

Carlos Fernandez

List of Publications by Year in descending order

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74
papers

2,115
citations

218677

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44
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docs citations

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times ranked

1799
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Extension structures as kinematic indicators in monoclinic transpression and transtension zones. <i>Journal of Structural Geology</i> , 2022, , 104639.	2.3	1
4	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
5	The Southern Iberian Shear Zone (SW Spain): Inclined Transpression Related to Variscan Oblique Convergence in a HT/LP Metamorphic Belt. <i>Springer Geology</i> , 2021, , 137-166.	0.3	0
6	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
7	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
8	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
9	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
10	Atypical peri-Gondwanan granodiorite-tonalite magmatism from Southern Iberia. Origin of magmas and implications. <i>Lithos</i> , 2020, 372-373, 105684.	1.4	6
11	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
12	Evaluating transtension on Mars: The case of Ulysses Fossae, Tharsis. <i>Journal of Structural Geology</i> , 2019, 125, 325-333.	2.3	4
13	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
14	The significance of U-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
15	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
16	Multiple Paleozoic magmatic-orogenic events in the Central Extremadura batholith (Iberian Variscan). <i>Tectonics</i> , 2018, 37, 104082.	1.3	16
17	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
18	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

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19	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
20	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
21	Tracing the Cambro-Ordovician ferrosilicic to calc-alkaline magmatic association in Iberia by in situ UÃ©Pb SHRIMP zircon geochronology (Gredos massif, Spanish Central System batholith). <i>Tectonophysics</i> , 2016, 681, 95-110.	2.2	21
22	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
23	The inception of a Paleotethyan magmatic arc in Iberia. <i>Geoscience Frontiers</i> , 2015, 6, 297-306.	8.4	32
24	Deformation Belt (Venus). , 2015, , 541-544.		0
25	Zircon geochronology of intrusive rocks from Cap de Creus, Eastern Pyrenees. <i>Geological Magazine</i> , 2014, 151, 1095-1114.	1.5	44
26	Deformation Belt (Venus). , 2014, , 1-5.		0
27	Fractionation and incipient self-granitization during deep-crust emplacement of Lower Ordovician Valle FÃ©rtil batholith at the Gondwana active margin of South America. <i>Gondwana Research</i> , 2014, 25, 685-706.	6.0	19
28	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
29	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
30	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
31	Is Earth-based scaling a valid procedure for calculating heat flows for Mars?. <i>Icarus</i> , 2013, 226, 536-540.	2.5	0
32	SHRIMP UÃ©Pb zircon geochronology and thermal modeling of multilayer granitoid intrusions. <i>Lithos</i> , 2013, 175-176, 104-123.	1.4	35
33	The role of strain localization in magma injection into a transtensional shear zone (Variscan belt, SW Tj ETQq1 1 0,784314 rgBT /Oved	2.1	1
34	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
35	Structural control of scarps in the Rembrandt region of Mercury. <i>Icarus</i> , 2012, 219, 511-514.	2.5	13
36	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

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37	Petrology and SHRIMP U-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
38	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
39	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
40	Deformation mechanisms of plagioclase and seismic anisotropy of the Acebuches metabasites (SW Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	9
41	Deformation structures associated with the Tazo landslide (La Gomera, Canary Islands). <i>Bulletin of Volcanology</i> , 2010, 72, 945-960.	3.0	12
42	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
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	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
45	Variscan intra-orogenic extensional tectonics in the Ossa-Morena Zone (Á%vora-Aracena-Lora del R±l) Tj ETQq1 1 0.784314 rgBT / Special Publication, 2009, 327, 215-237.	1.3	57
46	Triclinic transpression zones with inclined extrusion. <i>Journal of Structural Geology</i> , 2009, 31, 1255-1269.	2.3	58
47	Ordovician ferrosilicic magmas: Experimental evidence for ultrahigh temperatures affecting a metagreywacke source. <i>Gondwana Research</i> , 2009, 16, 622-632.	6.0	27
48	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
49	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
50	Cuspidine-niocalite-baghdadite solid solutions in the metacarbonatites of the Basal Complex of Fuerteventura (Canary Islands). <i>Lithos</i> , 2008, 105, 25-41.	1.4	12
51	Cambrian ensialic rift-related magmatism in the Ossa-Morena Zone (Á%vora-Aracena metamorphic belt,) Tj ETQq1 1 0.784314 rgBT / 2008, 461, 91-113.	2.2	106
52	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
53	Quartz c-axis fabrics of poly-deformed leucocratic gneisses from the Aracena metamorphic belt (SW Tj ETQq1 1 0.784314 rgBT /Overl 1.2	1.2	5
54	Oblique rifting at Tempe Fossae, Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12

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55	Development of lattice preferred orientation in clin amphiboles deformed under low-pressure metamorphic conditions. A SEM/EBSD study of metabasites from the Aracena metamorphic belt (SW Tj ETQq1 1 02784314 88BT /Over	2.8	11
56	Miocene rifting of Fuerteventura (Canary Islands). <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	11
57	Evidences for a Noachianâ€“Hesperian orogeny in Mars. <i>Icarus</i> , 2006, 185, 331-357.	2.5	55
58	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
59	Sr-rich minerals in a carbonatite skarn, Fuerteventura, Canary Islands (Spain). <i>Mineralogy and Petrology</i> , 2005, 84, 107-127.	1.1	28
60	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
61	Mesozoic tectonic evolution of the southwest continental Iberian Margin. <i>Geodinamica Acta</i> , 2005, 18, 131-144.	2.2	2
62	New evidence for a volcanically, tectonically, and climatically active Mars. <i>Icarus</i> , 2004, 172, 573-581.	2.5	20
63	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
64	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
65	The Appinite-Migmatite Complex of Sanabria, NW Iberian Massif, Spain. <i>Journal of Petrology</i> , 2003, 44, 1309-1344.	2.8	80
66	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
67	Experimental Constraints on Hercynian Anatexis in the Iberian Massif, Spain. <i>Journal of Petrology</i> , 2000, 41, 1471-1488.	2.8	100
68	Understanding granites: integrating new and classical techniques. <i>Geological Society Special Publication</i> , 1999, 168, 1-5.	1.3	34
69	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
70	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
71	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
72	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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73	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
74	Significance of MORB-derived Amphibolites from the Aracena Metamorphic Belt, Southwest Spain. <i>Journal of Petrology</i> , 1996, 37, 235-260.	2.8	81