

RaÃ³l O C Fonseca

List of Publications by Year in descending order

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53
papers

1,934
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257450

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docs citations

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1656
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#	ARTICLE	IF	CITATIONS
1	Constraining the process of intracontinental subduction in the Austroalpine Nappes: Implications from petrology and Lu-Hf geochronology of eclogites. <i>Journal of Metamorphic Geology</i> , 2022, 40, 423-456.	3.4	13
2	The redox dependence of titanium isotope fractionation in synthetic Ti-rich lunar melts. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	18
3	A remarkable discovery of electrum on the island of Sylt, northern Germany, and its Scandinavian origin. <i>European Journal of Mineralogy</i> , 2021, 33, 373-387.	1.3	1
4	Reply to: No 182W evidence for early Moon formation. <i>Nature Geoscience</i> , 2021, 14, 716-718.	12.9	6
5	Formation mechanisms of macroscopic globules in andesitic glasses from the Izu-Bonin-Mariana forearc (IODP Expedition 352). <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	4
6	Partition behavior of platinum-group elements during the segregation of arsenide melts from sulfide magma. <i>American Mineralogist</i> , 2020, 105, 1889-1897.	1.9	8
7	Development of a Bi/Tl separation scheme for the proof of ^{209}Bi λ -decay in old mineral samples. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 325, 357-363.	1.5	0
8	Concentrations of Pt, Pd, S, As, Se and Te in silicate melts at sulfide, arsenide, selenide and telluride saturation: evidence of PGE complexing in silicate melts?. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	15
9	Two metamorphic gold mineralization events confirmed by Lu-Hf isotope dating of garnet in the Late Archean StorÅ, Au deposit, Nuuk region of SW Greenland. <i>Ore Geology Reviews</i> , 2020, 121, 103476.	2.7	5
10	Lu-Hf geochronology of ultra-high-pressure eclogites from the TromsÅ-Nappe, Scandinavian Caledonides: evidence for rapid subduction and exhumation. <i>International Journal of Earth Sciences</i> , 2020, 109, 1727-1742.	1.8	7
11	Early Moon formation inferred from hafnium-tungsten systematics. <i>Nature Geoscience</i> , 2019, 12, 696-700.	12.9	70
12	Two high-pressure metamorphic events, Variscan and Alpine, dated by Lu-Hf in an eclogite complex of the Austroalpine nappes (Schobergruppe, Austria). <i>International Journal of Earth Sciences</i> , 2019, 108, 1317-1331.	1.8	22
13	Late Cretaceous eclogite in the Eastern Rhodopes (Bulgaria): evidence for subduction under the Sredna Gora magmatic arc. <i>International Journal of Earth Sciences</i> , 2018, 107, 2083-2099.	1.8	10
14	Re-Os and HSE in individual base metal sulfide grains: Evaluating micro-analytical procedures using a sulfide reference material. <i>Chemical Geology</i> , 2018, 493, 426-440.	3.3	2
15	Mesoarchean melting and Neoproterozoic to Paleoproterozoic metasomatism during the formation of the cratonic mantle keel beneath West Greenland. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 37-53.	3.9	12
16	Chalcophile Elements and Sulfides in the Upper Mantle. <i>Elements</i> , 2017, 13, 111-116.	0.5	48
17	Fractionation of rhenium from osmium during noble metal alloy formation in association with sulfides: Implications for the interpretation of model ages in alloy-bearing magmatic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 216, 184-200.	3.9	14
18	The behavior of Pt, Pd, Cu and Ni in the Se-sulfide system between 1050 and 700 Å°C and the role of Se in platinum-group elements fractionation in sulfide melts. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 216, 141-152.	3.9	16

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19	Fingerprinting fluid sources in Troodos ophiolite complex orbicular glasses using high spatial resolution isotope and trace element geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 145-166.	3.9	20
20	Silicate Earth's missing niobium may have been sequestered into asteroidal cores. <i>Nature Geoscience</i> , 2017, 10, 822-826.	12.9	21
21	The great sulfur depletion of Earth's mantle is not a signature of mantle-core equilibration. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	21
22	Redox dependent behaviour of molybdenum during magmatic processes in the terrestrial and lunar mantle: Implications for the Mo/W of the bulk silicate Moon. <i>Earth and Planetary Science Letters</i> , 2017, 474, 503-515.	4.4	27
23	Middle Ordovician subduction of continental crust in the Scandinavian Caledonides: an example from Tjeliken, Seve Nappe Complex, Sweden. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	35
24	Nanoscale variations in ^{187}Os isotopic composition and HSE systematics in a Bultfontein peridotite. <i>Earth and Planetary Science Letters</i> , 2016, 447, 60-71.	4.4	15
25	The effect of titanium on the partitioning behavior of high-field strength elements between silicates, oxides and lunar basaltic melts with applications to the origin of mare basalts. <i>Chemical Geology</i> , 2016, 440, 219-238.	3.3	23
26	Timing of eclogite-facies metamorphism of mafic and ultramafic rocks from the Pohorje Mountains (Eastern Alps, Slovenia) based on Lu-Hf garnet geochronometry. <i>Lithos</i> , 2016, 262, 576-585.	1.4	17
27	Devonian subduction and syncollisional exhumation of continental crust in Lofoten, Norway. <i>Geology</i> , 2016, 44, 223-226.	4.4	25
28	High-pressure metamorphic age and significance of eclogite-facies continental fragments associated with oceanic lithosphere in the Western Alps (Etirol-Levaz Slice, Valtournenche, Italy). <i>Lithos</i> , 2016, 252-253, 145-159.	1.4	22
29	Investigating metasomatic effects on the ^{187}Os isotopic signature: A case study on micrometric base metal sulphides in metasomatised peridotite from the Letlhakane kimberlite (Botswana). <i>Lithos</i> , 2015, 232, 35-48.	1.4	23
30	Understanding Re-Os systematics and model ages in metamorphosed Archean ultramafic rocks: A single mineral to whole-rock investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 205-240.	3.9	14
31	Spheroidal textures in igneous rocks – Textural consequences of H_2O saturation in basaltic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 241-252.	3.9	41
32	Dating the initiation of Piemonte-Liguria Ocean subduction: Lu-Hf garnet chronometry of eclogites from the Theodul Glacier Unit (Zermatt-Saas zone, Switzerland). <i>Swiss Journal of Geosciences</i> , 2015, 108, 183-199.	1.2	26
33	The mechanism of borosilicate glass corrosion revisited. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 112-129.	3.9	137
34	An experimental study of the partitioning of trace elements between rutile and silicate melt as a function of oxygen fugacity. <i>Anais Da Academia Brasileira De Ciencias</i> , 2014, 86, 1609-1629.	0.8	12
35	Lu-Hf garnet systematics of a polymetamorphic basement unit: new evidence for coherent exhumation of the Adula Nappe (Central Alps) from eclogite-facies conditions. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	25
36	Redox controls on tungsten and uranium crystal/silicate melt partitioning and implications for the U/W and Th/W ratio of the lunar mantle. <i>Earth and Planetary Science Letters</i> , 2014, 404, 1-13.	4.4	40

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37	The solubility of palladium and ruthenium in picritic melts: 2. The effect of sulfur. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 108, 172-183.	3.9	75
38	Noble metal nanoclusters and nanoparticles precede mineral formation in magmatic sulphide melts. <i>Nature Communications</i> , 2013, 4, 2405.	12.8	89
39	Lu-Hf isotope evidence for Paleoproterozoic metamorphism and deformation of Archean oceanic crust along the Dharwar Craton margin, southern India. <i>Precambrian Research</i> , 2013, 233, 206-222.	2.7	35
40	Sulfide oxidation as a process for the formation of copper-rich magmatic sulfides. <i>Mineralium Deposita</i> , 2013, 48, 115-127.	4.1	38
41	Micro-analytical uranium isotope and chemical investigations of zircon crystals from the Chernobyl lava and their nuclear fuel inclusions. <i>Journal of Nuclear Materials</i> , 2013, 439, 51-56.	2.7	20
42	The U/Pb ratio of the Earth's mantle: A signature of late volatile addition. <i>Earth and Planetary Science Letters</i> , 2013, 362, 237-245.	4.4	54
43	Noble metals potential of sulfide-saturated melts from the subcontinental lithosphere. <i>Geology</i> , 2013, 41, 575-578.	4.4	20
44	Fractionation of platinum, palladium, nickel, and copper in sulfide-arsenide systems at magmatic temperature. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1725-1737.	3.1	57
45	Pattern Formation in Silicate Glass Corrosion Zones. <i>International Journal of Applied Glass Science</i> , 2013, 4, 357-370.	2.0	50
46	New constraints on the genesis and long-term stability of Os-rich alloys in the Earth's mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 227-242.	3.9	97
47	Timing of high-pressure metamorphic events in the Bulgarian Rhodopes from Lu-Hf garnet geochronology. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 897-921.	3.1	48
48	Solubility of Os and Ir in sulfide melt: Implications for Re/Os fractionation during mantle melting. <i>Earth and Planetary Science Letters</i> , 2011, 311, 339-350.	4.4	76
49	Solubility of palladium in picritic melts: 1. The effect of iron. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2989-2998.	3.9	49
50	Partitioning of Se, As, Sb, Te and Bi between monosulfide solid solution and sulfide melt: Application to magmatic sulfide deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6174-6179.	3.9	141
51	Solubility of Pt in sulphide mattes: Implications for the genesis of PGE-rich horizons in layered intrusions. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5764-5777.	3.9	110
52	Oxygen solubility and speciation in sulphide-rich mattes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2619-2635.	3.9	68
53	How chalcophile is rhenium? An experimental study of the solubility of Re in sulphide mattes. <i>Earth and Planetary Science Letters</i> , 2007, 260, 537-548.	4.4	84