Mauricio IbaÃ±ez Mejia

List of Publications by Year
in descending order

41 papers	1,665 citations	279798 23 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	1611 citing authors

#	Article	IF	Citations
1	What happens when n= 1000? Creating large-n geochronological datasets with LA-ICP-MS for geologic investigations. Journal of Analytical Atomic Spectrometry, 2014, 29, 971-980.	3.0	168
2	The Putumayo Orogen of Amazonia and its implications for Rodinia reconstructions: New Uâ€“Pb geochronological insights into the Proterozoic tectonic evolution of northwestern South America. Precambrian Research, 2011, 191, 58-77.	2.7	134
3	New age constraints for the Salamanca Formation and lower Rio Chico Group in the western San Jorge Basin, Patagonia, Argentina: Implications for Cretaceous-Paleogene extinction recovery and land mammal age correlations. Bulletin of the Geological Society of America, 2014, 126, 289-306.	3.3	103
4	Magmatic history and crustal genesis of western South America: Constraints from U-Pb ages and Hf isotopes of detrital zircons in modern rivers. , 2016, 12, 1532-1555.		87
5	Grenvillian remnants in the Northern Andes: Rodinian and Phanerozoic paleogeographic perspectives. Journal of South American Earth Sciences, 2010, 29, 92-104.	1.4	78
6	Early Paleogene magmatism in the northern Andes: Insights on the effects of Oceanic Plateauâ€“continent convergence. Earth and Planetary Science Letters, 2012, 331-332, 97-111.	4.4	67
7	Inversion tectonics under increasing rates of shortening and sedimentation: Cenozoic example from the Eastern Cordillera of Colombia. Geological Society Special Publication, 2013, 377, 411-442.	1.3	67
8	Unraveling crustal growth and reworking processes in complex zircons from orogenic lower-crust: The Proterozoic Putumayo Orogen of Amazonia. Precambrian Research, 2015, 267, 285-310.	2.7	66
9	Reply to Comment on â€œUâ€“Pb baddeleyite ages and geochemistry of dolerite dykes in the Bas-DrÃ¢a inlier of the Anti-Atlas of Morocco: Newly identified 1380Ma event in the West African Cratonâ€• by AndrÃ© Michard and Dominique Gasquet. Lithos, 2013, 174, 101-108.	1.4	60
10	Optimization of a Laser Ablationâ€Single Collectorâ€Inductively Coupled Plasmaâ€Mass Spectrometer (Thermo Element 2) for Accurate, Precise, and Efficient Zircon Uâ€Thâ€Pb Geochronology. Geochemistry, Geophysics, Geosystems, 2018, 19, 3689-3705.	2.5	57
11	New age constraints for early Paleogene strata of central Patagonia, Argentina: Implications for the timing of South American Land Mammal Ages. Bulletin of the Geological Society of America, 2017, 129, 886-903.	3.3	51
12	Extreme Zr stable isotope fractionation during magmatic fractional crystallization. Science Advances, 2019, 5, eaax8648.	10.3	46
13	Relationship of Mesozoic graben development, stress, shortening magnitude, and structural style in the Eastern Cordillera of the Colombian Andes. Geological Society Special Publication, 2013, 377, 257-283.	1.3	44
14	Linking Late Cretaceous to Eocene Tectonostratigraphy of the San Jacinto Fold Belt of NW Colombia With Caribbean Plateau Collision and Flat Subduction. Tectonics, 2017, 36, 2599-2629.	2.8	44
15	Geochemistry, U-Pb geochronology and Lu-Hf isotope systematics of a suite of ferroan (A-type) granitoids from the CGGC: Evidence for Mesoproterozoic crustal extension in the east Indian shield. Precambrian Research, 2018, 305, 40-63.	2.7	41
16	Small-volume baddeleyite (ZrO2) Uâ€“Pb geochronology and Luâ€“Hf isotope geochemistry by LA-ICP-MS. Techniques and applications. Chemical Geology, 2014, 384, 149-167.	3.3	40
17	Structure and age of the Lower Magdalena Valley basin basement, northern Colombia: New reflection-seismic and U-Pb-Hf insights into the termination of the central andes against the Caribbean basin. Journal of South American Earth Sciences, 2017, 74, 1-26.	1.4	39
18	Drivers of zirconium isotope fractionation in Zr-bearing phases and melts: The roles of vibrational, nuclear field shift and diffusive effects. Geochimica Et Cosmochimica Acta, 2021, 292, 217-234.	3.9	38

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19	Petrology and Uâ€“Pb geochronology of zircon in a suite of charnockitic gneisses from parts of the Chotanagpur Granite Gneiss Complex (CGGC): evidence for the reworking of a Mesoproterozoic basement during the formation of the Rodinia supercontinent. Geological Society Special Publication, 2017, 457, 197-231.	1.3	37
20	Timing of initial seafloor spreading in the Newfoundland-Iberia rift. Geology, 2017, 45, 527-530.	4.4	35
21	Recent crustal foundering in the Northern Volcanic Zone of the Andean arc: Petrological insights from the roots of a modern subduction zone. Earth and Planetary Science Letters, 2017, 476, 47-58.	4.4	30
22	Zirconium stable isotope analysis of zircon by MC-ICP-MS: methods and application to evaluating intra-crystalline zonation in a zircon megacryst. Journal of Analytical Atomic Spectrometry, 2020, 35, 1167-1186.	3.0	29
23	Multispecies Diffusion of Yttrium, Rare Earth Elements and Hafnium in Garnet. Journal of Petrology, 2020, 61, .	2.8	26
24	Reliability of detrital marine sediments as proxy for continental crust composition: The effects of hydrodynamic sorting on Ti and Zr isotope systematics. Geochimica Et Cosmochimica Acta, 2021, 310, 221-239.	3.9	26
25	Use and abuse of detrital zircon U-Pb geochronologyâ€”A case from the RÃo Orinoco delta, eastern Venezuela. Geology, 0, , .	4.4	25
26	Neogene precipitation, vegetation, and elevation history of the Central Andean Plateau. Science Advances, 2020, 6, eaaz4724.	10.3	24
27	Timescales of collisional metamorphism from Sm-Nd, Lu-Hf and U-Pb thermochronology: A case from the Proterozoic Putumayo Orogen of Amazonia. Geochimica Et Cosmochimica Acta, 2018, 235, 103-126.	3.9	21
28	Widespread silicic and alkaline magmatism synchronous with the Deccan Traps flood basalts, India. Earth and Planetary Science Letters, 2020, 552, 116616.	4.4	21
29	²³⁸U/²³⁵U measurement in single-zircon crystals: implications for the Hadean environment, magmatic differentiation and geochronology. Journal of Analytical Atomic Spectrometry, 2019, 34, 2035-2052.	3.0	19
30	Bulk rock and zircon geochemistry of granitoids from the Chotanagpur Granite Gneissic ComplexÂ(CGGC): implications for the late Paleoproterozoic continental arc magmatism in the East Indian Shield. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	18
31	Structural analysis combined with new geothermobarometric and geochronological results of the AlÃ©m ParaÃba shear zone, between TrÃªs Rios and Bananal, Ribeira Orogen, SE Brazil. Journal of South American Earth Sciences, 2019, 90, 118-136.	1.4	18
32	<scp>GHR</scp>1 Zircon â€“ A New Eocene Natural Reference Material for Microbeam Uâ€Pb Geochronology and Hf Isotopic Analysis of Zircon. Geostandards and Geoanalytical Research, 2019, 43, 113-132.	3.1	18
33	Absence of a long-lived lunar paleomagnetosphere. Science Advances, 2021, 7, .	10.3	18
34	Petrology and geochronology of a suite of pelitic granulites from parts of the Chotanagpur Granite Gneiss Complex , eastern India : Evidence for Stenianâ€Tonian reworking of a late Paleoproterozoic crust. Geological Journal, 2020, 55, 2851-2880.	1.3	16
35	Diffusion anisotropy of Ti in zircon and implications for Ti-in-zircon thermometry. Earth and Planetary Science Letters, 2022, 578, 117317.	4.4	15
36	Deciphering Sedimentary Provenance and Timing of Sedimentation From a Suite of Metapelites From the Chotanagpur Granite Gneissic Complex, India. , 2017, , 453-486.		14

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37	Unlocking the Single-Crystal Record of Heavy Stable Isotopes. Elements, 2021, 17, 389-394.	0.5	10
38	Revised chronostratigraphy and biostratigraphy of the earlyâ€“middle Miocene Railroad Canyon section of central-eastern Idaho, USA. Bulletin of the Geological Society of America, 2017, 129, 1241-1251.	3.3	7
39	The Guaviare Complex: new evidence of Mesoproterozoic (ca. 1.3 Ga) crust in the Colombian Amazonian Craton. BoletÃn GeolÃ³gico, 2020, , 5-34.	0.2	5
40	San JosÃ© de Guaviare Syenite, Colombia: Repeated Ediacaran intrusions in the northwestern Amazonian Craton. BoletÃn GeolÃ³gico, 2021, 48, 49-79.	0.2	2
41	Tectonic domains in the NW Amazonian Craton from geophysical and geological data. Precambrian Research, 2022, 377, 106735.	2.7	1