Antonio Acosta-Vigil

List of Publications by Year
in descending order

39 papers	1,662 citations	236925 25 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	896 citing authors

#	Article	IF	Citations
1	Mechanisms of Crustal Anatexis: a Geochemical Study of Partially Melted Metapelitic Enclaves and Host Dacite, SE Spain. Journal of Petrology, 2010, 51, 785-821.	2.8	136
2	What can we learn from melt inclusions in migmatites and granulites?. Lithos, 2015, 239, 186-216.	1.4	111
3	Microstructures of melt inclusions in anatectic metasedimentary rocks. Journal of Metamorphic Geology, 2012, 30, 303-322.	3.4	108
4	Solubility of excess alumina in hydrous granitic melts in equilibrium with peraluminous minerals at 700â€“800ÂÂ°C and 200ÂMPa, and applications of the aluminum saturation index. Contributions To Mineralogy and Petrology, 2003, 146, 100-119.	3.1	95
5	Recovering the composition of melt and the fluid regime at the onset of crustal anatexis and S-type granite formation. Geology, 2013, 41, 115-118.	4.4	84
6	Granitoid magmas preserved as melt inclusions in high-grade metamorphic rock. American Mineralogist, 2016, 101, 1543-1559.	1.9	84
7	Experiments on the kinetics of partial melting of a leucogranite at 200ÂMPa H2O and 690â€“800Â°C: compositional variability of melts during the onset of H2O-saturated crustal anatexis. Contributions To Mineralogy and Petrology, 2006, 151, 539-557.	3.1	71
8	Microstructures and composition of melt inclusions in a crustal anatectic environment, represented by metapelitic enclaves within El Hoyazo dacites, SE Spain. Chemical Geology, 2007, 237, 450-465.	3.3	69
9	The H2O content of granite embryos. Earth and Planetary Science Letters, 2014, 395, 281-290.	4.4	64
10	Immiscibility between carbonic fluids and granitic melts during crustal anatexis: A fluid and melt inclusion study in the enclaves of the Neogene Volcanic Province of SE Spain. Chemical Geology, 2007, 237, 433-449.	3.3	58
11	Dissolution of Corundum and Andalusite in H2O-Saturated Haplogranitic Melts at 800Â°C and 200 MPa: Constraints on Diffusivities and the Generation of Peraluminous Melts. Journal of Petrology, 2002, 43, 1885-1908.	2.8	54
12	Nanogranite inclusions in migmatitic garnet: behavior during pistonâ€cylinder remelting experiments. Geofluids, 2013, 13, 405-420.	0.7	54
13	Neoproterozoic granitoids in the basement of the Moroccan Central Meseta: Correlation with the Anti-Atlas at the NW paleo-margin of Gondwana. Precambrian Research, 2017, 299, 34-57.	2.7	49
14	The Extent of Equilibration between Melt and Residuum during Regional Anatexis and its Implications for Differentiation of the Continental Crust: a Study of Partially Melted Metapelitic Enclaves. Journal of Petrology, 2012, 53, 1319-1356.	2.8	47
15	Dissolution of Quartz, Albite, and Orthoclase in H2O-Saturated Haplogranitic Melt at 800Â°C and 200 MPa: Diffusive Transport Properties of Granitic Melts at Crustal Anatectic Conditions. Journal of Petrology, 2006, 47, 231-254.	2.8	45
16	Age of anatexis in the crustal footwall of the Ronda peridotites, S Spain. Lithos, 2014, 210-211, 147-167.	1.4	43
17	The composition of nanogranitoids in migmatites overlying the Ronda peridotites (Betic Cordillera, S) Tj ETQq1 1 0.784314 rgBT /Ove Petrology, 2016, 171, 1.	3.1	43
18	Melt inclusions in migmatites and granulites. Journal of the Virtual Explorer, 0, 38, .	0.0	43

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19	Phase equilibria constraints on melting of stromatic migmatites from <scp>R</scp>onda (S.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 2013, 31, 775-789.	3.4	39
20	Microstructures and petrology of melt inclusions in the anatectic sequence of Jubrique (Betic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.4	37
21	Contrasting behaviour of boron during crustal anatexis. Lithos, 2001, 56, 15-31.	1.4	33
22	Diffusive equilibration between hydrous metaluminous-peraluminous haplogranite liquid couples at 200ÂMPa (H2O) and alkali transport in granitic liquids. Contributions To Mineralogy and Petrology, 2008, 155, 257-269.	3.1	31
23	Experimental simulations of anatexis and assimilation involving metapelite and granitic melt. Lithos, 2012, 153, 292-307.	1.4	30
24	Primary crustal melt compositions: Insights into the controls, mechanisms and timing of generation from kinetics experiments and melt inclusions. Lithos, 2017, 286-287, 454-479.	1.4	29
25	Using nanogranitoids and phase equilibria modeling to unravel anatexis in the crustal footwall of the Ronda peridotites (Betic Cordillera, S Spain). Lithos, 2016, 256-257, 282-299.	1.4	28
26	Contrasting interactions of sodium and potassium with H2O in haplogranitic liquids and glasses at 200ÂMPa from hydrationâ€“diffusion experiments. Contributions To Mineralogy and Petrology, 2005, 149, 276-287.	3.1	27
27	Chemical diffusion of major components in granitic liquids: Implications for the rates of homogenization of crustal melts. Lithos, 2012, 153, 308-323.	1.4	27
28	Hyperextension of continental to oceanic-like lithosphere: The record of late gabbros in the shallow subcontinental lithospheric mantle of the westernmost Mediterranean. Tectonophysics, 2015, 650, 65-79.	2.2	22
29	Geochemistry of Eocene-Early Oligocene low-temperature crustal melts from Greater Himalayan Sequence (Nepal): a nanogranitoid perspective. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	19
30	Sr-Nd-Pb isotopic systematics of crustal rocks from the western Betics (S. Spain): Implications for crustal recycling in the lithospheric mantle beneath the westernmost Mediterranean. Lithos, 2017, 276, 45-61.	1.4	16
31	Late Cadomian rifting of the NW Gondwana margin and the reworking of Precambrian crust â€“ evidence from bimodal magmatism in the early Paleozoic Moroccan Meseta. International Geology Review, 2021, 63, 2013-2036.	2.1	13
32	On the stability of magmatic cordierite and new thermobarometric equations for cordierite-saturated liquids. Contributions To Mineralogy and Petrology, 2014, 167, 1.	3.1	10
33	Flow in the western Mediterranean shallow mantle: Insights from xenoliths in Pliocene alkali basalts from SE Iberia (eastern Betics, Spain). Tectonics, 2016, 35, 2657-2676.	2.8	10
34	Multi-stage evolution of the lithospheric mantle beneath the westernmost Mediterranean: Geochemical constraints from peridotite xenoliths in the eastern Betic Cordillera (SE Spain). Lithos, 2017, 276, 75-89.	1.4	10
35	Geochemistry of phosphorus and the behavior of apatite during crustal anatexis: Insights from melt inclusions and nanogranitoids. American Mineralogist, 2019, 104, 1765-1780.	1.9	10
36	Serpentinization-driven extension in the Ronda mantle slab (Betic Cordillera, S. Spain). Gondwana Research, 2016, 37, 205-215.	6.0	6

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37	Alpine Metamorphism in the Betic Internal Zones. Regional Geology Reviews, 2019, , 519-544.	1.2	5
38	Mesozoic and Cenozoic Magmatism in the Betics. Regional Geology Reviews, 2019, , 545-566.	1.2	1
39	Mapping the distribution of melt during anatexis at the source area of crustal granites by synchrotron Î¼-XRF. American Mineralogist, 2018, 103, 1719-1733.	1.9	0