

# Pilar Montero

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4143986/publications.pdf>

Version: 2024-02-01

97  
papers

5,835  
citations

71102

41  
h-index

74163

75  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3358  
citing authors

#	ARTICLE	IF	CITATIONS
1	The roles of partial melting of metasomatised mantle, magma mixing at continental crust level and fractionation in calc-alkaline minette genesis, SE Spain. <i>International Geology Review</i> , 2024, 66, 463-503.	2.1	0
2	Experimental Annealing of Zircon: Influence of Inclusions on Stability, Intracrystalline Melt Migration, Common Lead Leaching, and Permeability to Fluids. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 288-307.	2.7	3
3	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. <i>Petrology</i> , 2022, 30, 1-24.	0.9	5
4	Zircon crystallization in low-Zr mafic magmas: Possible or impossible?. <i>Chemical Geology</i> , 2022, 602, 120898.	3.3	14
5	The Beni Bousera marbles, record of a Triassic-Early Jurassic hyperextended margin in the Alpujarrides-Sebtides units (Rif belt, Morocco). <i>Bulletin - Societe Geologique De France</i> , 2021, 192, 26.	2.2	6
6	Zircon stability grids in crustal partial melts: implications for zircon inheritance. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	23
7	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. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 431.	2.0	5
8	Zircon U-Pb geochronology and Sr-Nd-O isotopic constraints on the petrogenesis of the Jálama pluton (Central Iberian Zone, Spain). <i>Lithos</i> , 2021, 386-387, 106002.	1.4	0
9	A reassessment of the amphibole-plagioclase NaSi-CaAl exchange thermometer with applications to igneous and high-grade metamorphic rocks. <i>American Mineralogist</i> , 2021, 106, 782-800.	1.9	14
10	Contrasting high-Mg, high-K rocks in Central Iberia: the appinite-vaugnerite conundrum and their (non-existent) relation with arc magmatism. <i>Journal of Iberian Geology</i> , 2021, 47, 235-261.	1.3	12
11	Zircon xenocryst evidence for crustal recycling at the Mid-Atlantic Ridge. <i>Lithos</i> , 2020, 354-355, 105361.	1.4	18
12	The Archean to Late-Paleozoic architecture of the Oulad Dlim Massif, the main Gondwanan indenter during the collision with Laurentia. <i>Earth-Science Reviews</i> , 2020, 208, 103273.	9.1	19
13	Initial Pangean rifting north of the West African Craton: Insights from late Permian U-Pb and <sup>40</sup> Ar/ <sup>39</sup> Ar dating of alkaline magmatism from the Eastern Anti-Atlas (Morocco). <i>Journal of Geodynamics</i> , 2019, 132, 101670.	1.6	15
14	Quartzite crests in Paleoproterozoic granites (Anti-Atlas, Morocco); a hint to Pan-African deformation of the West African Craton margin. <i>Journal of African Earth Sciences</i> , 2019, 157, 103501.	2.0	6
15	Age and Isotope-Geochemical Features of the Murzinka "Adui Metamorphic Complex in Connection with the Problem of Formation of the Murzinka Interformational Granite Pluton. <i>Russian Geology and Geophysics</i> , 2019, 60, 287-308.	0.7	4
16	U-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. <i>Doklady Earth Sciences</i> , 2019, 489, 1396-1401.	0.7	5
17	Constraints of mantle and crustal sources and interaction during orogenesis: A zircon SHRIMP U-Th-Pb and O isotope study of the calc-alkaline Brovales pluton, Ossa-Morena Zone, Iberian Variscan Belt. <i>Lithos</i> , 2019, 324-325, 661-683.	1.4	12
18	The Calzadilla Ophiolite (SW Iberia) and the Ediacaran fore-arc evolution of the African margin of Gondwana. <i>Gondwana Research</i> , 2018, 58, 71-86.	6.0	32

#	ARTICLE	IF	CITATIONS
19	Lu-Hf ratios of crustal rocks and their bearing on zircon Hf isotope model ages: The effects of accessories. <i>Chemical Geology</i> , 2018, 484, 179-190.	3.3	34
20	Experimental evidence for the preservation of U-Pb isotope ratios in mantle-recycled crustal zircon grains. <i>Scientific Reports</i> , 2018, 8, 12904.	3.3	18
21	Petrogenesis of Derraman Peralkaline granite (Oulad Dlim Massif, West African Craton Margin,) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> <i>Geoscience</i> , 2018, 350, 236-244.	1.2	10
22	High-P amphibolite-facies metamorphism in the Adrarâ€“Souttoug Metamafic Complex, Oulad Dlim Massif (West African Craton margin, Morocco). <i>Comptes Rendus - Geoscience</i> , 2018, 350, 245-254.	1.2	9
23	Age of zircon from apoharzburgite serpentinite representing mantle of the Uralian paleocean. <i>Geochemistry International</i> , 2017, 55, 675-682.	0.7	3
24	The Archean kalsilite-nepheline syenites of the Awsard intrusive massif (Reguibat Shield, West African) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> <i>Sciences</i> , 2017, 127, 16-50.	2.0	9
25	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. <i>International Geology Review</i> , 2017, 59, 94-130.	2.1	41
26	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. <i>Lithos</i> , 2016, 258-259, 173-196.	1.4	46
27	Mineralogical evidence for lamproite magma mixing and storage at mantle depths: Socovos fault lamproites, SE Spain. <i>Lithos</i> , 2016, 266-267, 182-201.	1.4	18
28	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. <i>Gondwana Research</i> , 2016, 38, 238-250.	6.0	33
29	First evidence for Cambrian rift-related magmatism in the West African Craton margin: The Derraman Peralkaline Felsic Complex. <i>Gondwana Research</i> , 2016, 36, 423-438.	6.0	29
30	Two distinct Late Mesoproterozoic/Early Neoproterozoic basement provinces in central/eastern Dronning Maud Land, East Antarctica: The missing link, 15â€“21Â°E. <i>Precambrian Research</i> , 2015, 265, 249-272.	2.7	89
31	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. <i>Gondwana Research</i> , 2015, 28, 735-756.	6.0	34
32	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. <i>Lithos</i> , 2014, 192-195, 56-85.	1.4	88
33	Kalsilite-bearing plutonic rocks: The deep-seated Archean Awsard massif of the Reguibat Rise, South Morocco, West African Craton. <i>Earth-Science Reviews</i> , 2014, 138, 1-24.	9.1	25
34	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. <i>Precambrian Research</i> , 2014, 242, 112-137.	2.7	41
35	Uâ€“Pb Zircon geochronology of the Cambro-Ordovician metagranites and metavolcanic rocks of central and NW Iberia. <i>International Journal of Earth Sciences</i> , 2013, 102, 1-23.	1.8	59
36	The Uâ€“Pb SHRIMP age of zircons from diorites of the Tominoâ€“Bereznyaki ore field (<i>South Urals,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> <i>Sciences</i> , 2013, 1332-1339.	0.7	11

#	ARTICLE	IF	CITATIONS
37	Diffusion-induced disturbances of the U <sup>238</sup> /Pb isotope system in pre-magmatic zircon and their influence on SIMS dating. A numerical study. <i>Chemical Geology</i> , 2013, 349-350, 1-17.	3.3	30
38	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 Archean-Proterozoic transition. <i>Precambrian Research</i> , 2013, 224, 242-254.	2.7	40
39	Ediacaran to Lower Ordovician age for rocks ascribed to the Schist-Graywacke Complex (Iberian) Tj ETQq1 1 0.784314 rgBT /Overlock 20 Tf 50 6	6.0	87
40	Anomalous xenocryst dispersion during tonalite-granodiorite crystal mush hybridization in the mid crust: Mineralogical and geochemical evidence from Variscan appinites (Avila Batholith, Central)	1.4	0
41	On the Seventh Hutton Symposium on the origin of granites and related rocks. <i>Lithos</i> , 2012, 153, 1-2.	1.4	0
42	SHRIMP U <sup>238</sup> /Pb zircon dating of the Katerina Ring Complex: Insights into the temporal sequence of Ediacaran calc-alkaline to peralkaline magmatism in southern Sinai, Egypt. <i>Gondwana Research</i> , 2012, 21, 887-900.	6.0	44
43	Lamprophyre dikes as tectonic markers of late orogenic transtension timing and kinematics: A case study from the Central Iberian Zone. <i>Tectonics</i> , 2011, 30, .	2.8	39
44	Zircon dating, Sr and Nd isotopes, and element geochemistry of the Khalifan pluton, NW Iran: Evidence for Variscan magmatism in a supposedly Cimmerian superterrane. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 172-179.	2.3	72
45	SHRIMP dating and Nd isotope geology of the Archean terranes of the Uweinat-Kamil inlier, Egypt-Sudan-Libya. <i>Precambrian Research</i> , 2011, 189, 328-346.	2.7	39
46	The Bir Safsaf Precambrian inlier of South West Egypt revisited. A model for ~1.5Ga TDM late Pan-African granite generation by crustal reworking. <i>Lithos</i> , 2011, 125, 897-914.	1.4	23
47	Geochronological data on the Rabat-Tiflet granitoids: Their bearing on the tectonics of the Moroccan Variscides. <i>Journal of African Earth Sciences</i> , 2010, 57, 1-13.	2.0	67
48	The palaeogeographic position of Central Iberia in Gondwana during the Ordovician: evidence from zircon chronology and Nd isotopes. <i>Terra Nova</i> , 2010, 22, 341-346.	2.1	83
49	Structural and geochronological constraints on the evolution of the Bou Azzer Neoproterozoic ophiolite (Anti-Atlas, Morocco). <i>Precambrian Research</i> , 2010, 182, 1-14.	2.7	114
50	Reply to discussion on the Eocene bimodal Piranshahr massif of the Sanandaj-Sirjan Zone, West Iran: a marker of the end of collision in the Zagros orogen. <i>Journal of the Geological Society</i> , 2009, 166, 983-984.	2.1	1
51	The Eocene bimodal Piranshahr massif of the Sanandaj-Sirjan Zone, NW Iran: a marker of the end of the collision in the Zagros orogen. <i>Journal of the Geological Society</i> , 2009, 166, 53-69.	2.1	125
52	U-Pb ion microprobe dating and Sr and Nd isotope geology of the Gali-zeiro Igneous Complex. <i>Lithos</i> , 2009, 107, 227-238.	1.4	72
53	Within-plate calc-alkaline rocks: Insights from alkaline mafic magma-peraluminous crustal melt hybrid appinites of the Central Iberian Variscan continental collision. <i>Lithos</i> , 2009, 110, 50-64.	1.4	57
54	High-Ti amphibole as a petrogenetic indicator of magma chemistry: evidence for mildly alkalic-hybrid melts during evolution of Variscan basic-ultrabasic magmatism of Central Iberia. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 69-98.	3.1	103

#	ARTICLE	IF	CITATIONS
55	Intrusive magmatism during early evolutionary stages of the Ural epiocenic orogen: U-Pb geochronology (LA ICP MS, NORDSIM, and SHRIMP II), geochemistry, and evolutionary tendencies. <i>Geochemistry International</i> , 2009, 47, 143-162.	0.7	8
56	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. <i>Petrology</i> , 2009, 17, 46-72.	0.9	27
57	Isotopic-geochemical features and age of zircons in dunites of the platinum-bearing type Uralian massifs: Petrogenetic implications. <i>Petrology</i> , 2009, 17, 503-520.	0.9	17
58	The $^{40}\text{Ar}/^{39}\text{Ar}$ Moneiga quartz-diorites of the Sinai, Egypt: Evidence for Andean-type arc or rift-related magmatism in the Arabian-Nubian Shield?. <i>Precambrian Research</i> , 2009, 175, 161-168.	2.7	47
59	Zircon Geochronology of the Ollo de Sapo Formation and the Age of the Cambro-Ordovician Rifting in Iberia. <i>Journal of Geology</i> , 2009, 117, 174-191.	1.4	79
60	New insights from U-Pb zircon dating of Early Ordovician magmatism on the northern Gondwana margin: The Urro Formation (SW Iberian Massif, Portugal). <i>Tectonophysics</i> , 2008, 461, 114-129.	2.2	74
61	Shoshonites, vaugnerites and potassic lamprophyres: similarities and differences between ultra-high-K rocks. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2008, 99, 159-175.	0.3	25
62	Zircon Inheritance Reveals Exceptionally Fast Crustal Magma Generation Processes in Central Iberia during the Cambro-Ordovician. <i>Journal of Petrology</i> , 2007, 48, 2327-2339.	2.8	150
63	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. <i>Geological Magazine</i> , 2007, 144, 963-976.	1.5	82
64	Geodynamic settings and history of the Paleozoic intrusive magmatism of the central and southern Urals: Results of zircon dating. <i>Geotectonics</i> , 2007, 41, 465-486.	0.9	29
65	The polychronous nature of zircons in gabbroids of the Ural Platinum Belt and the issue of the Precambrian in the Tagil Synclinorium. <i>Doklady Earth Sciences</i> , 2007, 413, 457-461.	0.7	10
66	A LA-ICP-MS EVALUATION OF Zr RESERVOIRS IN COMMON CRUSTAL ROCKS: IMPLICATIONS FOR Zr AND Hf GEOCHEMISTRY, AND ZIRCON-FORMING PROCESSES. <i>Canadian Mineralogist</i> , 2006, 44, 693-714.	1.0	155
67	Proterozoic Greymykh-Vyrmes Polyphase Massif, Kola Peninsula: An example of mixing basic and alkaline mantle melts. <i>Petrology</i> , 2006, 14, 361-389.	0.9	20
68	Zircons and the problem of Precambrian in the main granite belt of the Urals: Evidence from the Kozhubaev Metamorphic Complex. <i>Doklady Earth Sciences</i> , 2006, 408, 612-616.	0.7	2
69	Evidence for Sveconorwegian (Grenvillian) magmatic activity in the Northwestern Baltic Shield. <i>Doklady Earth Sciences</i> , 2006, 410, 1034-1037.	0.7	2
70	Polygenous zircons in the Adui batholith (middle Urals). <i>Doklady Earth Sciences</i> , 2006, 410, 1096-1100.	0.7	13
71	Zircon thermometry and U-Pb ion-microprobe dating of the gabbros and associated migmatites of the Variscan Toledo Anatectic Complex, Central Iberia. <i>Journal of the Geological Society</i> , 2006, 163, 847-855.	2.1	67
72	Deformation-driven differentiation of granitic magma: the Stepninsk pluton of the Uralides, Russia. <i>Lithos</i> , 2005, 81, 209-233.	1.4	72

#	ARTICLE	IF	CITATIONS
73	Protolith ages of eclogites, Marun-Keu Complex, Polar Urals, Russia: implications for the pre- and early Uralian evolution of the northeastern European continental margin. <i>Geological Society Memoir</i> , 2004, 30, 87-105.	1.7	25
74	55 million years of continuous anatexis in Central Iberia: single-zircon dating of the PenÌfa Negra Complex. <i>Journal of the Geological Society</i> , 2004, 161, 255-263.	2.1	51
75	Metamorphic and deformational imprint of Cambrian–Lower Ordovician rifting in the Ossa-Morena Zone (Iberian Massif, Spain). <i>Journal of Structural Geology</i> , 2003, 25, 2077-2087.	2.3	38
76	The Nature, Origin, and Thermal Influence of the Granite Source Layer of Central Iberia. <i>Journal of Geology</i> , 2003, 111, 579-595.	1.4	110
77	Granitoids of the Uralides: Implications for the evolution of the orogen. <i>Geophysical Monograph Series</i> , 2002, , 211-232.	0.1	31
78	Four decades of geochronological work in the Southern and Middle Urals: A review. <i>Geophysical Monograph Series</i> , 2002, , 233-255.	0.1	16
79	Peraluminous granites frequently with mantle-like isotope compositions: the continental-type Murzinka and Dzhabyk batholiths of the eastern Urals. <i>International Journal of Earth Sciences</i> , 2002, 91, 3-19.	1.8	78
80	Rare earth elements in rocks and minerals from alkaline plutons of the Kola Peninsula, NW Russia, as indicators of alkaline magma evolution. <i>Russian Journal of Earth Sciences</i> , 2002, 4, 187-209.	0.7	7
81	Anomalous alkaline rocks of Soustov, Kola: evidence of mantle-derived metasomatic fluids affecting crustal materials. <i>Contributions To Mineralogy and Petrology</i> , 2001, 140, 554-566.	3.1	70
82	Recycling of continental crust into the mantle as revealed by Kytlym dunite zircons, Ural Mts, Russia. <i>Terra Nova</i> , 2001, 13, 407-412.	2.1	72
83	Age, Geochemistry and Petrogenesis of the Ultramafic Pipes in the Ivrea Zone, NW Italy. <i>Journal of Petrology</i> , 2001, 42, 433-457.	2.8	65
84	Kola alkaline province in the Paleozoic: evaluation of primary mantle magma composition and magma generation conditions. <i>Russian Journal of Earth Sciences</i> , 2001, 3, 1-32.	0.7	52
85	Single-zircon evaporation ages and Rb–Sr dating of four major Variscan batholiths of the Urals. <i>Tectonophysics</i> , 2000, 317, 93-108.	2.2	58
86	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-Verbanò, NW Italy. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1133-1153.	3.9	379
87	Mafic Precursors, Peraluminous Granitoids, and Late Lamprophyres in the Avila Batholith: A Model for the Generation of Variscan Batholiths in Iberia. <i>Journal of Geology</i> , 1999, 107, 399-419.	1.4	151
88	Title is missing!. <i>Estudios Geologicos</i> , 1999, 55, .	0.2	9
89	Accurate determination of <sup>87</sup> Rb/ <sup>86</sup> Sr and <sup>147</sup> Sm/ <sup>144</sup> Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis. <i>Analytica Chimica Acta</i> , 1998, 358, 227-233.	5.4	83
90	Uralian magmatism: an overview. <i>Tectonophysics</i> , 1997, 276, 87-102.	2.2	81

#	ARTICLE	IF	CITATIONS
91	Platinum-group elements as petrological indicators in mafic-ultramafic complexes of the central and southern Urals: preliminary results. <i>Tectonophysics</i> , 1997, 276, 181-194.	2.2	130
92	Generation and evolution of subduction-related batholiths from the central Urals: constraints on the P-T history of the Uralian orogen. <i>Tectonophysics</i> , 1997, 276, 103-116.	2.2	50
93	Pressure-Dependence of Rare Earth Element Distribution in Amphibolite- and Granulite- Grade Garnets. A LA-ICP-MS Study. <i>Geostandards and Geoanalytical Research</i> , 1997, 21, 253-270.	3.1	74
94	Jurassic guyots on the Southern Iberian Continental Margin: a model of isolated carbonate platforms on volcanic submarine edifices. <i>Terra Nova</i> , 1997, 9, 163-166.	2.1	30
95	Residence of REE, Y, Th and U in Granites and Crustal Protoliths; Implications for the Chemistry of Crustal Melts. <i>Journal of Petrology</i> , 1996, 37, 521-552.	2.8	846
96	Microanalysis of minerals by an Excimer UV-LA-ICP-MS system. <i>Chemical Geology</i> , 1996, 133, 145-156.	3.3	44
97	Mineral/leucosome trace-element partitioning in a peraluminous migmatite (a laser ablation-ICP-MS) <small>Tj ETQq1 1 0.784314 rgBT./Over</small>	3.3	587