

Carlos Fernandez

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Melting Relations of MORB-Sediment Melanges in Underplated Mantle Wedge Plumes; Implications for the Origin of Cordilleran-type Batholiths. <i>Journal of Petrology</i> , 2010, 51, 1267-1295.	2.8	179
2	Cambrian ensialic rift-related magmatism in the Ossa-Morena Zone (Á%ovoraâ€“Aracena metamorphic belt,) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	106
3	Experimental Constraints on Hercynian Anatexis in the Iberian Massif, Spain. <i>Journal of Petrology</i> , 2000, 41, 1471-1488.	2.8	100
4	Development of lattice preferred orientation in clinoamphiboles deformed under low-pressure metamorphic conditions. A SEM/EBSD study of metabasites from the Aracena metamorphic belt (SW) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	106
5	Chronological link between deep-seated processes in magma chambers and eruptions: Permo-Carboniferous magmatism in the core of Pangaea (Southern Pyrenees). <i>Gondwana Research</i> , 2014, 25, 290-308.	6.0	86
6	Significance of MORB-derived Amphibolites from the Aracena Metamorphic Belt, Southwest Spain. <i>Journal of Petrology</i> , 1996, 37, 235-260.	2.8	81
7	The Appinite-Migmatite Complex of Sanabria, NW Iberian Massif, Spain. <i>Journal of Petrology</i> , 2003, 44, 1309-1344.	2.8	80
8	Petrology and SHRIMP Uâ€“Pb zircon geochronology of Cordilleran granitoids of the Bariloche area, Argentina. <i>Journal of South American Earth Sciences</i> , 2011, 32, 508-530.	1.4	76
9	Triclinic transpression zones with inclined extrusion. <i>Journal of Structural Geology</i> , 2009, 31, 1255-1269.	2.3	58
10	Age constraints to the relationships between magmatism, metamorphism and tectonism in the Aracena metamorphic belt, southern Spain. <i>International Journal of Earth Sciences</i> , 1999, 88, 26-37.	1.8	57
11	Variscan intra-orogenic extensional tectonics in the Ossa-Morena Zone (Á%ovora-Aracena-Lora del RÃ±lo) Tj ETQq1 1 0.784314 rgBT /Ov	1.3	57
12	Evidences for a Noachianâ€“Hesperian orogeny in Mars. <i>Icarus</i> , 2006, 185, 331-357.	2.5	55
13	Assessing Bulk Assimilation in Cordierite-bearing Granitoids from the Central System Batholith, Spain; Experimental, Geochemical and Geochronological Constraints. <i>Journal of Petrology</i> , 2011, 52, 223-256.	2.8	48
14	Shear zones as a result of intraplate tectonics in oceanic crust: the example of the Basal complex of fuerteventura (Canary Islands). <i>Journal of Structural Geology</i> , 1997, 19, 41-57.	2.3	47
15	Massive generation of atypical ferrosilicic magmas along the Gondwana active margin: Implications for cold plumes and back-arc magma generation. <i>Gondwana Research</i> , 2008, 14, 451-473.	6.0	45
16	Zircon geochronology of intrusive rocks from Cap de Creus, Eastern Pyrenees. <i>Geological Magazine</i> , 2014, 151, 1095-1114.	1.5	44
17	Ancient heat flow, crustal thickness, and lithospheric mantle rheology in the Amenthes region, Mars. <i>Earth and Planetary Science Letters</i> , 2008, 270, 1-12.	4.4	41
18	Granite intrusion by externally induced growth and deformation of the magma reservoir, the example of the Plasenzuela pluton, Spain. <i>Journal of Structural Geology</i> , 1998, 20, 1219-1228.	2.3	38

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19	Kinematic analysis of the southern Iberian shear zone and tectonic evolution of the Acebuches metabasites (SW Variscan Iberian Massif). <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	38
20	Applying a general triclinic transpression model to highly partitioned brittle-ductile shear zones: A case study from the Torcal de Antequera massif, external Betics, southern Spain. <i>Journal of Structural Geology</i> , 2014, 68, 316-336.	2.3	38
21	Pluton accommodation at high strain rates in the upper continental crust. The example of the Central Extremadura batholith, Spain. <i>Journal of Structural Geology</i> , 1999, 21, 1143-1149.	2.3	35
22	SHRIMP U ²³⁵ Pb zircon geochronology and thermal modeling of multilayer granitoid intrusions. <i>Lithos</i> , 2013, 175-176, 104-123.	1.4	35
23	Understanding granites: integrating new and classical techniques. <i>Geological Society Special Publication</i> , 1999, 168, 1-5.	1.3	34
24	The inception of a Paleotethyan magmatic arc in Iberia. <i>Geoscience Frontiers</i> , 2015, 6, 297-306.	8.4	32
25	Testing the model of oblique transpression with oblique extrusion in two natural cases: Steps and consequences. <i>Journal of Structural Geology</i> , 2013, 54, 85-102.	2.3	31
26	Sr-rich minerals in a carbonatite skarn, Fuerteventura, Canary Islands (Spain). <i>Mineralogy and Petrology</i> , 2005, 84, 107-127.	1.1	28
27	Ancient heat flow and crustal thickness at Warrego rise, Thaumasia highlands, Mars: Implications for a stratified crust. <i>Icarus</i> , 2009, 203, 47-57.	2.5	28
28	The submarine volcanic succession of the basal complex of Fuerteventura, Canary Islands: A model of submarine growth and emergence of tectonic volcanic islands. <i>Bulletin of the Geological Society of America</i> , 2006, 118, 785-804.	3.3	27
29	Ordovician ferrosilicic magmas: Experimental evidence for ultrahigh temperatures affecting a metagreywacke source. <i>Gondwana Research</i> , 2009, 16, 622-632.	6.0	27
30	Depth of faulting and ancient heat flows in the Kuiper region of Mercury from lobate scarp topography. <i>Planetary and Space Science</i> , 2012, 60, 193-198.	1.7	25
31	Mechanical and structural consequences of magma differentiation at ascent conduits: A possible origin for some mafic microgranular enclaves in granites. <i>Lithos</i> , 2018, 320-321, 49-61.	1.4	24
32	Fabric evidence for granodiorite emplacement with extensional shear zones in the Variscan Gredos massif (Spanish Central System). <i>Journal of Structural Geology</i> , 2012, 42, 74-90.	2.3	21
33	Tracing the Cambro-Ordovician ferrosilicic to calc-alkaline magmatic association in Iberia by in situ U ²³⁵ Pb SHRIMP zircon geochronology (Gredos massif, Spanish Central System batholith). <i>Tectonophysics</i> , 2016, 681, 95-110.	2.2	21
34	New evidence for a volcanically, tectonically, and climatically active Mars. <i>Icarus</i> , 2004, 172, 573-581.	2.5	20
35	Final stages of the Variscan orogeny at the southern Iberian massif: Lateral extrusion and rotation of continental blocks. <i>Tectonics</i> , 2004, 23, n/a-n/a.	2.8	20
36	Fractionation and incipient self-granulitization during deep-crust emplacement of Lower Ordovician Valle F�rtil batholith at the Gondwana active margin of South America. <i>Gondwana Research</i> , 2014, 25, 685-706.	6.0	19

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37	Stress fields associated with the growth of a large shield volcano (La Palma, Canary Islands). <i>Tectonics</i> , 2002, 21, 13-1-13-18.	2.8	18
38	Characterization of tectono-metamorphic events using crystal size distribution (CSD) diagrams. A case study from the Acebuches metabasites (SW Spain). <i>Journal of Structural Geology</i> , 2003, 25, 935-947.	2.3	18
39	Are we studying deformed rocks in the right sections? Best practices in the kinematic analysis of 3D deformation zones. <i>Journal of Structural Geology</i> , 2019, 125, 218-225.	2.3	18
40	Deformation mechanics in inclined, brittle-ductile transpression zones: Insights from 3D finite element modelling. <i>Journal of Structural Geology</i> , 2020, 137, 104082.	2.3	17
41	Multiple Paleozoic magmatic-orogenic events in the Central Extremadura batholith (Iberian Variscan) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.3	16
42	Structural analysis and shape-preferred orientation determination of the mÃ©lange facies in the ChaÃ±aral mÃ©lange, Las TÃ³rtolas Formation, Coastal Cordillera, northern Chile. <i>Journal of South American Earth Sciences</i> , 2016, 67, 40-56.	1.4	15
43	Structural evolution of Lavinia Planitia, Venus: Implications for the tectonics of the lowland plains. <i>Icarus</i> , 2010, 206, 210-228.	2.5	14
44	Metacarbonatites in the Basal Complex of Fuerteventura (Canary Islands). The role of fluid/rock interactions during contact metamorphism and anatexis. <i>Lithos</i> , 2011, 125, 503-520.	1.4	14
45	Water-present melting in the middle crust: The case of the Ollo de Sapo gneiss in the Iberian Massif (Spain). <i>Chemical Geology</i> , 2015, 419, 176-191.	3.3	14
46	Structural control of scarps in the Rembrandt region of Mercury. <i>Icarus</i> , 2012, 219, 511-514.	2.5	13
47	Oblique rifting at Tempe Fossae, Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
48	Cuspidineâ€“niocaliteâ€“baghdadite solid solutions in the metacarbonatites of the Basal Complex of Fuerteventura (Canary Islands). <i>Lithos</i> , 2008, 105, 25-41.	1.4	12
49	Deformation structures associated with the Tazo landslide (La Gomera, Canary Islands). <i>Bulletin of Volcanology</i> , 2010, 72, 945-960.	3.0	12
50	Miocene rifting of Fuerteventura (Canary Islands). <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	11
51	Application of the analytic model of general triclinic transpression with oblique extrusion to an active deformation zone: The Alhama de Murcia Fault (SE Iberian Peninsula). <i>Journal of Structural Geology</i> , 2020, 130, 103924.	2.3	11
52	The significance of Uâ€“Pb zircon ages in zoned plutons: the case of the Flamenco pluton, Coastal Range batholith, northern Chile. <i>Geoscience Frontiers</i> , 2019, 10, 1073-1099.	8.4	10
53	Deformation mechanisms of plagioclase and seismic anisotropy of the Acebuches metabasites (SW) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.3	9
54	The role of strain localization in magma injection into a transtensional shear zone (Variscan belt, SW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.1	9

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55	Geochemistry, petrogenesis and tectonic significance of the volcanic rocks of the Las Tortolas Formation, Coastal Cordillera, northern Chile. <i>Journal of South American Earth Sciences</i> , 2018, 87, 66-86.	1.4	8
56	Using 3D kinematic models in subduction channels. The case of the Chañaral tectonic mélange, Coastal Cordillera, northern Chile. <i>Gondwana Research</i> , 2019, 74, 251-270.	6.0	7
57	Brittle behaviour of granitic magma: the example of Puente del Congosto, Iberian Massif, Spain. <i>Geological Society Special Publication</i> , 1999, 168, 191-206.	1.3	6
58	Petrology and geochemistry of the orbicular granitoid of Caldera, northern Chile. Models and hypotheses on the formation of radial orbicular textures. <i>Lithos</i> , 2017, 284-285, 327-346.	1.4	6
59	Atypical peri-Gondwanan granodiorite-tonalite magmatism from Southern Iberia. Origin of magmas and implications. <i>Lithos</i> , 2020, 372-373, 105684.	1.4	6
60	Quartz c-axis fabrics of poly-deformed leucocratic gneisses from the Aracena metamorphic belt (SW Tj ETQq0 0 0 ggBT /Overlock 10 Tf	1.2	5
61	The unique Cambro-Ordovician silicic large igneous province of NW Gondwana: Catastrophic melting of a thinned crust. <i>Gondwana Research</i> , 2022, 106, 164-173.	6.0	5
62	Evaluating transtension on Mars: The case of Ulysses Fossae, Tharsis. <i>Journal of Structural Geology</i> , 2019, 125, 325-333.	2.3	4
63	Structural characteristics of the "Puguinos chaos" and its relationship with the Andean middle Cretaceous extensional tectonics at 27°S, northern Chile. <i>Journal of South American Earth Sciences</i> , 2020, 98, 102454.	1.4	3
64	On the Rootless Nature of a Devonian Suture in SW Iberia (Ossa-Morena Complex, Variscan Orogen): Geometry and Kinematics of the Azuaga Fault. <i>Tectonics</i> , 2021, 40, e2021TC006791.	2.8	3
65	Mesozoic tectonic evolution of the southwest continental Iberian Margin. <i>Geodinamica Acta</i> , 2005, 18, 131-144.	2.2	2
66	Reply to Comment by Azor et al. on "On the Rootless Nature of a Devonian Suture in SW Iberia (Ossa-Morena Complex, Variscan Orogen): Geometry and Kinematics of the Azuaga Fault": <i>Tectonics</i> , 2022, 41, .	2.8	2
67	Palaeostress perturbations near the El Castillo de las Guardas fault (SW Iberian Massif). <i>Journal of Structural Geology</i> , 2010, 32, 693-702.	2.3	1
68	Relation between intrusive and deformational processes in oblique subductive margins. The case of the zoned Flamenco pluton in northern Chile. <i>Journal of South American Earth Sciences</i> , 2021, 112, 103553.	1.4	1
69	Extension structures as kinematic indicators in monoclinic transpression and transtension zones. <i>Journal of Structural Geology</i> , 2022, , 104639.	2.3	1
70	Active Triclinic Transtension in a Volcanic Arc: A Case of the El Salvador Fault Zone in Central America. <i>Geosciences (Switzerland)</i> , 2022, 12, 266.	2.2	1
71	Is Earth-based scaling a valid procedure for calculating heat flows for Mars?. <i>Icarus</i> , 2013, 226, 536-540.	2.5	0
72	Deformation Belt (Venus)., 2014, , 1-5.		0

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73	The Southern Iberian Shear Zone (SW Spain): Inclined Transpression Related to Variscan Oblique Convergence in a HT/LP Metamorphic Belt. Springer Geology, 2021, , 137-166.	0.3	0
74	Deformation Belt (Venus). , 2015, , 541-544.		0