Pilar Montero

List of Publications by Year
in descending order

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97	5,835	71102	74163
papers	citations	41 h-index	75 g-index

99	99	99	3358
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Residence of REE, Y, Th and U in Granites and Crustal Protoliths; Implications for the Chemistry of Crustal Melts. Journal of Petrology, 1996, 37, 521-552.	2.8	846
2	Mineral/leucosome trace-element partitioning in a peraluminous migmatite (a laser ablation-ICP-MS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	587
3	Behavior of accessory phases and redistribution of Zr, REE, Y, Th, and U during metamorphism and partial melting of metapelites in the lower crust: an example from the Kinzigite Formation of Ivrea-Verbano, NW Italy. Geochimica Et Cosmochimica Acta, 1999, 63, 1133-1153.	3.9	379
4	A LA-ICP-MS EVALUATION OF Zr RESERVOIRS IN COMMON CRUSTAL ROCKS: IMPLICATIONS FOR Zr AND Hf GEOCHEMISTRY, AND ZIRCON-FORMING PROCESSES. Canadian Mineralogist, 2006, 44, 693-714.	1.0	155
5	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
6	Zircon Inheritance Reveals Exceptionally Fast Crustal Magma Generation Processes in Central Iberia during the Cambro-Ordovician. Journal of Petrology, 2007, 48, 2327-2339.	2.8	150
7	Platinum-group elements as petrological indicators in mafic-ultramafic complexes of the central and southern Urals: preliminary results. Tectonophysics, 1997, 276, 181-194.	2.2	130
8	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
9	Structural and geochronological constraints on the evolution of the Bou Azzer Neoproterozoic ophiolite (Anti-Atlas, Morocco). Precambrian Research, 2010, 182, 1-14.	2.7	114
10	The Nature, Origin, and Thermal Influence of the Granite Source Layer of Central Iberia. Journal of Geology, 2003, 111, 579-595.	1.4	110
11	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
12	Two distinct Late Mesoproterozoic/Early Neoproterozoic basement provinces in central/eastern Dronning Maud Land, East Antarctica: The missing link, 15â€“21Â°E. Precambrian Research, 2015, 265, 249-272.	2.7	89
13	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
14	Ediacaran to Lower Ordovician age for rocks ascribed to the Schistâ€“Graywacke Complex (Iberian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 22, 928-942.	6.0	87
15	Accurate determination of 87Rb/86Sr and 147Sm/144Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis. Analytica Chimica Acta, 1998, 358, 227-233.	5.4	83
16	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
17	Zircon ages of the metavolcanic rocks and metagranites of the Ollo de Sapo Domain in central Spain: implications for the Neoproterozoic to Early Palaeozoic evolution of Iberia. Geological Magazine, 2007, 144, 963-976.	1.5	82
18	Uralian magmatism: an overview. Tectonophysics, 1997, 276, 87-102.	2.2	81

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19	Zircon Geochronology of the Ollo de Sapo Formation and the Age of the Cambro-Ordovician Rifting in Iberia. Journal of Geology, 2009, 117, 174-191.	1.4	79
20	Peraluminous granites frequently with mantle-like isotope compositions: the continental-type Murzinka and Dzhabyk batholiths of the eastern Urals. International Journal of Earth Sciences, 2002, 91, 3-19.	1.8	78
21	Pressure-Dependence of Rare Earth Element Distribution in Amphibolite- and Granulite- Grade Garnets. A LA-ICP-MS Study. Geostandards and Geoanalytical Research, 1997, 21, 253-270.	3.1	74
22	New insights from Uâ€“Pb zircon dating of Early Ordovician magmatism on the northern Gondwana margin: The Urra Formation (SW Iberian Massif, Portugal). Tectonophysics, 2008, 461, 114-129.	2.2	74
23	Recycling of continental crust into the mantle as revealed by Kytlym dunite zircons, Ural Mts, Russia. Terra Nova, 2001, 13, 407-412.	2.1	72
24	Deformation-driven differentiation of granitic magma: the Stepninsk pluton of the Uralides, Russia. Lithos, 2005, 81, 209-233.	1.4	72
25	U-Pb ion microprobe dating and Sr and Nd isotope geology of the GaliÃ±eiro Igneous Complex. Lithos, 2009, 107, 227-238.	1.4	72
26	Zircon dating, Sr and Nd isotopes, and element geochemistry of the Khalifan pluton, NW Iran: Evidence for Variscan magmatism in a supposedly Cimmerian superterrane. Journal of Asian Earth Sciences, 2011, 40, 172-179.	2.3	72
27	Anomalous alkaline rocks of Soustov, Kola: evidence of mantle-derived metasomatic fluids affecting crustal materials. Contributions To Mineralogy and Petrology, 2001, 140, 554-566.	3.1	70
28	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
29	Geochronological data on the Rabatâ€“Tiflet granitoids: Their bearing on the tectonics of the Moroccan Variscides. Journal of African Earth Sciences, 2010, 57, 1-13.	2.0	67
30	Age, Geochemistry and Petrogenesis of the Ultramafic Pipes in the Ivrea Zone, NW Italy. Journal of Petrology, 2001, 42, 433-457.	2.8	65
31	Uâ€“Pb Zircon geochronology of the Cambro-Ordovician metagranites and metavolcanic rocks of central and NW Iberia. International Journal of Earth Sciences, 2013, 102, 1-23.	1.8	59
32	Single-zircon evaporation ages and Rbâ€“Sr dating of four major Variscan batholiths of the Urals. Tectonophysics, 2000, 317, 93-108.	2.2	58
33	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
34	Kola alkaline province in the Paleozoic: evaluation of primary mantle magma composition and magma generation conditions. Russian Journal of Earth Sciences, 2001, 3, 1-32.	0.7	52
35	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
36	Generation and evolution of subduction-related batholiths from the central Urals: constraints on the P-T history of the Uralian orogen. Tectonophysics, 1997, 276, 103-116.	2.2	50

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37	The â^¼4844Ma Moneiga quartz-diorites of the Sinai, Egypt: Evidence for Andean-type arc or rift-related magmatism in the Arabian-Nubian Shield?. Precambrian Research, 2009, 175, 161-168.	2.7	47
38	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
39	Microanalysis of minerals by an Excimer UV-LA-ICP-MS system. Chemical Geology, 1996, 133, 145-156.	3.3	44
40	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
41	Timing of Archean crust formation and cratonization in the Awsard-Tichla zone of the NW Reguibat Rise, West African Craton: A SHRIMP, Ndâ€“Sr isotopes, and geochemical reconnaissance study. Precambrian Research, 2014, 242, 112-137.	2.7	41
42	Palaeogeography and crustal evolution of the Ossaâ€“Morena Zone, southwest Iberia, and the North Gondwana margin during the Cambro-Ordovician: a review of isotopic evidence. International Geology Review, 2017, 59, 94-130.	2.1	41
43	2.46Ga kalsilite and nepheline syenites from the Awsard pluton, Reguibat Rise of the West African Craton, Morocco. Generation of extremely K-rich magmas at the Archeanâ€“Proterozoic transition. Precambrian Research, 2013, 224, 242-254.	2.7	40
44	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
45	SHRIMP dating and Nd isotope geology of the Archean terranes of the Uweinat-Kamil inlier, Egyptâ€“Sudanâ€“Libya. Precambrian Research, 2011, 189, 328-346.	2.7	39
46	Metamorphic and deformational imprint of Cambrianâ€“Lower Ordovician rifting in the Ossa-Morena Zone (Iberian Massif, Spain). Journal of Structural Geology, 2003, 25, 2077-2087.	2.3	38
47	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
48	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
49	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
50	The Calzadilla Ophiolite (SW Iberia) and the Ediacaran fore-arc evolution of the African margin of Gondwana. Gondwana Research, 2018, 58, 71-86.	6.0	32
51	Granitoids of the Uralides: Implications for the evolution of the orogen. Geophysical Monograph Series, 2002, , 211-232.	0.1	31
52	Jurassic guyots on the Southern Iberian Continental Margin: a model of isolated carbonate platforms on volcanic submarine edifices. Terra Nova, 1997, 9, 163-166.	2.1	30
53	Diffusion-induced disturbances of the Uâ€“Pb isotope system in pre-magmatic zircon and their influence on SIMS dating. A numerical study. Chemical Geology, 2013, 349-350, 1-17.	3.3	30
54	Geodynamic settings and history of the Paleozoic intrusive magmatism of the central and southern Urals: Results of zircon dating. Geotectonics, 2007, 41, 465-486.	0.9	29

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55	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
56	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 69	1.4	28
57	Trace elements in minerals as indicators of the evolution of alkaline ultrabasic dike series: LA-ICP-MS data for the magmatic provinces of northeastern Fennoscandia and Germany. Petrology, 2009, 17, 46-72.	0.9	27
58	Protolith ages of eclogites, Marun-Keu Complex, Polar Urals, Russia: implications for the pre- and early Uralian evolution of the northeastern European continental margin. Geological Society Memoir, 2004, 30, 87-105.	1.7	25
59	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
60	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
61	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
62	Zircon stability grids in crustal partial melts: implications for zircon inheritance. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	23
63	Proterozoic Gremyakha-Vyrmes Polyphase Massif, Kola Peninsula: An example of mixing basic and alkaline mantle melts. Petrology, 2006, 14, 361-389.	0.9	20
64	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
65	Mineralogical evidence for lamproite magma mixing and storage at mantle depths: Socovos fault lamproites, SE Spain. Lithos, 2016, 266-267, 182-201.	1.4	18
66	Experimental evidence for the preservation of U-Pb isotope ratios in mantle-recycled crustal zircon grains. Scientific Reports, 2018, 8, 12904.	3.3	18
67	Zircon xenocryst evidence for crustal recycling at the Mid-Atlantic Ridge. Lithos, 2020, 354-355, 105361.	1.4	18
68	Isotopic-geochemical features and age of zircons in dunites of the platinum-bearing type Uralian massifs: Petrogenetic implications. Petrology, 2009, 17, 503-520.	0.9	17
69	Four decades of geochronological work in the Southern and Middle Urals: A review. Geophysical Monograph Series, 2002, , 233-255.	0.1	16
70	Initial Pangean rifting north of the West African Craton: Insights from late Permian U-Pb and 40Ar/39Ar dating of alkaline magmatism from the Eastern Anti-Atlas (Morocco). Journal of Geodynamics, 2019, 132, 101670.	1.6	15
71	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
72	Zircon crystallization in low-Zr mafic magmas: Possible or impossible?. Chemical Geology, 2022, 602, 120898.	3.3	14

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73	Polygenous zircons in the Adui batholith (middle Urals). Doklady Earth Sciences, 2006, 410, 1096-1100.	0.7	13
74	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
75	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
76	The Uâ€“Pb SHRIMP age of zircons from diorites of the Tominoâ€“Bereznyaki ore field (<i>South Urals,) Tj ETQq0 0 0 rgBT /Overlock 10 54, 1332-1339.	0.7	11
77	The polychronous nature of zircons in gabbroids of the Ural Platinum Belt and the issue of the Precambrian in the Tagil Synclinorium. Doklady Earth Sciences, 2007, 413, 457-461.	0.7	10
78	Petrogenesis of Derraman Peralkaline granite (Oulad Dlim Massif, West African Craton Margin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 Geoscience, 2018, 350, 236-244.	1.2	10
79	The Archean kalsilite-nepheline syenites of the Awsard intrusive massif (Reguibat Shield, West African) Tj ETQq1 1 0.784314 rgBT /Ov Sciences, 2017, 127, 16-50.	2.0	9
80	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
81	Title is missing!. Estudios Geologicos, 1999, 55, .	0.2	9
82	Intrusive magmatism during early evolutionary stages of the Ural epioceanic orogen: U-Pb geochronology (LA ICP MS, NORDSIM, and SHRIMP II), geochemistry, and evolutionary tendencies. Geochemistry International, 2009, 47, 143-162.	0.7	8
83	Rare earth elements in rocks and minerals from alkaline plutons of the Kola Peninsula, NW Russia, as indicators of alkaline magma evolution. Russian Journal of Earth Sciences, 2002, 4, 187-209.	0.7	7
84	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
85	The Beni Bousera marbles, record of a Triassic-Early Jurassic hyperextended margin in the Alpujarrides-Sebtides units (Rif belt, Morocco). Bulletin - Societie Geologique De France, 2021, 192, 26.	2.2	6
86	Uâ€“Pb Dating, Oxygen and Hafnium Isotope Ratios of Zircon from Rocks of Oceanic Core Complexes at the Mid-Atlantic Ridge: Evidence for the Interaction of Contemporary and Ancient Crusts in the Spreading Center of the Ocean Floor. Doklady Earth Sciences, 2019, 489, 1396-1401.	0.7	5
87	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
88	Multiple Melting of a Heterogeneous Mantle and Episodic Accretion of Oceanic Crust in a Spreading Zone: Zircon U-Pb Age and Hf-O Isotope Evidence from an Oceanic Core Complex of the Mid-Atlantic Ridge. Petrology, 2022, 30, 1-24.	0.9	5
89	Age and Isotope-Geochemical Features of the Murzinkaâ€“Adui Metamorphic Complex in Connection with the Problem of Formation of the Murzinka Interformational Granite Pluton. Russian Geology and Geophysics, 2019, 60, 287-308.	0.7	4
90	Age of zircon from apoharzburgite serpentinite representing mantle of the Uralian paleoocean. Geochemistry International, 2017, 55, 675-682.	0.7	3

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91	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
92	Zircons and the problem of Precambrian in the main granite belt of the Urals: Evidence from the Kozhubaevo Metamorphic Complex. Doklady Earth Sciences, 2006, 408, 612-616.	0.7	2
93	Evidence for Sveconorwegian (Grenvillian) magmatic activity in the Northwestern Baltic Shield. Doklady Earth Sciences, 2006, 410, 1034-1037.	0.7	2
94	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
95	On the Seventh Hutton Symposium on the origin of granites and related rocks. Lithos, 2012, 153, 1-2.	1.4	0
96	Zircon U–Pb geochronology and Sr-Nd-O isotopic constraints on the petrogenesis of the JÃ¡lama pluton (Central Iberian Zone, Spain). Lithos, 2021, 386-387, 106002.	1.4	0
97	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