



Boletín de Novedades Geocientíficas N° 9, Setiembre 2020

ARTICULOS DE REVISTAS



Structural and non-structural statistical methods: implications for delineating geochemical anomalies

Roshanravan, Bijan; Tabatabaei, Seyed Hasan; Kreuzer, Oliver P.; Moini, Hamid; Parsa, Mohammad

Applied Earth Science, vol. 129, n. 3, 2020, pp. 111-121

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Losses and damages connected to glacier retreat in the Cordillera Blanca, Peru

Motschmann, Alina; Huggel, Christian; Carey, Mark; Moulton, Holly; Walker-Crawford, Noah; Muñoz, Randy

Climatic Change, July 2020, 22 p.

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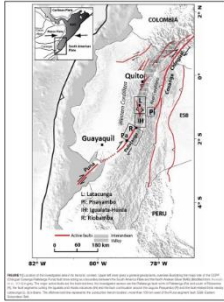


Field data reveal that the transport probability of clasts in Peruvian and Swiss streams mainly depends on the sorting of the grains

Schlunegger, Fritz; Delunel, Romain; Garefalakis, Philippos

Earth Surface Dynamics, vol. 8, n. 3, August 2020, pp. 717-728

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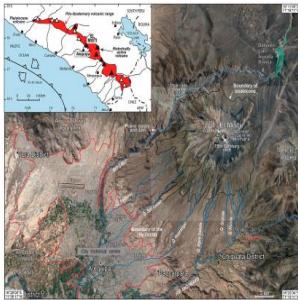


Active tectonics and earthquake geology along the Pallatanga fault, Central Andes of Ecuador

Baize, Stéphane; Audin, Laurence; Alvarado, Alexandra P.; Jomard, Hervé; Bablon, Mathilde

Frontiers in Earth Science, vol. 8, art. 193, June 2020, 21 p.

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New insights into the 2070calyrBP pyroclastic currents at El Misti volcano (Peru) from field investigations, satellite imagery and probabilistic modeling

Charbonnier, Sylvain J.; Thouret, Jean-Claude; Gueugneau, Valentin; Constantinescu, Robert

Frontiers in Earth Science, vol. 8, art. 557788, September 2020, 20 p.

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Evolution and sustainability of groundwater use from the Ica aquifers for the most profitable agriculture in Peru

Fernández Escalante, Enrique; Foster, Stephen; Navarro Benegas, Roberto

Hydrogeology Journal, June 2020, 12 p.

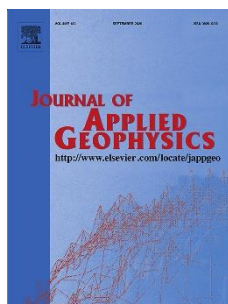
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Global distribution of carbonate rocks and karst water resources

Goldscheider, Nico; Chen, Zhao; Auler, Augusto S.; Bakalowicz, Michel; Broda, Stefan

Hydrogeology Journal, vol. 28, n. 5, August 2020, pp. 1661-1677

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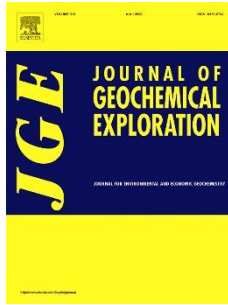


Detailed magnetotelluric study of the northern part of Subandean fold belt, Bolivia

Palshin, Nikolay; Giraudo, Raúl E.; Yakovlev, Denis; Zaytsev, Sergey; Aleksanova, Elena, et al.

Journal of Applied Geophysics, vol. 181, art. 104136, October 2020, 18 p.

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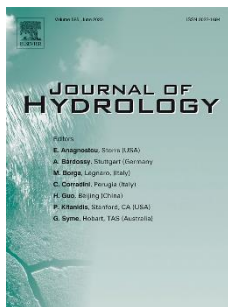


Quality reference values for heavy metals in soils developed from basic rocks under tropical conditions

Bocardi, Juliane Maria Bergamin; Pletsch, Adelmo Lowe; Melo, Vander Freitas; Quinaia, Sueli Pércio

Journal of Geochemical Exploration, vol. 217, art. 106591, October 2020, 12 p.

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Journal of Hydrology

A hydrology-process based method for correlating debris flow density to rainfall parameters and its application on debris flow prediction

Long, Kui; Zhang, Shaojie; Wei, Fangqiang; Hu, Kaiheng; Zhang, Qun; Luo, Yu

vol. 589, art. 125124, October 2020, 10 p.

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Groundwater system and climate change: Present status and future considerations

Amanambu, Amobichukwu C.; Obarein, Omon A.; Mossa, Joann; Li, Lanhai; Ayeeni, Shamusideen S., et al.

vol. 589, art. 125163, October 2020, 24 p.

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Identification of hydrogeochemical processes and transport paths of a multi-aquifer system in closed mining region

Zhang, Haitao; Xu, Guangquan; Zhan, Hongbin; Chen, Xiaoqing; Liu, Mancai; Wang, Minhua

vol. 589, art. 125344, October 2020, 14 p.

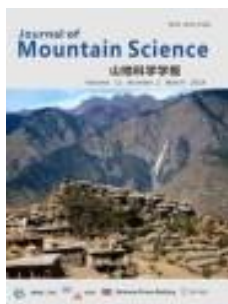
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Induced polarization as a tool to characterize shallow landslides

Revil, André; Soueid Ahmed, Abdellahi; Coperey, Antoine; Ravanel, Ludovic; Sharma, Ravi Kumar; Panwar, N.

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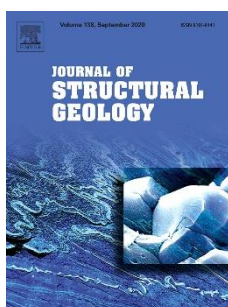


Tectonic control on slow-moving Andean landslides in the Colca Valley, Peru

Gaidzik, Krzysztof; Zaba, Jerzy; Ciesielczuk, Justyna

Journal of Mountain Science, vol. 17, n. 8, August 2020, pp. 1807-1825

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Shear localisation, strain partitioning and frictional melting in a debris avalanche generated by volcanic flank-collapse

Hughes, Amy; Kendrick, Jackie E.; Salas, Guido; Wallace, Paul A.; Legros, François, et al.

Journal of Structural Geology, vol. 140, art. 104132, November, 2020, 19 p.

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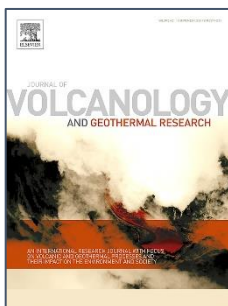


A new longirostrine sperm whale (Cetacea, Physeteroidea) from the lower Miocene of the Pisco Basin (southern coast of Peru)

Lambert, Olivier; Muizon, Christian de; Urbina Schmitt, Mario; Bianucci, Giovanni

Journal of Systematic Palaeontology, vol. 18, n. 20, September 2020, pp. 1707-1742

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The thermal properties of porous andesite

Heap, Michael J.; Kushnir, Alexandra R.L.; Vasseur, Jérémie; Wadsworth, Fabian B.; Harlé, Pauline, et al.

vol. 398, art. 106901, June 2020, 13 p.

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Living near volcanoes: Scoping the gaps between the local community and volcanic experts in southern Chile

Marín, Andrés; Vergara Pinto, Francisca; Prado, Francisco; Farías, Cristian

**Journal of Volcanology
and Geothermal Research**

vol. 398, art. 106903, June 2020, 10 p.

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Dynamics and physical parameters of the Lastarria debris avalanche, Central Andes

Rodríguez, Inés; Páez, Jerson; van Wyk de Vries, Maximillian S.; van Wyk de Vries, Benjamin; Godoy, Benigno

vol. 402, art. 106990, September 2020, 14 p.

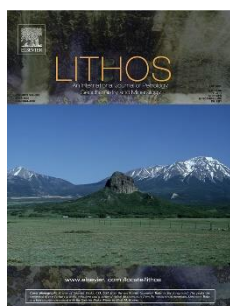
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The influence of fluid type on elastic wave velocity and attenuation in volcanic rocks

Clarke, James; Adam, Ludmila; van Wijk, Kasper; Sarout, Joel

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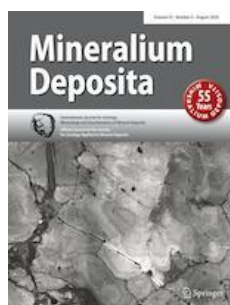


Bolivian hornblendite cumulates: Insights into the depths of Central Andean arc magmatic systems

Velázquez Santana, Liannie C.; McLeod, Claire L.; Blakemore, D.; Shaulis, Barry; Hill, T.

Lithos, vol. 370-371, art. 105618, October 2020, 14 p.

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Mineralium Deposita

Infrared microthermometry of fluid inclusions in transparent to opaque minerals: challenges and new insights

Peng, Hong-Wei; Fan, Hong-Rui; Santosh, M.; Hu, Fang-Fang; Jiang, Peng

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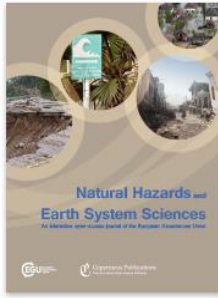
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Formation of the Mantoverde iron oxide-copper-gold (IOCG) deposit, Chile: insights from Fe and O stable isotopes and comparisons with iron oxide-apatite (IOA) deposits

Childress, Tristan M.; Simon, Adam C.; Reich, Martin; Barra, Fernando; Arce, Mauricio

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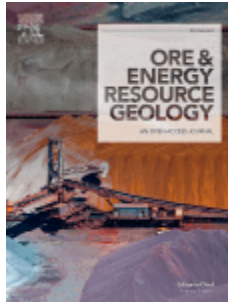


Anthropogenic climate change and glacier lake outburst flood risk: local and global drivers and responsibilities for the case of lake Palcacocha, Peru

Huggel, Christian; Carey, Mark; Emmer, Adam; Frey, Holger; Walker-Crawford, Noah; Wallimann-Helmer, Ivo

Natural Hazards and Earth System Sciences, vol. 20, n. 8, August 2020, pp. 2175-2193

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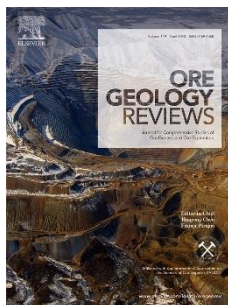


Assessing the variability of expert estimates in the USGS three-part undiscovered mineral resource assessment methodology: A call for increased skill diversity and scenario-based training

Davies, Rhys S.; Trench, Allan; Groves, David I.; Dentith, Michael; Davies, Marianne J.; Sykes, John P.

Ore and Energy Resource Geology, vol. 2-3, art. 100006, July 2020, 16 p.

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Boron isotope variations in tourmaline from hydrothermal ore deposits: A review of controlling factors and insights for mineralizing systems

Trumbull, Robert B.; Codeço, Marta S.; Jiang, Shao-Yong; Palmer, Martin R.; Slack, John F.

vol. 125, art. 103682, October 2020, 16 p.

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Basin analysis using seismic interpretation as a tool to examine the extent of a basin ore 'play'

Jenkins, Alexander P.; Torvela, Taija

Ore Geology Reviews

vol. 125, art. 103698, October 2020, 17 p.

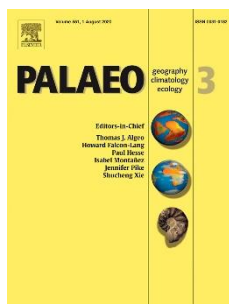
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Chemical signature of quartz from S- and A-type rare-metal granites – A summary

Breiter, Karel; Ďurišová, Jana; Dosbaba, Marek

vol. 125, art. 103674, October 2020, 15 p.

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**Palaeogeography,
Palaeoclimatology,
Palaeoecology**

Modern pollen signatures of Amazonian rivers and new insights for environmental reconstructions

Akabane, Thomas Kenji; Sawakuchi, André Oliveira; Chiessi, Cristiano Mazur; Kern, Andrea K.; Pinaya, Jorge Luiz Diaz, et al.

vol. 554, art. 109802, September 2020, 15 p.

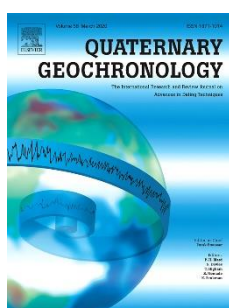
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Chemical weathering of crystalline rocks in contrasting climatic conditions using geochemical proxies: An overview

Perri, Francesco

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Glass shard K-Ar dating of the Chalupas caldera major eruption: Main Pleistocene stratigraphic marker of the Ecuadorian volcanic arc

Bablon, Mathilde; Quidelleur, Xavier; Siani, Giuseppe; Samaniego, Pablo; Le Pennec, Jean-Luc, et al.

Quaternary Geochronology, vol. 57, art. 101053, April 2020, 12 p.

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Quaternary International

Examining pre-Hispanic human and animal isotopic variation at Kuelap in the eastern montane of Peru

Toyne, J. Marla; Michell, Samantha; Denierio, Marley; Narváez Vargas, L. Alfredo

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Deposit-centered archaeological survey and the search for the Aegean Palaeolithic: A geoarchaeological perspective

Holcomb, Justin A.; Runnels, Curtis N.; Wegmann, Karl W.

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**Quaternary Science
Reviews**

Fantastic beasts and what they ate: Revealing feeding habits and ecological niche of late Quaternary Macraucheniiidae from South America

Oliveira, Karoliny de; Araújo, Thaísa; Rotti, Alline; Mothé, Dimila; Rivals, Florent; Avilla, Leonardo S.

vol. 231, art. 106178, March 2020, 12 p.

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Holocene relative sea-level change along the tectonically active Chilean coast

Garrett, Ed; Melnick, Daniel; Dura, Tina; Cisternas, Marco; Ely, Lisa L., et al.

vol. 236, art. 106281, May 2020, 18 p.

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U-Th dating of lake sediments: Lessons from the 700 ka sediment record of Lake Junín, Peru

Chen, Christine Y.; McGee, David; Woods, Arielle; Pérez, Liseth; Hatfield, Robert G., et al.

vol. 244, art. 106422, September 2020, 33 p.

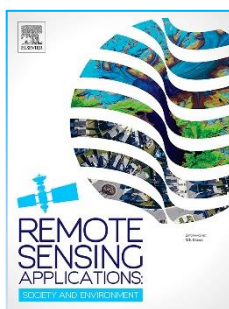
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Landscape evolution and the environmental context of human occupation of the southern pampa del tamarugal, Atacama Desert, Chile

Workman, T. Race; Rech, Jason A.; Gayó, Eugenia M.; Santoro, Calogero M.; Ugalde, Paula C., et al.

vol. 243, art. 106502, September 2020, 20 p.

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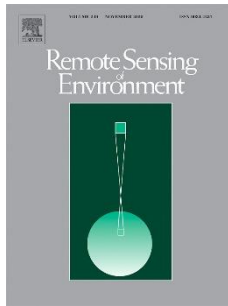


Monitoring tropical forest degradation using remote sensing. Challenges and opportunities in the Madre de Dios region, Peru

Tarazona, Yonatan; Miyasiro López, María

Remote Sensing Applications: Society and Environment, vol. 19, art. 100337, August 2020, 13 p.

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Remote Sensing of Environment

Rapid and robust monitoring of flood events using Sentinel-1 and Landsat data on the Google Earth Engine

DeVries, Ben; Huang, Chengquan; Armston, John David; Huang, Wenli; Jones, John W.; Lang, Megan W.

vol. 240, art. 111664, April 2020, 15 p.

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Persistent homology on LiDAR data to detect landslides

Syzdykbayev, Meirman; Karimi, Bobak; Karimi, Hassan A.

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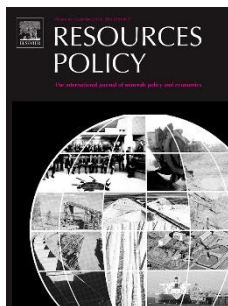
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Multi-scale integration of satellite remote sensing improves characterization of dry-season green-up in an Amazon tropical evergreen forest

Wang, Jing; Yang, Dedi; Detto, Matteo; Nelson, Bruce W.; Chen, Min

vol. 246, art. 111865, September 2020, 16 p.

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Resources Policy

Role of natural resource abundance, international trade and financial development in the economic development of selected countries

Redmond, Trumel; Nasir, Muhammad Ali

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Rethinking the concept of small-scale mining for technologically advanced raw materials production

Sidorenko, Olga; Sairinen, Rauno; Moore, Kathryn

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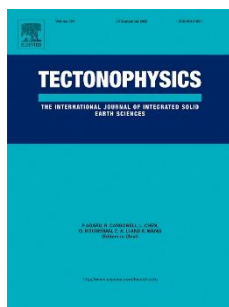
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Expected prices, futures prices and time-varying risk premiums: The case of copper

Cifuentes, Sebastián; Cortázar, Gonzalo; Ortega, Héctor; Schwartz, Eduardo S.

vol. 69, art. 101825, December 2020, 15 p.

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Tectonophysics

Evolution of the Ecuador offshore nonaccretionary-type forearc basin and margin segmentation

Hernández, María José; Michaud, François; Collot, Jean-Yves; Proust, Jean-Noël; d'Acremont, Elia

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Outer forearc high control in an erosional subduction regime: The case of the central Peruvian forearc (6–10°S)

Genge, Marie Catherine; Witt, César; Chanier, Frank; Reynaud, Jean-Yves; Calderón Cahua, Ysabel

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Cenozoic increase in subduction erosion during plate convergence variability along the convergent margin off Trujillo, Peru

Herbozo, Gery; Kukowski, Nina; Clift, Peter D.; Pecher, Ingo; Bolaños Zapana, Rolando

vol. 790, art. 228557, September 2020, 19 p.

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