteoric alterations of the Lueshe carbonatite complex (Democratic) Tj ETQq1 1 0.784314 rgBT /Over 1.4 28	1.4	28
18	Two independent real-time precursors of the 7.8 Mw earthquake in Ecuador based on radioactive and geodetic processes – Powerful tools for an early warning system. <i>Journal of Geodynamics</i> , 2019, 126, 12-22.	0.7	27

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19	From Monolithic Systems to Microservices: A Comparative Study of Performance. Applied Sciences (Switzerland), 2020, 10, 5797.	1.3	26
20	Fumarole/plume and diffuse CO ₂ emission from Sierra Negra caldera, Galapagos archipelago. Bulletin of Volcanology, 2012, 74, 1509-1519.	1.1	25
21	K-Ar dating of white micas from the Ventersdorp Contact Reef of the Witwatersrand Basin, South Africa: timing of post-depositional alteration. Mineralogy and Petrology, 1999, 66, 149-170.	0.4	23
22	Crystallization Conditions of Fundamental Particles From Mixed-layer Illite-Smectite of Bentonites Based on Isotopic Data (K-Ar, Rb-Sr and $\delta^{18}\text{O}$). Clays and Clay Minerals, 2003, 51, 664-674.	0.6	21
23	Thyroid Cancer in Ecuador, a 16% years population-based analysis (2001-2016). BMC Cancer, 2019, 19, 294.	1.1	21
24	Mineralogical, geochemical (REE), and isotopic (K-Ar, Rb-Sr, $\delta^{18}\text{O}$) evolution of the clay minerals from faulted, carbonate-rich, passive paleomargin of southeastern Massif Central, France. Journal of Sedimentary Research, 1997, 67, 923-934.	0.8	20
25	Generating the Baseline in the Early Detection of Bud Rot and Red Ring Disease in Oil Palms by Geospatial Technologies. Remote Sensing, 2020, 12, 3229.	1.8	20
26	Causes and consequences of the sinkhole at El Trábol of Quito, Ecuador – implications for economic damage and risk assessment. Natural Hazards and Earth System Sciences, 2016, 16, 2031-2041.	1.5	16
27	Detrital-zircon geochronology and provenance of the El Oro Metamorphic Complex, Ecuador: Geodynamic implications for the evolution of the western Gondwana margin. Journal of South American Earth Sciences, 2019, 90, 520-539.	0.6	15
28	Colored Microbial Coatings in Show Caves from the Galapagos Islands (Ecuador): First Microbiological Approach. Coatings, 2020, 10, 1134.	1.2	15
29	Seismically Induced Soil Liquefaction and Geological Conditions in the City of Jama due to the M7.8 Pedernales Earthquake in 2016, NW Ecuador. Geosciences (Switzerland), 2021, 11, 20.	1.0	15
30	Modeling of the ecological niches of the anopheles spp in Ecuador by the use of geo-informatic tools. Spatial and Spatio-temporal Epidemiology, 2017, 21, 1-11.	0.9	14
31	Wireless communication system for the transmission of thermal images from a UAV. , 2017, , .		14
32	A NDVI Analysis Contrasting Different Spectrum Data Methodologies Applied in Pasture Crops Previous Grazing – A Case Study from Ecuador. , 2018, , .		14
33	Characterization of seismogenic crustal faults in the Gulf of Guayaquil, Ecuador. Andean Geology, 2019, 46, 66.	0.2	14
34	Evaluation of the susceptibility to landslides through diffuse logic and analytical hierarchy process (AHP) between Macas and Riobamba in Central Ecuador. , 2020, , .		14
35	Synthesis of Iron, Zinc, and Manganese Nanofertilizers, Using Andean Blueberry Extract, and Their Effect in the Growth of Cabbage and Lupin Plants. Nanomaterials, 2022, 12, 1921.	1.9	14
36	Chemical variations in clay minerals of the Archaean Barberton Greenstone Belt (South Africa). Precambrian Research, 1996, 79, 195-207.	1.2	12

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37	Effect of thermal maturation on the K ⁴⁰ Ar, Rb ⁸⁷ Sr and REE systematics of an organic-rich New Albany Shale as determined by hydrous pyrolysis. <i>Chemical Geology</i> , 2006, 234, 169-177.	1.4	12
38	A Low-Cost IoT Application for the Urban Traffic of Vehicles, Based on Wireless Sensors Using GSM Technology. , 2016, , .		12
39	Stability assessment of volcanic lava tubes in the Galápagos using engineering rock mass classifications and an empirical approach. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 89, 55-67.	2.6	12
40	Towards a Real-Time Air Pollution Monitoring Systems Implemented using Wireless Sensor Networks: Preliminary Results. , 2018, , .		12
41	Comparative Determination of the Probability of Landslide Occurrences and Susceptibility in Central Quito, Ecuador. , 2018, , .		12
42	Phishing Attacks: Detecting and Preventing Infected E-mails Using Machine Learning Methods. , 2019, , .		12
43	A Mineralogical, Chemical and Isotopic Investigation of Shales from the Barberton Greenstone Belt, South Africa, To Constrain Source Materials and Post-Deposition Evolution. <i>South African Journal of Geology</i> , 2015, 118, 389-410.	0.6	11
44	Observation of the Catfish <i>Chaetostoma microps</i> Climbing in a Cave in Tena, Ecuador. <i>Subterranean Biology</i> , 0, 15, 29-35.	5.0	11
45	Numerical Probability Modeling of Past, Present and Future Landslide Occurrences in Northern Quito, Ecuador. , 2018, , .		11
46	Livelihood Capitals, Income Inequality, and the Perception of Climate Change: A Case Study of Small-Scale Cattle Farmers in the Ecuadorian Andes. <i>Sustainability</i> , 2022, 14, 5028.	1.6	11
47	Multimethod (K-Ar, Rb-Sr, Sm-Nd) dating of bentonite minerals from the eastern United States. <i>Basin Research</i> , 1998, 10, 261-270.	1.3	10
48	Capture and processing of geospatial data with laser scanner system for 3D modeling and virtual reality of Amazonian Caves. , 2017, , .		10
49	Plant Diversity and Composition Changes along an Altitudinal Gradient in the Isolated Volcano Sumaco in the Ecuadorian Amazon. <i>Diversity</i> , 2020, 12, 229.	0.7	10
50	New records and new species of springtails (Collembola: Entomobryidae, Paronellidae) from lava tubes of the Galápagos Islands (Ecuador). <i>Subterranean Biology</i> , 0, 17, 77-120.	5.0	10
51	Vesuvianite in high-pressure-metamorphosed oceanic lithosphere (Raspas Complex, Ecuador) and its role for transport of water and trace elements in subduction zones. <i>European Journal of Mineralogy</i> , 2013, 25, 193-219.	0.4	9
52	Multi-player Educational Video Game over Cloud to Stimulate Logical Reasoning of Children. , 2014, , .		9
53	On the development of an electronic invoicing solution to integrate SMEs with a tax-collection government-platform. , 2017, , .		9
54	An Innovative Fog Catcher System Applied in the Andean Communities of Ecuador. <i>Transactions of the ASABE</i> , 2017, 60, 1917-1923.	1.1	9

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55	Biological Impact of Exposure to Extremely Fine-Grained Volcanic Ash. <i>Journal of Nanotechnology</i> , 2018, 2018, 1-12.	1.5	9
56	Caves and karst of Ecuador – state-of-the-art and research perspectives. <i>Physical Geography</i> , 2019, 40, 28-51.	0.6	9
57	Estimation of Biogas Generated in Two Landfills in South-Central Ecuador. <i>Atmosphere</i> , 2021, 12, 1365.	1.0	9
58	Multitemporal Analysis as a Non-Invasive Technology Indicates a Rapid Change in Land Use in the Amazon: The Case of the ITT Oil Block. <i>Environments - MDPI</i> , 2021, 8, 139.	1.5	9
59	Playful and interactive environment-based augmented reality to stimulate learning of children. , 2016, , .		8
60	Data Mining model in the discovery of trends and patterns of intruder attacks on the data network as a public-sector innovation. , 2017, , .		8
61	Integration of IT frameworks for the management of information security within industrial control systems providing metrics and indicators. , 2017, , .		8
62	Phishing Attack Detection: A Solution Based on the Typical Machine Learning Modeling Cycle. , 2019, , .		8
63	Application of Remote Sensing Techniques in the Estimation of Forest Biomass of a Recreation Area by UAV and RADAR Images in Ecuador. , 2020, , .		8
64	Possible effects of potential lahars from Cotopaxi volcano on housing market prices. <i>Journal of Applied Volcanology</i> , 2020, 9, .	0.7	8
65	Geoid undulation modeling through the Cokriging method – A case study of Guayaquil, Ecuador. <i>Geodesy and Geodynamics</i> , 2021, 12, 356-367.	1.0	8
66	Multitemporal Evaluation of the Recent Land Use Change in Santa Cruz Island, Galapagos, Ecuador. <i>Communications in Computer and Information Science</i> , 2020, , 519-534.	0.4	8
67	Pb – Pb age, stable isotope and chemical composition of Archaean magnesite, Barberton Greenstone Belt, South Africa. <i>Journal of the Geological Society</i> , 2010, 167, 943-952.	0.9	7
68	An unsupervised K-means based clustering method for geophysical post-earthquake diagnosis. , 2017, , .		7
69	Dimensional data model for early alerts of malicious activities in a CSIRT. , 2017, , .		7
70	Ethics, Policy, and Risk Assessment of the Cotopaxi Volcanic Crisis in Ecuador – Vulnerable Society Versus Unprepared Volcanic Monitoring Staff and Authorities. <i>The Latin American Studies Book Series</i> , 2018, , 153-170.	0.1	7
71	Data Analytics on Real-Time Air Pollution Monitoring System Derived from a Wireless Sensor Network. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 57-67.	0.5	7
72	Volcanic Ash as a Precursor for SARS-CoV-2 Infection Among Susceptible Populations in Ecuador: A Satellite Imaging and Excess Mortality-Based Analysis. <i>Disaster Medicine and Public Health Preparedness</i> , 2021, , 1-13.	0.7	7

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73	Organic geochemistry and mineralogy suggest anthropogenic impact in speleothem chemistry from volcanic show caves of the Galapagos. <i>IScience</i> , 2022, 25, 104556.	1.9	7
74	Methodological approach for the estimation of a new velocity model for continental Ecuador. <i>Open Geosciences</i> , 2017, 9, .	0.6	6
75	An Integral Model to Provide Reactive and Proactive Services in an Academic CSIRT Based on Business Intelligence. <i>Systems</i> , 2017, 5, 52.	1.2	6
76	Cybercrime in Ecuador, an exploration, which allows to define national cybersecurity policies. , 2018, , .		6
77	Determination of altitudes of the three main Ecuadorian summits through GNSS positioning. <i>Geodesy and Geodynamics</i> , 2022, 13, 343-351.	1.0	6
78	Sustainable Treatment Techniques for Emerging Pollutantsâ€™The Case of Personal Hygiene Products. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6330.	1.3	6
79	Cave dwelling Onychophora from a Lava Tube in the Galapagos. <i>Subterranean Biology</i> , 0, 15, 1-10.	5.0	5
80	A methodological proposal concerning to the management of information security in Industrial Control Systems. , 2016, , .		5
81	Index Relationship of Vegetation with the Development of a Quinoa Crop (<i>Chenopodium quinoa</i>) in its First Phenological Stages in Central Ecuador Based on GIS Techniques. , 2020, , .		5
82	Predation of <i>Desmodus rotundus</i> Geoffroy, 1810 (Phyllostomidae, Chiroptera) by <i>Epicrates cenchria</i> (Linnaeus, 1758) (Boidae, Reptilia) in an Ecuadorian Cave. <i>Subterranean Biology</i> , 0, 19, 41-50.	5.0	5
83	Proposal of an Initial Environmental Management and Land Use for Critical Cemeteries in Central Ecuador. <i>Sustainability</i> , 2022, 14, 1577.	1.6	5
84	Smart City Planning Based on Landslide Susceptibility Mapping Using Fuzzy Logic and Multi-criteria Evaluation Techniques in the City of Quito, Ecuador. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 89-103.	0.3	5
85	Assessing Susceptibility to Soil Liquefaction Using the Standard Penetration Test (SPT)â€™A Case Study from the City of Portoviejo, Coastal Ecuador. <i>Land</i> , 2022, 11, 463.	1.2	5
86	Silicate diagenesis in deep-sea sediments from the Tonga forearc (SW Pacific): a strontium and Rare Earth Elements signature. <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 2000, 23, 281-296.	0.7	4
87	K-Ar AND Rb-Sr DATING OF NANOMETER-SIZED SMECTITE-RICH MIXED LAYERS FROM BENTONITE BEDS OF THE CAMPOS BASIN (RIO DE JANEIRO STATE, BRAZIL). <i>Clays and Clay Minerals</i> , 2020, 68, 446-464.	0.6	4
88	Simulation of Vehicle Transit During an Eventual Eruption of the Cotopaxi Volcano in the Valle de los Chillos, Central Ecuador. <i>Communications in Computer and Information Science</i> , 2020, , 391-405.	0.4	4
89	Territorial, Population and Economic Analysis of a Potential Volcanic Disaster in the City of Latacunga, Central Ecuador Based on GIS Techniques â€™ Implications and Potential Solutions. <i>Communications in Computer and Information Science</i> , 2020, , 549-563.	0.4	4
90	Determining the Effects of Nanonutrient Application in Cabbage (<i>Brassica oleracea</i> var. capitata L.) Using Spectrometry and Biomass Estimation with UAV. <i>Agronomy</i> , 2022, 12, 81.	1.3	4

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91	A proposal of an entity name recognition algorithm to integrate governmental databases. , 2016, , .		3
92	Software-based computing platform as an experimental topology assembled to detect and mitigate DDoS attacks using virtual environments. , 2016, , .		3
93	A Container Orchestration Development that Optimizes the Etherpad Collaborative Editing Tool through a Novel Management System. Electronics (Switzerland), 2020, 9, 828.	1.8	3
94	Determination of the Natural Plant Coverage of the Eloy Alfaro Canton Based on GIS, NW Ecuador. , 2020, , .		3
95	Malware Security Evasion Techniques: An Original Keylogger Implementation. Advances in Intelligent Systems and Computing, 2021, , 375-384.	0.5	3
96	Origin of color variations of thin, nano-sized layers of volcanic cinder from the Sierra Negra Volcano of the Galapagos Islands. Uniciencia, 2021, 35, 1-13.	0.1	3
97	Fluctuations of Caspian Sea level: Beyond climatic variations?. Geology, 2000, 28, 1015-1018.	2.0	3
98	The Armed Forces as a Immediate Response State Institution and Its Participation as an Articulador in the Risk Management in Ecuador. Smart Innovation, Systems and Technologies, 2020, , 545-554.	0.5	3
99	Modeling of the spatial distribution of the vector Aedes Aegypti, transmitter of the Zika Virus in continental Ecuador by the application of GIS tools. Revista Bionatura, 2020, 5, 1314-1327.	0.1	3
100	Excess Mortality Data Analysis of COVID-19 Infections and Fatalities in Ecuador. Uniciencia, 2022, 36, 1-10.	0.1	3
101	Determination of Empirical Environmental Indices for the Location of Cemeteries – An Innovative Proposal for Worldwide Use. Sustainability, 2022, 14, 6284.	1.6	3
102	Removal of METH through Tertiary or Advanced Treatment in a WWTP. Water (Switzerland), 2022, 14, 1807.	1.2	3
103	Intelligent agents, voice and facial recognition applied in videogames in order to stimulate cognitive development of children – A case study of Tictactoe in 3D. , 2017, , .		2
104	Solar Energy Potential in Ecuador. , 2018, , .		2
105	Predictive models to estimate sediment volumes deposited by debris flows (Vargas state, Venezuela): an adjustment of multivariate statistical techniques. Environmental Earth Sciences, 2019, 78, 1.	1.3	2
106	The use of GIS in the Predictive Ecological Niche Modeling of Vector Species of the American Trypanosomiasis Disease (Chagas), in Ecuador. , 2020, , .		2
107	SHOCK METAMORPHISM IN VOLCANIC ROCK DUE TO THE IMPACT OF THE MIGUIR-CAJAS METEORITE IN 1995 AND ITS IMPORTANCE FOR ECUADOR. Geojournal of Tourism and Geosites, 2021, 35, 315-321.	0.4	2
108	Subsidence at the “Trábol” of Quito, Ecuador: an indicator for future disasters?. Proceedings of the International Association of Hydrological Sciences, 0, 372, 151-155.	1.0	2

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109	Application of Quality Tools for Evaluation of the Use of Geo-Information in Various Municipalities of Ecuador. Communications in Computer and Information Science, 2020, , 420-433.	0.4	2
110	Evaluation of the Surface Temperature Applied in Aquaculture Based on Satellite Images in Coastal Ecuador. Communications in Computer and Information Science, 2020, , 572-586.	0.4	2
111	Compositions chimiques et isotopiques d'eaux de la mer Caspienne et de tributaires de la région de Makachkala (Russie): premières données sur le fonctionnement d'un système endoréique particulier. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =. 1998. 327. 17-24.	0.2	1
112	Interactive geo-location based service application as pervasive computing through mobile devices. , 2017, , .		1
113	Software constraints for caves' virtual environments modeling. , 2017, , .		1
114	Software Application to Evaluate the Complexity Theory of the RSA and Elliptic Curves Asymmetric Algorithms. , 2017, , .		1
115	Software-Based Platform for Education and Training of DDoS Attacks Using Virtual Networks. , 2017, , .		1
116	Applicability of Cybersecurity Standards in Ecuador - A Field Exploration. Smart Innovation, Systems and Technologies, 2018, , 27-40.	0.5	1
117	Composition and provenance analysis of beach sands in an almost isolated sedimentary system – A field study of the Galápagos Archipelago. Numerische Mathematik, 2021, 321, 888-906.	0.7	1
118	Use of the Heuristic Model and GIS to Zone Landslide Hazards in the Mira River Basin, Ecuador. Communications in Computer and Information Science, 2020, , 243-257.	0.4	1
119	Tectonic-thermal constraints on the Pb-Zn ore deposits from southeastern French Central Massif by K-Ar and Pb-Pb dating of illite. Bulletin Mineralogie Petrologie, 2020, 28, 307-321.	0.4	1
120	COVID-19: Pandemic in Ecuador: a health disparities perspective. Revista De Salud Publica, 2020, 22, 1-5.	0.0	1
121	Determination of the Influence of an Absorbing Silica Gel in Concrete. Lecture Notes in Electrical Engineering, 2022, , 18-27.	0.3	1
122	Vesuvianite in high-pressure-metamorphosed oceanic lithosphere (Raspas Complex, Ecuador) and its role for transport of water and trace elements in subduction zones. European Journal of Mineralogy, 2014, 25, 1039-1039.	0.4	0
123	Corroboration that the Mc1r Gly/Ser mutation correlates with the phenotypic expression of pigmentation in <i>Astroblepus</i> . Developmental Biology, 2018, 441, 311-312.	0.9	0
124	Management Support Systems Model for Incident Resolution in FinTech based on Business Intelligence. , 2021, , .		0
125	Climate Governance and Sustainable Development: A Sight to the Intermediate and Border Cities of Ecuador. , 2021, , 646-655.		0
126	Sequential leaching of silicified Archaean carbonates: A Rb-Sr, Sm-Nd and Pb-Pb isotopic contribution to their tectonic-thermal history (Kapaavaal Craton, South Africa). Precambrian Research, 2021, 365, 106393.	1.2	0

#	ARTICLE	IF	CITATIONS
127	Greenhouse Gas Emissions from Subsistence Dairy Livestock in Rural Livelihoods in the Northern Andes of Ecuador. , 2021, , 65-74.		0
128	Validation of the GPS leveling method through the gradient analysis of the geoidal wave. Case study of Ecuador.. , 2021, 62, 316-329.		0
129	Innovation with Lagoon Sediments for Soil Conservation and Sustainable Intensification in the Ecuadorian Andes. Biology and Life Sciences Forum, 2021, 3, .	0.6	0
130	Smart City Planning with Geomatic Modeling of Lahar Evacuation Routes in the Northern Populated Area of Cotopaxi Volcano, Ecuador. Lecture Notes in Electrical Engineering, 2022, , 74-88.	0.3	0
131	Contrasting Effects of Air Pollution Assessment in two Areas of the Quito Metropolitan District, Ecuador. Granja, 2022, 36, .	0.1	0