

## Boletín de Novedades Geocientíficas N° 5, Mayo 2020

### Artículos de Revistas

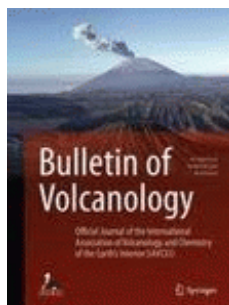


**Large debris flows in Chosica, Lima, Peru: the application of hydraulic infrastructure for erosion control and disaster prevention**

Villacorta Chambi, Sandra Paula; Evans, Kenneth G.; Nakatani, Kana; Villanueva, Ignacio

Australian Journal of Earth Sciences, vol. 67, n. 3, pp. 425-436, 2020

[Ver artículo](#)

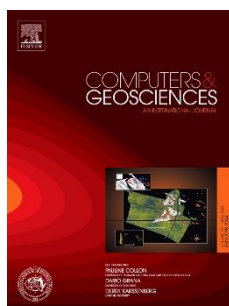


**Two-mica rhyolitic tephra in the East Pisco Basin (Peru): new age and dispersion constraints for the eruptions of the Eastern Cordillera of Central Andes**

Bosio, Giulia; Gioncada, Anna; Di Celma, Claudio; Villa, Igor Maria; Pichavant, Michel, et al.

Bulletin of Volcanology, vol. 82, n. 6, art. 42, 22 p June 2020

[Ver artículo](#)



**Computers &  
 Geosciences**

**Compressibility predictions using digital thin-section images of rocks**

Das, Vishal; Saxena, Nishank; Hofmann, Ronny

vol. 139, art. 104482, 7 p., June 2020

[Ver artículo](#)

**Ontology-driven representation of knowledge for geological maps**

Mantovani, Alizia; Piana, Fabrizio; Lombardo, Vincenzo

vol. 139, art. 104446, 14 p., June 2020

[Ver artículo](#)

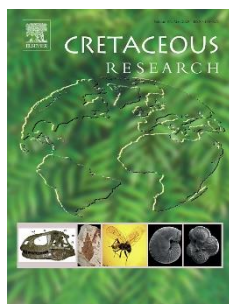
**Evaluation of machine learning methods for lithology classification using geophysical data**

Bressan, Thiago Santi; Kehl de Souza, Marcelo; Girelli, Tiago J.; Chemale Junior, Farid

vol. 139, art. 104475, 18 p., June 2020

[Ver artículo](#)

---



Cretaceous Research

**Influence of taphonomy on histological evidence for vertebral pneumaticity in an Upper Cretaceous titanosaur from South America**

Aureliano, Tito; Ghilardi, Aline Marcele; Silva Junior, Julian C.G.; Martinelli, Agustín G.; Ribeiro, Luiz Carlos Borges, et al.

vol. 108, art. 104337, 8 p. April 2020

[Ver artículo](#)

**A new megafloora (leaves and reproductive structures) from the Huancané Formation (Lower Cretaceous), Peru**

Martínez, Leandro C.A.; Pacheco Huacallo, Edgar; Pujana, Roberto R.; Padula, Horacio

vol. 110, art. 104426, 14 p. June 2020

[Ver artículo](#)

**New ctenochasmatid pterosaur record for Gondwana: discovery in the Lower Cretaceous continental deposits of the Atacama Desert, northern Chile**

Alarcón Muñoz, Jhonatan; Soto Acuña, Sergio; Codorniú, Laura; Rubilar Rogers, David; Sallaberry, Michel A., et al.

vol. 110, art. 104378, 16 p. June 2020

[Ver artículo](#)

---



Earth and Planetary Science Letters

**Rapid localized flank inflation and implications for potential slope instability at Tungurahua volcano, Ecuador**

Hickey, James; Clark, Marin Kristen; Zekkos, Dimitrios P.; West, A. Joshua

vol. 534, art. 116104, 10 p. March 2020

[Ver artículo](#)

**Characteristic landslide distributions: An investigation of landscape controls on landslide size**

Medwedeff, William G.; Clark, Marin Kristen; Zekkos, Dimitrios P.; West, A. Joshua

vol. 539, art. 116203, 13 p. June 2020

[Ver artículo](#)

**Diagnosing an ancient shallow-angle subduction event from Cenozoic depositional and deformational records in the central Andes of southern Peru**

Perez, Nicholas David; Kristina G. Levine

vol. 541, art. 116263, 11 p., July 2020

[Ver artículo](#)

---



**Earth-Science  
Reviews**

**Lahars and debris flows: Characteristics and impacts**

Thouret, Jean-Claude; Antoine, Solene; C. Magill, C. Ollier

vol. 201, art. 103003, 42 p., February 2020

[Ver artículo](#)

**Time in the Rock: A field guide to interpreting past events and processes from siliciclastic stratigraphy**

Holbrook, John M.; Miall, Andrew D.

vol. 203, art. 103121, 23 p., April 2020

[Ver artículo](#)

---



**Frontiers in  
Earth Science**

**Hydroclimate of the Andes. Part I: Main climatic features**

Espinoza Villar, Jhan Carlo; Garreaud, René D.; Poveda, Germán; Arias, Paola A.; Molina Carpio, Jorge, et al.

vol. 8, art. 64, 20 p. March 2020

[Ver artículo](#)

**Observed and projected hydroclimate changes in the Andes**

Pabón Caicedo, José Daniel; Arias, Paola A.; Carril, Andrea F.; Espinoza Villar, Jhan Carlo; Fita Borrel, Lluís, et al.

vol. 8, art. 61, 29 p. March 2020

[Ver artículo](#)

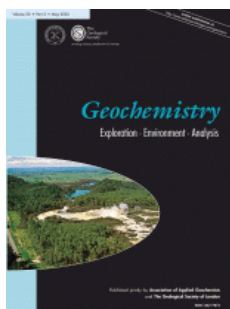
**Climatological and hydrological observations for the South American Andes: in situ stations, satellite, and reanalysis data set**

Condom, Thomas; Martínez, Rodney; Pabón, José Daniel; Costa, Felipe; Pineda, Luis, et al.

vol. 8, art. 92, 20 p. April 2020

[Ver artículo](#)

---



**Geochemistry:  
Exploration, Environment,  
Analysis**

**Recent advances in the application of mineral chemistry to exploration for porphyry copper–gold–molybdenum deposits: detecting the geochemical fingerprints and footprints of hypogene mineralization and alteration**

Cooke, David R.; Agnew, Paul; Hollings, Pete; Baker, Michael; Chang, Zhaoshan, et al.

vol. 20, n. 2, pp. 176-188, May 2020

[Ver artículo](#)

**Advances in the use of isotopes in geochemical exploration: instrumentation and applications in understanding geochemical processes**

Kyser, T. Kurtis; Leybourne, Matthew I.; Layton Matthews, Daniel

vol. 20, n. 2, pp. 199-204, May 2020

[Ver artículo](#)

**New developments in field-portable geochemical techniques and on-site technologies and their place in mineral exploration**

Lemière, Bruno; Uvarova, Yulia A.

vol. 20, n. 2, pp. 205-216, May 2020

[Ver artículo](#)



**Geochimica et  
Cosmochimica Acta**

**Speciation of arsenic and antimony in basaltic magmas**

Maciag, Bryan J.; Brenan, James M.

vol. 276, Pages 198-218, May 2020

[Ver artículo](#)

**The origin of continental carbonates in Andean salars: A multi-tracer geochemical approach in Laguna Pastos Grandes (Bolivia)**

Muller, Elodie; Gaucher, Eric C.; Durlot, Christophe; Moquet, Jean-Sébastien; Moreira, Manuel, et al.

vol. 279, Pages 220-237, June 2020

[Ver artículo](#)



***Dendrogeomorphic reconstruction of floods in a dynamic tropical river***

Quesada Román, Adolfo; Ballesteros Cánovas, Juan Antonio; Granados Bolaños, Sebastián; Birkel, Christian; Stoffel, Markus

Geomorphology, vol. 359, art. 107133, 9 p., June 2020

[Ver artículo](#)



***Evaluating rockfall risk: some critical aspects***

Scavia, Claudio; Barbero, Mónica; Castelli, Marta; Marchelli, Magdalena; Peila, Daniele, et al.

Geosciences (Suiza), vol. 10, n. 3, art. 98, 29 p., March 2020

[Ver artículo](#)

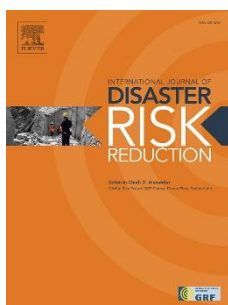


***The missing link of Rodinia breakup in western South America: A petrographical, geochemical, and zircon Pb-Hf isotope study of the volcanosedimentary Chilla beds (Altiplano, Bolivia)***

Bahlburg, Heinrich

Geosphere, vol. 16, n. 2, pp. 619-645, April 2020

[Ver artículo](#)



**International Journal  
of Disaster Risk  
Reduction**

***Root causes of recurrent catastrophe: The political ecology of El Niño-related disasters in Peru***

French, Adam Kerry; Mechler, Reinhard; Arestegui, Miguel; MacClune, Karen; Cisneros Agama, Abel

vol. 47, art. 101539, 14 p., August 2020

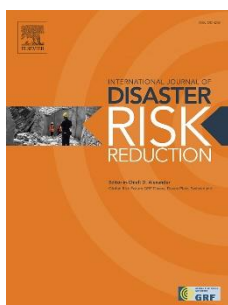
[Ver artículo](#)

***The Regional Management Risk Plan. Knowledge, scenarios and prevention projects in a regional context***

Di Ludovico, Donato; Di Lodovico, Luana

vol. 45, art. 101465, 13 p. May 2020

[Ver artículo](#)



**International Journal  
of Disaster Risk  
Reduction**

**Tomorrow's disasters – Embedding foresight principles into disaster risk assessment and treatment**

Riddell, Graeme A.; van Delden, Hedwig; Maier, Holger R.; Zecchin, Aaron C.

vol. 45, art. 101437, 14 p. May 2020

[Ver artículo](#)

**Disasters as an opportunity for improved environmental conditions**

Davidsson, Åsa

vol. 48, art. 101590, 13 p. September 2020

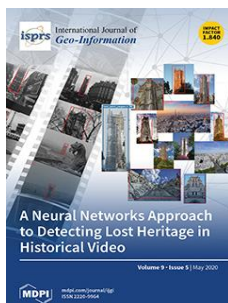
[Ver artículo](#)

**An interdisciplinary approach to identify zones vulnerable to earthquakes**

Izquierdo Horna, Luis; Kahhat, Ramzy

vol. 48, art. 101592, 10 p. September 2020

[Ver artículo](#)



**Morphometric prioritization, fluvial classification, and hydrogeomorphological quality in high andean livestock micro-watersheds in northern Peru**

Rojas Briceño, Nilton B.; Barboza Castillo, Elgar; Gamarra Torres, Oscar Andrés; Oliva, Manuel; Leiva Tafur, Damaris, et al.

ISPRS International Journal of Geo-Information, vol. 9, n. 5, art. 305, 27 p., May 2020

[Ver artículo](#)



**Geodata science and geochemical mapping**

Zuo, Renguang; Xiong, Yihui

Journal of Geochemical Exploration, vol. 209, art. 106431, 9 p. February 2020

[Ver artículo](#)





Journal of South American  
Earth Sciences

***Insight into the Katari-Lago Menor Basin aquifer, Lake Titicaca-Bolivia, inferred from geophysical (TDEM), hydrogeological and geochemical data***

Flores Avilés, Gabriela Patricia; Descloitres, Marc; Duwig, Céline; Rossier, Yvan; Spadini, Lorenzo, et al.

vol. 99, art. 102479, 21 p., April 2020

[Ver artículo](#)

***Detecting neotectonics in the lowlands of Amazonia through the analysis of river long profiles***

Alves, Fabio Corrêa; Rossetti, Dilce de Fátima; Valeriano, Márcio de Morisson

vol. 100, art. 102553, 11 p., June 2020

[Ver artículo](#)

***Diagenesis of the Pennsylvanian –Lower Permian Copacabana Formation, western Bolivian Altiplano***

Nina, Lidia M.; Sial, Alcides Nóbrega; Barbosa, José Antonio; Neumann, V.H.M.; Bark, Glenn, et al.

vol. 100, art. 102540, 14 p., June 2020

[Ver artículo](#)

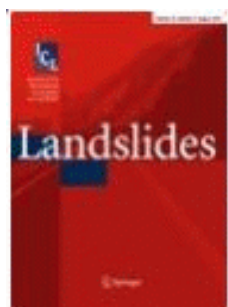


***Scaphokogia totajpe, sp. nov., a new bulky-faced pygmy sperm whale (Kogiidae) from the late Miocene of Peru***

Benites Palomino, Aldo; Vélez Juarbe, Jorge; Salas Gismondi, Rodolfo; Urbina Schmitt, Mario

Journal of Vertebrate Paleontology, art. e1728538, 18 p. April 2020

[Ver artículo](#)



***Application of hydrological model simulations in landslide predictions***

Zhao, Binru; Dai, Qiang; Han, Dawei; Zhang, Jun; Zhuo, Lu; Berti, Matteo

Landslides, vol. 17, n. 4, pp. 877–891, April 2020

[Ver artículo](#)



***The story of rare earth elements (REEs): Occurrences, global distribution, genesis, geology, mineralogy and global production***

Dushyantha, Nimila; Batapola, Nadeera; Ilankoon, I.M.S.K.; Rohitha, Sudath; Premasiri, Ranjith, et al.

Ore Geology Reviews, vol. 122, art. 103521, 17 p., July 2020

[Ver artículo](#)



***Distribution of archaeological sites of Ancient Peru is linked to climatology and natural vegetation***

Galán de Mera, Antonio; Linares Perea, Eliana; Martos Rodríguez, Fredy; Montoya Quino, Juan; Rodríguez Zegarra, Carla, et al.

Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology, 14 p., April 2020

[Ver artículo](#)



***Megathrust locking and viscous mantle flow Induce continental shortening in Central Andes***

Shi, Fuqiang; Li, Shaoyang; Moreno, Marcos

Pure and Applied Geophysics, 12 p., January 2020

[Ver artículo](#)



***Timing, kinematics, and displacement of the Taltal fault system, northern Chile: Implications for the Cretaceous tectonic evolution of the Andean margin***

Mavor, S.P.; Singleton, J.S.; Gomila, Rodrigo; Heuser, G.; Seymour, N.M., et al.

Tectonics, vol. 39, n. 2, art. e2019TC005832, 24 p., February 2020

[Ver artículo](#)