JosÃ© F Molina

List of Publications by Year
in descending order

50 papers	1,937 citations	257450 24 h-index	254184 43 g-index
51 all docs	51 docs citations	51 times ranked	1708 citing authors

#	Article	IF	Citations
1	Carbonate stability and fluid composition in subducted oceanic crust: an experimental study on H2Oâ€“CO2-bearing basalts. Earth and Planetary Science Letters, 2000, 176, 295-310.	4.4	194
2	Mafic Precursors, Peraluminous Granitoids, and Late Lamprophyres in the Avila Batholith: A Model for the Generation of Variscan Batholiths in Iberia. Journal of Geology, 1999, 107, 399-419.	1.4	151
3	Calcic amphibole thermobarometry in metamorphic and igneous rocks: New calibrations based on plagioclase/amphibole Al-Si partitioning and amphibole/liquid Mg partitioning. Lithos, 2015, 232, 286-305.	1.4	150
4	The Eocene bimodal Piranshahr massif of the Sanandajâ€“Sirjan Zone, NW Iran: a marker of the end of the collision in the Zagros orogen. Journal of the Geological Society, 2009, 166, 53-69.	2.1	125
5	High-Ti amphibole as a petrogenetic indicator of magma chemistry: evidence for mildly alkalic-hybrid melts during evolution of Variscan basicâ€“ultrabasic magmatism of Central Iberia. Contributions To Mineralogy and Petrology, 2009, 158, 69-98.	3.1	103
6	Rb/Sr record of fluid-rock interaction in eclogites: The Marun-Keu complex, Polar Urals, Russia. Geochimica Et Cosmochimica Acta, 2003, 67, 4353-4371.	3.9	94
7	Precise eclogitization ages deduced from Rb/Sr mineral systematics: The Maksyutov complex, Southern Urals, Russia. Geochimica Et Cosmochimica Acta, 2002, 66, 1221-1235.	3.9	90
8	Unraveling sources of A-type magmas in juvenile continental crust: Constraints from compositionally diverse Ediacaran post-collisional granitoids in the Katerina Ring Complex, southern Sinai, Egypt. Lithos, 2014, 192-195, 56-85.	1.4	88
9	The palaeogeographic position of Central Iberia in Gondwana during the Ordovician: evidence from zircon chronology and Nd isotopes. Terra Nova, 2010, 22, 341-346.	2.1	83
10	Deformation-driven differentiation of granitic magma: the Stepninsk pluton of the Uralides, Russia. Lithos, 2005, 81, 209-233.	1.4	72
11	Zircon thermometry and Uâ€“Pb ion-microprobe dating of the gabbros and associated migmatites of the Variscan Toledo Anatectic Complex, Central Iberia. Journal of the Geological Society, 2006, 163, 847-855.	2.1	67
12	Within-plate calc-alkaline rocks: Insights from alkaline mafic magmaâ€“peraluminous crustal melt hybrid appinites of the Central Iberian Variscan continental collision. Lithos, 2009, 110, 50-64.	1.4	57
13	55 million years of continuous anatexis in Central Iberia: single-zircon dating of the Penìƒa Negra Complex. Journal of the Geological Society, 2004, 161, 255-263.	2.1	51
14	Th-REE- and Nb-Ta-accessory minerals in post-collisional Ediacaran felsic rocks from the Katerina Ring Complex (S. Sinai, Egypt): An assessment for the fractionation of Y/Nb, Th/Nb, La/Nb and Ce/Pb in highly evolved A-type granites. Lithos, 2016, 258-259, 173-196.	1.4	46
15	SHRIMP Uâ€“Pb zircon dating of the Katerina Ring Complex: Insights into the temporal sequence of Ediacaran calc-alkaline to peralkaline magmatism in southern Sinai, Egypt. Gondwana Research, 2012, 21, 887-900.	6.0	44
16	Lamprophyre dikes as tectonic markers of late orogenic transtension timing and kinematics: A case study from the Central Iberian Zone. Tectonics, 2011, 30, .	2.8	39
17	SHRIMP Uâ€“Pb zircon dating of the Valencia del Ventoso plutonic complex, Ossa-Morena Zone, SW Iberia: Early Carboniferous intra-orogenic extension-related â€˜calc-alkalineâ€™ magmatism. Gondwana Research, 2015, 28, 735-756.	6.0	34
18	Lu-Hf ratios of crustal rocks and their bearing on zircon Hf isotope model ages: The effects of accessories. Chemical Geology, 2018, 484, 179-190.	3.3	34

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19	Contrasting SHRIMP Uâ€“Pb zircon ages of two carbonatite complexes from the peri-cratonic terranes of the Reguibat Shield: Implications for the lateral extension of the West African Craton. Gondwana Research, 2016, 38, 238-250.	6.0	33
20	The eclogites of the Marunâ€“Keu complex, Polar Urals (Russia): fluid control on reaction kinetics and metasomatism during high P metamorphism. Lithos, 2002, 61, 55-78.	1.4	31
21	First evidence for Cambrian rift-related magmatism in the West African Craton margin: The Derraman Peralkaline Felsic Complex. Gondwana Research, 2016, 36, 423-438.	6.0	29
22	Anomalous xenocryst dispersion during tonaliteâ€“granodiorite crystal mush hybridization in the mid crust: Mineralogical and geochemical evidence from Variscan appinites (Avila Batholith, Central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67	1.4	28
23	Shoshonites, vaugnerites and potassic lamprophyres: similarities and differences between â€˜ultraâ€™-high-K rocks. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2008, 99, 159-175.	0.3	25
24	Kalsilite-bearing plutonic rocks: The deep-seated Archean Awsard massif of the Reguibat Rise, South Morocco, West African Craton. Earth-Science Reviews, 2014, 138, 1-24.	9.1	25
25	Eclogite-facies vein systems in the Marun-Keu complex (Polar Urals, Russia): textural, chemical and thermal constraints for patterns of fluid flow in the lower crust. Contributions To Mineralogy and Petrology, 2004, 147, 484-504.	3.1	24
26	The Bir Safsaf Precambrian inlier of South West Egypt revisited. A model for ~1.5Ga TDM late Pan-African granite generation by crustal reworking. Lithos, 2011, 125, 897-914.	1.4	23
27	Zircon stability grids in crustal partial melts: implications for zircon inheritance. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	23
28	The Archean to Late-Paleozoic architecture of the Oulad Dlim Massif, the main Gondwanan indenter during the collision with Laurentia. Earth-Science Reviews, 2020, 208, 103273.	9.1	19
29	Experimental evidence for the preservation of U-Pb isotope ratios in mantle-recycled crustal zircon grains. Scientific Reports, 2018, 8, 12904.	3.3	18
30	Zircon xenocryst evidence for crustal recycling at the Mid-Atlantic Ridge. Lithos, 2020, 354-355, 105361.	1.4	18
31	Secular variations of magma source compositions in the North Patagonian batholith from the Jurassic to Tertiary: Was mÃ©lange melting involved?. , 2021, 17, 766-785.		16
32	A reassessment of the amphibole-plagioclase NaSi-CaAl exchange thermometer with applications to igneous and high-grade metamorphic rocks. American Mineralogist, 2021, 106, 782-800.	1.9	14
33	Zircon crystallization in low-Zr mafic magmas: Possible or impossible?. Chemical Geology, 2022, 602, 120898.	3.3	14
34	Constraints of mantle and crustal sources and interaction during orogenesis: A zircon SHRIMP U-Th-Pb and O isotope study of the â€˜calc-alkalineâ€™ Brovales pluton, Ossa-Morena Zone, Iberian Variscan Belt. Lithos, 2019, 324-325, 661-683.	1.4	12
35	Contrasting high-Mg, high-K rocks in Central Iberia: the appiniteâ€”vaugnerite conundrum and their (non-existent) relation with arc magmatism. Journal of Iberian Geology, 2021, 47, 235-261.	1.3	12
36	Petrogenesis of Derraman Peralkaline granite (Oulad Dlim Massif, West African Craton Margin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Geoscience, 2018, 350, 236-244.	1.2	10

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37	High-P amphibolite-facies metamorphism in the Adrarâ€“Souttouf Metamafic Complex, Oulad Dlim Massif (West African Craton margin, Morocco). Comptes Rendus - Geoscience, 2018, 350, 245-254.	1.2	9
38	Petrogenesis of the F-rich peraluminous A-type granites: An example from the Devonian Achala batholith (Characato Suite), Sierras Pampeanas, Argentina. Lithos, 2020, 378-379, 105792.	1.4	7
39	Quartzite crests in Paleoproterozoic granites (Anti-Atlas, Morocco); a hint to Pan-African deformation of the West African Craton margin. Journal of African Earth Sciences, 2019, 157, 103501.	2.0	6
40	Miocene andesitic lavas of Sierra de Angangueo: a petrological, geochemical, and geochronological approach to arc magmatism in Central Mexico. International Geology Review, 2016, 58, 603-625.	2.1	5
41	Compositional Evolution of the Variscan Intra-Orogenic Extensional Magmatism in the Valencia del Ventoso Plutonic Complex, Ossa-Morena Zone (SW Iberia): A View from Amphibole Compositional Relationships. Minerals (Basel, Switzerland), 2021, 11, 431.	2.0	5
42	Experimental Annealing of Zircon: Influence of Inclusions on Stability, Intracrystalline Melt Migration, Common Lead Leaching, and Permeability to Fluids. ACS Earth and Space Chemistry, 2022, 6, 288-307.	2.7	3
43	Petrology, phase equilibria modelling, noble gas chronology and thermal constraints of the El Pozo L5 meteorite. Chemie Der Erde, 2018, 78, 248-253.	2.0	2
44	Singular Equilibria in Paragonite Blueschists, Amphibolites and Eclogites. Journal of Petrology, 1998, 39, 1325-1346.	2.8	2
45	Reply to discussion on the Eocene bimodal Piranshahr massif of the Sanadajâ€“Sirjan Zone, West Iran: a marker of the end of collision in the Zagros orogen. Journal of the Geological Society, 2009, 166, 983-984.	2.1	1
46	On the Seventh Hutton Symposium on the origin of granites and related rocks. Lithos, 2012, 153, 1-2.	1.4	0
47	A Cautionary Note on Amphibole Geobarometry. Environmental Sciences Proceedings, 2021, 6, .	0.3	0
48	Editorial for Special Issue â€œDistribution of Major- and Trace-Elements in Igneous Mineralsâ€• Minerals (Basel, Switzerland), 2021, 11, 942.	2.0	0
49	Emplacement conditions and exhumation of the Varvarco Tonalite and associated plutons from the Cordillera del Viento, Southern Central Andes. Geological Magazine, 2022, 159, 645-672.	1.5	0
50	The roles of partial melting of metasomatised mantle, magma mixing at continental crust level and fractionation in calc-alkaline minette genesis, SE Spain. International Geology Review, 2024, 66, 463-503.	2.1	0