

JosÃ© Alberto PadrÃ³n-Navarta

List of Publications by Year in descending order

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54
papers

2,485
citations

172443

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docs citations

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1868
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#	ARTICLE	IF	CITATIONS
1	The role of serpentinites in cycling of carbon and sulfur: Seafloor serpentinization and subduction metamorphism. <i>Lithos</i> , 2013, 178, 40-54.	1.4	193
2	Recycling of water, carbon, and sulfur during subduction of serpentinites: A stable isotope study of Cerro del Almirez, Spain. <i>Earth and Planetary Science Letters</i> , 2012, 327-328, 50-60.	4.4	153
3	Tschermak's substitution in antigorite and consequences for phase relations and water liberation in high-grade serpentinites. <i>Lithos</i> , 2013, 178, 186-196.	1.4	153
4	Metamorphic Record of High-pressure Dehydration of Antigorite Serpentinite to Chlorite Harzburgite in a Subduction Setting (Cerro del Almirez, Nevado-Filabride Complex, Southern Spain). <i>Journal of Petrology</i> , 2011, 52, 2047-2078.	2.8	147
5	An experimental investigation of antigorite dehydration in natural silica-enriched serpentinite. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 25-42.	3.1	110
6	Formation of ferrian chromite in podiform chromitites from the Golyamo Kamenyane serpentinite, Eastern Rhodopes, SE Bulgaria: a two-stage process. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 643-657.	3.1	109
7	Site-specific hydrogen diffusion rates in forsterite. <i>Earth and Planetary Science Letters</i> , 2014, 392, 100-112.	4.4	108
8	Garnet lherzolite and garnet-spinel mylonite in the Ronda peridotite: Vestiges of Oligocene backarc mantle lithospheric extension in the western Mediterranean. <i>Geology</i> , 2011, 39, 927-930.	4.4	91
9	UHP Metamorphism Documented in Ti-chondrodite- and Ti-clinohumite-bearing Serpentinized Ultramafic Rocks from Chinese Southwestern Tianshan. <i>Journal of Petrology</i> , 2015, 56, 1425-1458.	2.8	87
10	Redox state of iron during high-pressure serpentinite dehydration. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	76
11	Building an island-arc crustal section: Time constraints from a LA-ICP-MS zircon study. <i>Earth and Planetary Science Letters</i> , 2011, 309, 268-279.	4.4	68
12	11B-rich fluids in subduction zones: The role of antigorite dehydration in subducting slabs and boron isotope heterogeneity in the mantle. <i>Chemical Geology</i> , 2014, 376, 20-30.	3.3	66
13	A Subsolidus Olivine Water Solubility Equation for the Earth's Upper Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9862-9880.	3.4	63
14	Fluid transfer into the wedge controlled by high-pressure hydrofracturing in the cold top-slab mantle. <i>Earth and Planetary Science Letters</i> , 2010, 297, 271-286.	4.4	62
15	Plastic deformation and development of antigorite crystal preferred orientation in high-pressure serpentinites. <i>Earth and Planetary Science Letters</i> , 2012, 349-350, 75-86.	4.4	58
16	Late Variscan magmatism in the Nevado-Filabride Complex: U-Pb geochronologic evidence for the pre-Mesozoic nature of the deepest Betic complex (SE Spain). <i>Lithos</i> , 2012, 146-147, 93-111.	1.4	57
17	Element mobility from seafloor serpentinization to high-pressure dehydration of antigorite in subducted serpentinite: Insights from the Cerro del Almirez ultramafic massif (southern Spain). <i>Lithos</i> , 2013, 178, 128-142.	1.4	54
18	Backarc basin inversion and subcontinental mantle emplacement in the crust: kilometre-scale folding and shearing at the base of the proto-AlborÃ¡n lithospheric mantle (Betic Cordillera, southern Spain). <i>Journal of the Geological Society</i> , 2013, 170, 47-55.	2.1	51

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19	Halogens and noble gases in serpentinites and secondary peridotites: Implications for seawater subduction and the origin of mantle neon. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 285-304.	3.9	47
20	Highly ordered antigorite from Cerro del Almirez HP-HT serpentinites, SE Spain. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 679-688.	3.1	44
21	A Late Oligocene Suprasubduction Setting in the Westernmost Mediterranean Revealed by Intrusive Pyroxenite Dikes in the Ronda Peridotite (Southern Spain). <i>Journal of Geology</i> , 2012, 120, 237-247.	1.4	43
22	Deformation processes and rheology of pyroxenites under lithospheric mantle conditions. <i>Journal of Structural Geology</i> , 2012, 39, 138-157.	2.3	41
23	Breakdown mechanisms of titanclinochumite in antigorite serpentinite (Cerro del Almirez massif, S.) <i>Tj ETQq1 1 0.784314 rgBTJ Overl</i>	1.4	40
24	Fluid-assisted strain localization in the shallow subcontinental lithospheric mantle. <i>Lithos</i> , 2016, 262, 636-650.	1.4	38
25	Alteration patterns of chromian spinels from La CabaÃ±a peridotite, south-central Chile. <i>Mineralogy and Petrology</i> , 2014, 108, 819-836.	1.1	35
26	Diffusion of Ti and some Divalent Cations in Olivine as a Function of Temperature, Oxygen Fugacity, Chemical Potentials and Crystal Orientation. <i>Journal of Petrology</i> , 2016, 57, 1983-2010.	2.8	32
27	Hydrous melts weaken the mantle, crystallization of pargasite and phlogopite does not: Insights from a petrostructural study of the Finero peridotites, southern Alps. <i>Earth and Planetary Science Letters</i> , 2017, 477, 59-72.	4.4	32
28	Hydrogen diffusion in Ti-doped forsterite and the preservation of metastable point defects. <i>American Mineralogist</i> , 2016, 101, 1571-1583.	1.9	31
29	Subduction- and exhumation-related structures preserved in metaserpentinites and associated metasediments from the NevadoÃ±abride Complex (Betic Cordillera, SE Spain). <i>Tectonophysics</i> , 2015, 644-645, 40-57.	2.2	30
30	Strain Localization in Pyroxenite by Reaction-Enhanced Softening in the Shallow Subcontinental Lithospheric Mantle. <i>Journal of Petrology</i> , 2013, 54, 1997-2031.	2.8	29
31	On topotaxy and compaction during antigorite and chlorite dehydration: an experimental and natural study. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	26
32	Compositional effects on the solubility of minor and trace elements in oxide spinel minerals: Insights from crystal-crystal partition coefficients in chromite exsolution. <i>American Mineralogist</i> , 2016, 101, 1360-1372.	1.9	26
33	FTIR spectroscopy of Ti-chondrodite, Ti-clinochumite, and olivine in deeply subducted serpentinites and implications for the deep water cycle. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	25
34	Oriented growth of garnet by topotactic reactions and epitaxy in high-pressure, mafic garnet granulite formed by dehydration melting of metastable hornblendeÃ±gabbro (Jijal Complex,) <i>Tj ETQq0 0 0 rgBTJ Overl</i>	3.1	25
35	Hyperextension of continental to oceanic-like lithosphere: The record of late gabbros in the shallow subcontinental lithospheric mantle of the westernmost Mediterranean. <i>Tectonophysics</i> , 2015, 650, 65-79.	2.2	22
36	<i>In Situ</i> Oxygen Isotope Determination in Serpentine Minerals by Ion Microprobe: Reference Materials and Applications to Ultrahigh-Pressure Serpentinized Rocks. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 459-479.	3.1	22

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37	The role of silica in the hydrous metamorphism of chromite. <i>Ore Geology Reviews</i> , 2017, 90, 274-286.	2.7	20
38	Titanian clinohumite and chondrodite in antigorite serpentinites from Central Chile: evidence for deep and cold subduction. <i>European Journal of Mineralogy</i> , 2017, 29, 959-970.	1.3	18
39	Textural evolution during high-pressure dehydration of serpentinite to peridotite and its relation to stress orientations and kinematics of subducting slabs: Insights from the Almiraz ultramafic massif. <i>Lithos</i> , 2018, 320-321, 470-489.	1.4	18
40	Sensitive high resolution ion microprobe $\delta^{18}\text{O}$ stable isotope (SHRIMP-SI) analysis of water in silicate glasses and nominally anhydrous reference minerals. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1706-1722.	3.0	17
41	Sea-level stability over geological time owing to limited deep subduction of hydrated mantle. <i>Nature Geoscience</i> , 2022, 15, 423-428.	12.9	13
42	FTIR and Raman spectroscopy characterization of fluorine-bearing titanian clinohumite in antigorite serpentinite and chlorite harzburgite. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	12
43	The stability of hydrous phases beyond antigorite breakdown for a magnetite-bearing natural serpentinite between 6.5 and 11 GPa. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	12
44	Changes in the cell parameters of antigorite close to its dehydration reaction at subduction zone conditions. <i>American Mineralogist</i> , 2020, 105, 569-582.	1.9	12
45	Relative diffusivities of hydrous defects from a partially dehydrated natural olivine. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 1-13.	0.8	11
46	Flow in the western Mediterranean shallow mantle: Insights from xenoliths in Pliocene alkali basalts from SE Iberia (eastern Betics, Spain). <i>Tectonics</i> , 2016, 35, 2657-2676.	2.8	10
47	Tectono-metamorphic evolution of subduction channel serpentinites from South-Central Chile. <i>Lithos</i> , 2019, 336-337, 221-241.	1.4	10
48	Non-hydrostatic stress field orientation inferred from orthopyroxene (Pbc) to low-clinoenstatite (P21/c) inversion in partially dehydrated serpentinites. <i>American Mineralogist</i> , 2018, 103, 993-1001.	1.9	9
49	Alpine Orogeny: Deformation and Structure in the Southern Iberian Margin (Betics s.l.). <i>Regional Geology Reviews</i> , 2019, , 453-486.	1.2	8
50	Lithological Successions of the Internal Zones and Flysch Trough Units of the Betic Chain. <i>Regional Geology Reviews</i> , 2019, , 377-432.	1.2	8
51	Porphyroclasts: Source and Sink of Major and Trace Elements During Deformation-Induced Metasomatism (Finero, Ivrea-Verbano Zone, Italy). <i>Geosciences (Switzerland)</i> , 2020, 10, 196.	2.2	7
52	Abiotic passive nitrogen and methane enrichment during exhumation of subducted rocks: Primary multiphase fluid inclusions in high-pressure rocks from the Cabo Ortegal Complex, NW Spain. <i>Journal of Metamorphic Geology</i> , 2022, 40, 1291-1319.	3.4	7
53	Geochemical evolution of rodingites during subduction: insights from Cerro del Almiraz (southern Tj ETQq1 1 0.784314 rgBT /Overlook	1.4	1
54	Hydrogen diffusion in Ti-doped forsterite and the preservation of metastable point defects. <i>American Mineralogist</i> , 2018, , .	1.9	1