



Boletín de Novedades Geocientíficas

N° 8, Agosto 2020

ARTICULOS DE REVISTAS

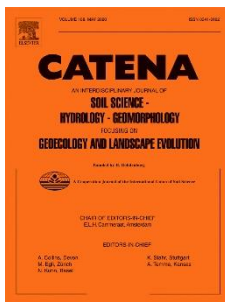


Locations of cinnabar-mercury occurrences in Peru: Implications for pre-contact gold production

Brooks, William E

Archaeological Discovery, vol. 8, n. 3, July 2020, pp. 245-259

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CATENA

GIS-based evaluation of landslide susceptibility using hybrid computational intelligence models

Chen, Wei; Li, Yang

vol. 195, art. 104777, December 2020, 16 p.

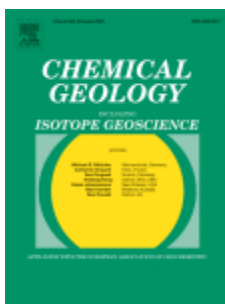
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Southward migration of the austral limit of mangroves in South America

Cohen, Marcelo Cancela Lisboa; Rodrigues, Erika do Socorro Ferreira; Rocha, Denise O.S.; Freitas, Jaíne; Fontes, Neuza Araújo, et al.

vol. 195, art. 104775, December 2020, 16 p.

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Lithium and Nd isotopic constraints on the origin of Li-poor pegmatite with implications for Li mineralization

Chen, Bin; Huang, Chao; Zhao, Hui

Chemical Geology, vol. 551, art. 119769, September 2020, 14 p.

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Computers & Geosciences

Hybrid geological modeling: Combining machine learning and multiple-point statistics

Bai, Tao; Tahmasebi, Pejman

vol. 142, art. 104519, September 2020, 16 p.

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A new perspective to model subsurface stratigraphy in alluvial hydrogeological basins, introducing geological hierarchy and relative chronology

Zuffetti, Chiara; Comunian, Alessandro; Bersezio, Riccardo; Renard, Philippe

vol. 140, art. 104506, July 2020, 13 p.

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Earth and Planetary
Science Letters

Absolute dating of the L-chondrite parent body breakup with high-precision U-Pb zircon geochronology from Ordovician limestone

Liao, ShiYong; Huyskens, Magdalena H.; Yin, Qing-Zhu; Schmitz, Birger

vol. 547, art. 116442, October 2020, 8 p.

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3D multi-source model of elastic volcanic ground deformation

Camacho, Antonio G.; Fernández, José; Samsonov, Sergey V.; Tiampo, Kristy F.; Palano, Mimmo

vol. 547, art. 116445, October 2020, 13 p.

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Deformation across the mantle transition zone: A theoretical mineral physics view

Ritterbex, Sebastian; Carrez, Philippe; Cordier, Patrick

vol. 547, art. 116438, October 2020, 10 p.

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Plate tectonics and mantle controls on plume dynamics

Arnould, Maëlis; Coltice, Nicolas; Flament, Nicolas; Mallard, Claire

vol. 547, art. 116439, October 2020, 15 p.

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Earth-Science Reviews

Machine learning methods for landslide susceptibility studies: A comparative overview of algorithm performance

Merghadi, Abdelaziz; Yunus, Ali Pulpadan; Dou, Jie; Whiteley, Jim S.; ThaiPham, Binh, et al.

vol. 207, art. 103225, August 2020, 47 p.

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Detrital zircon geochronology and processes in accretionary wedges

Zák, Jirí; Svojtka, Martin; Hajná, Jaroslava; Ackerman, Lukás

vol. 207, art. 103214, August 2020, 20 p.

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Secular change and the onset of plate tectonics on Earth

Palin, Richard M.; Santosh, M.; Cao, Wentao; Li, Shan-Shan; Hernández Uribe, David; Parsons, Andrew

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Controls on the dynamics of rare earth elements during subtropical hillslope processes and formation of regolith-hosted deposits

Li, Martin Yan Hei; Zhou, Mei-Fu; Williams-Jones, Anthony E.

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Geochimica et Cosmochimica Acta

Chromium reduction and associated stable isotope fractionation restricted to anoxic shelf waters in the Peruvian Oxygen Minimum Zone

Nasemann, Philipp; Janssen, David J.; Rickli, Jörg; Grasse, Patricia; Frank, Martin; Jaccard, Samuel L.

vol. 285, September 2020, pp. 207-224

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Phase equilibria, thermodynamic properties, and solubility of quartz in saline-aqueous-carbonic fluids: Application to orogenic and intrusion-related gold deposits

Li, Xing-Hui; Klyukin, Yury I.; Steele MacInnis, Matthew J.; Fan, Hong-Rui; Yang, Kui-Feng; Zoheir, Basem

vol. 283, August 2020, pp. 201-221

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Citizen science campaign reveals widespread fallout of contaminated dust from mining activities in the central Peruvian Andes

Molloy, James B.; Rodbell, Donald T.; Gillikin, David P.; Hollocher; Kurt T.

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Halogens in hydrothermal sphalerite record origin of ore-forming fluids

Frenzel, Max; Cook, Nigel J.; Ciobanu, Cristiana L.; Slattery, Ashley D.; Wade, Benjamin P., et al.

Geology; vol. 48, n. 8, August 2020, pp. 766-770

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Geomorphology

Fluvial terraces as quantitative markers of late Quaternary detachment folding and creeping thrust faulting in the Peruvian Huallaga basin

Viveen, Willem; Baby, Patrice; Sanjurjo Sánchez, Jorge; Hurtado Enríquez, Christian Augusto

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A hybrid machine-learning model to estimate potential debris-flow volumes

Huang, Yin

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Fluvial evacuation of landslide material from bedrock-confined channels under controlled experimental conditions

Baynes, Edwin R.C.; Bardin, Charline; Friedrich, Heide

vol. 368, art. 107359, November 2020, 12 p.

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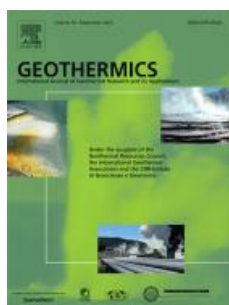


Advances in the thermal and petrologic modeling of subduction zones

Peacock, Simon M.

Geosphere, vol. 16, n. 4, August 2020, pp. 1647-1663

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Geothermics

Refined experimental design and response surface methodology workflow using proxy numerical models for probabilistic geothermal resource assessment

Ciriaco, Anthony E.; Zarrouk, Sadiq J.; Zakeri, Golbon; Mannington, Warren I.

vol. 88, art. 101911, November 2020, 34 p.

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Optimizing geothermal production in fractured rock reservoirs under uncertainty

Patterson, Jeremy R.; Cardiff, Michael; Feigl, Kurt L.

vol. 88, art. 101906, November 2020, 10 p.

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Global and Planetary Change

Late Pleistocene alluvial fan evolution along the coastal Atacama Desert (N Chile)

Bartz, Melanie; Walk, Janek; Binnie, Steven A.; Brill, Dominik; Stauch, Georg, et al.

vol.190, art.103091, July 2020, 20 p.

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Spatial shifts in productivity of the coastal ocean over the past two decades induced by migration of the Pacific Anticyclone and Bakun's effect in the Humboldt Upwelling Ecosystem

Weidberg, Nicolás; Ospina Alvarez, Andrés; Bonicelli, Jessica; Barahona, Mario; Aiken, Christopher M., et al.

vol.193, art.103259, October 2020, 6 p.

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**International Journal of
Disaster Risk Reduction**

What defines the success of maps and additional information on a multi-hazard platform?

Dallo, Irina; Stauffacher, Michael; Marti, Michèle

vol. 49, art.101761, October 2020, 11 p.

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Methodological approaches and challenges to assess the environmental losses from natural disasters

Sangha, Kamaljit K.; Russell Smith, Jeremy; Evans, Jay; Edwards, Andrew C.

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The case for integrative sustainable development practice based on the Minas Conga gold-mining experience in Peru

Downs, Timothy J.; Cabrera Roa, Andrea; Dixon, Katherine Chyna; Duff, Phyllis; Pasay, Eric; Silverfine, Hannah

Journal of Geoscience and Environment Protection, vol. 8, 1n. 5, May 2020, pp. 17-40

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Anoxic oceanic conditions during the late Permian mass extinction-evidence from the Chutani formation, Bolivia

Nina, Lidia M.; Paula Santos, Gustavo M.; Sial, Alcides Nóbrega; Bark, Glenn; Wanhainen, Christina; Jiménez, Giovanni; Blanco, Mario

vol. 103, art. 102693, November 2020, 14 p.

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East-vergent thrusts and inversion structures: An updated tectonic model to understand the Domeyko Cordillera and the Salar de Atacama Basin transition in the western Central Andes

López, Cristopher; Martínez, Fernando J.; Del Ventisette, Chiara; Bonini, Marco; Montanari, Doménico, et al.

vol. 103, art. 102741, November 2020, 20 p.

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Kinematic deformation model of the south-central subandean zone, Bolivia

Sánchez, Angel W.; Goncalves, Ana María; Keven Asquith, Hill, Kevin

vol. 103, art. 102768, November 2020, 19 p.

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Structural control and timing of evaporite-related Mississippi Valley-type Zn–Pb deposits in Pucará Group, northern central Peru

Oliveira, Saulo Batista de; Juliani, Caetano; Monteiro, Lena Virgínia Soares; Tassinari, Colombo Celso Gaeta

vol. 103, art. 102736, November 2020, 12 p.

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Paleolimnological reconstruction of the centennial eutrophication processes in a sub-tropical South American reservoir

Halac, Silvana; Mengo, L.; Guerra, Lucía; Lami, Andrea; Musazzi, Simona, et al.

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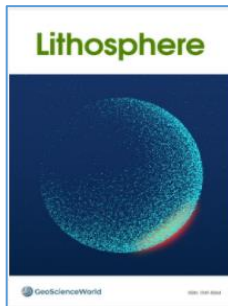
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Evidence for two stages of back-arc compression in the late Cretaceous fold-and-thrust belt in the Precordillera of northern Chile (24°30'S–25°30'S)

González, Rodrigo T.; Espinoza, Daniela; Robledo, Francisca; Jeria, Vicente; Espinoza, Mauricio, et al.

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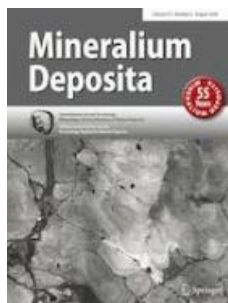


Lithospheric structure of the Central Andes forearc from gravity data modeling: implication for plate coupling

Gushurst, Greg; Mahatsente, Rezene

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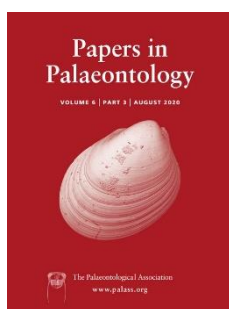


Lithium concentrations and isotope signatures of Palaeozoic basement rocks and Cenozoic volcanic rocks from the Central Andean arc and back-arc

Meixner, Anette; Sarchi, Carisa; Lucassen, Friedrich; Becchio, Raúl Alberto; Caffè, Pablo J., et al.

Mineralium Deposita, vol. 55, n. 6, August 2020, pp.1071-1084

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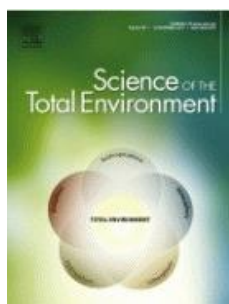
A new small, mesostrine inioid (Cetacea, Odontoceti, Delphinida) from four upper Miocene localities in the Pisco Basin, Peru

Lambert, Olivier; Collareta, Alberto; Benites Palomino, Aldo; Di Celma, Claudio; Muizon, Christian de, et al.

Papers in Palaeontology, July 2020, 22 p.

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Data for this study are available in the Dryad Digital Repository:
<https://doi.org/10.5061/dryad.70rxwdbv2>



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Rainfall erosivity in South America: Current patterns and future perspectives

Riquetti, Nelva B.; Mello, Carlos R.; Beskow, Samuel; Viola, Marcelo R.

vol. 724, art. 138315, July 2020, 14 p.

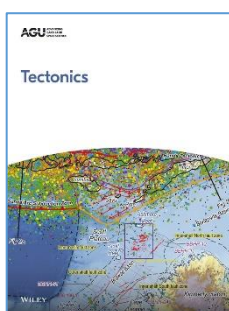
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An integrative approach to identify the impacts of multiple metal contamination sources on the Eastern Andean foothills of the Ecuadorian Amazonia

Capparelli, Mariana Velloso; Moulatlet, Gabriel Massaine; Abessa, Denis Moledo de Souza; Lucas Solís, Oscar; Rosero, Bryan, et al.

vol. 709, art. 136088, March 2020, 12 p.

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Shallow anatomy of the San Ramón Fault (Chile) constrained by geophysical methods: Implications for its role in the Andean deformation

Yáñez, G.; Pérez Estay, N.; Araya Vargas, J.; Sanhueza, J.; Figueroa, R.; Marín, J.; Rojas, T.

Tectonics, vol. 39, n. 8, art. e2020TC006294, August 2020, 21 p.

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TESIS EN FORMATO DIGITAL



Factores que determinan el origen de la contaminación de suelos por arsénico en la comunidad de Llacubamba, Pataz, mediante procedimientos secuenciales y alternos
Díaz Cartagena, Walter Javier

Tesis doctoral. Lima: Universidad Nacional Mayor de San Marcos, FIGMMG, Unidad de Posgrado, 2019, 187 p.

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Modelo de sostenibilidad de la minería artesanal de oro para el desarrollo local del distrito de Chala, Arequipa
Gonzáles Torres, Mario Alberto

Tesis doctoral. Lima: Universidad Nacional Mayor de San Marcos, FIGMMG, Unidad de Posgrado, 2019, 288 p.

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Elementos de contaminación ambiental en la extracción informal de carbón y alternativas de extracción sostenible
Guevara Alvarado, Nicolás Mercedes

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Estratigrafía de secuencias en rocas del Pérmico aplicada a la exploración hidrocarburífera en las cuencas del sur oriente peruano
Pozo Calle, Eloy Gerardo

Magister en Geología. Lima: Universidad Nacional Mayor de San Marcos, FIGMMG, Unidad de Posgrado, 2019, 217 p.

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Zonamiento genético de la mineralización y su relación con la extracción y recuperación de minerales en el área del yacimiento Corona

Vereau Jave, José Enrique

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