

Anne Sophie Bouvier

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,386
citations

279798

23
h-index

377865

34
g-index

80
all docs

80
docs citations

80
times ranked

1646
citing authors

#	ARTICLE	IF	CITATIONS
1	The fate of a travertine record: Impact of early diagenesis on the $\delta^{18}O$ core (Mammoth Hot Springs,) Tj ETQq1 1 0,784314 rgBT /Over	1.7	5
2	Interplay between fluid circulation and Alpine metamorphism in the Monte Rosa whiteschist from white mica and quartz in situ oxygen isotope analysis by SIMS. <i>American Mineralogist</i> , 2022, 107, 860-872.	1.9	1
3	Diffusion anisotropy of Ti in zircon and implications for Ti-in-zircon thermometry. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117317.	4.4	15
4	Deciphering Degassing and Source Effects in Cl Isotopes in Melt Inclusions: The Possible Role of Amphibole in the Magma Source of Stromboli (Aeolian Island Arc). <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	1
5	Episodic fluid flow in an eclogite-facies shear zone: Insights from Li isotope zoning in garnet. <i>Geology</i> , 2022, 50, 746-750.	4.4	10
6	Chlorine isotope behavior in subduction zone settings revealed by olivine-hosted melt inclusions from the Central America Volcanic Arc. <i>Earth and Planetary Science Letters</i> , 2022, 581, 117414.	4.4	2
7	Degassing from magma reservoir to eruption in silicic systems: The Li elemental and isotopic record from rhyolitic melt inclusions and host quartz in a Yellowstone rhyolite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 326, 56-76.	3.9	9
8	Melt inclusion formation during olivine recrystallization: Evidence from stable isotopes. <i>Earth and Planetary Science Letters</i> , 2022, 592, 117638.	4.4	1
9	Carbon partitioning between metal and silicate melts during Earth accretion. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116659.	4.4	17
10	High-spatial-resolution measurements of iron isotopes in pyrites by secondary ion mass spectrometry using the new Hyperion radio-frequency plasma source. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8986.	1.5	8
11	Zircon petrochronology in large igneous provinces reveals upper crustal contamination processes: new U-Pb ages, Hf and O isotopes, and trace elements from the Central Atlantic magmatic province (CAMP). <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	25
12	Fluid mixing as primary trigger for cassiterite deposition: Evidence from in situ $\delta^{18}O$ - $\delta^{11}B$ analysis of tourmaline from the world-class San Rafael tin (-copper) deposit, Peru. <i>Earth and Planetary Science Letters</i> , 2021, 563, 116889.	4.4	23
13	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. <i>Chemical Geology</i> , 2021, 570, 120145.	3.3	40
14	A Method for Secondary Ion Mass Spectrometry Measurement of Lithium Isotopes in Garnet: The Utility of Glass Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 477-499.	3.1	13
15	Tracking fluid mixing in epithermal deposits - Insights from in-situ $\delta^{18}O$ and trace element composition of hydrothermal quartz from the giant Cerro de Pasco polymetallic deposit, Peru. <i>Chemical Geology</i> , 2021, 576, 120277.	3.3	8
16	Tracing sulfur sources in the crust via SIMS measurements of sulfur isotopes in apatite. <i>Chemical Geology</i> , 2021, 579, 120242.	3.3	9
17	A modern scleractinian coral with a two-component calcite-argonite skeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	22
18	Improving our understanding of LIP emplacement ages using petrology, thermal modelling, and geochemistry of zircon crystals: a case study from the Central Atlantic Magmatic Province. , 2021, , .		0

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19	A positive iron isotope excursion recorded in micropyrates at the Smithian-Spathian (Early Triassic) boundary. , 2021, , .		0
20	Differential record of pre- and syn-eruptive degassing of a large rhyolitic system recorded by Li, H, and ^{7}Li diffusion between quartz, melt inclusions and groundmass glasses. , 2021, , .		0
21	The Gondwanan margin in West Antarctica: Insights from Late Triassic magmatism of the Antarctic Peninsula. <i>Gondwana Research</i> , 2020, 81, 1-20.	6.0	22
22	Li isotope zoning in garnet from Franciscan eclogite and amphibolite: The role of subduction-related fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 198-213.	3.9	7
23	Multispecies Diffusion of Yttrium, Rare Earth Elements and Hafnium in Garnet. <i>Journal of Petrology</i> , 2020, 61, .	2.8	26
24	Low Temperature Serpentinite Replacement by Carbonates during Seawater Influx in the Newfoundland Margin. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 184.	2.0	14
25	Assessing the impact of diagenesis on foraminiferal geochemistry from a low latitude, shallow-water drift deposit. <i>Earth and Planetary Science Letters</i> , 2020, 545, 116390.	4.4	9
26	New Reference Materials and Assessment of Matrix Effects for SIMS Measurements of Oxygen Isotopes in Garnet. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 459-471.	3.1	14
27	Development and Reâ€Evaluation of Tourmaline Reference Materials for In Situ Measurement of Boron δ Values by Secondary Ion Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 593-615.	3.1	8
28	In situ High Resolution Measurements of Fe Isotope Composition in Micro-Pyrite Using Hyperion Radio Frequency Source on IMS 1280 HR2. , 2020, , .		0
29	Tracking Volatile Degassing of an Explosive, Rhyolitic Eruption Using Lithium Isotopes. , 2020, , .		0
30	Modern and Ancient Hydrosphere-Rock Interactions Constrained from Triple Oxygen Isotope and $\delta^{18}\text{O}$ Measurements. , 2020, , .		0
31	SIMS Analysis of Si Isotope for Radiolarian Test in Mesozoic Bedded Chert, Inuyama, Central Japan. , 2020, , .		0
32	Link between Fluids and Stable Isotope Disequilibrium between Melt Inclusions and Host Olivine. , 2020, , .		0
33	An Integrated $\text{O}^{2\text{O}}$ -Hf-U/Pb Isotope Study of Zircon on Crustal Growth in the Yavapai Province of Colorado. , 2020, , .		1
34	SIMS analysis of Si isotope for radiolarian test in Mesozoic bedded chert, Inuyama, central Japan. <i>Bulletin of the Geological Survey of Japan</i> , 2020, 71, 331-353.	0.7	3
35	Oxygen isotope analysis of Mesozoic radiolarites using SIMS. <i>Bulletin of the Geological Survey of Japan</i> , 2020, 71, 355-393.	0.7	1
36	Origin of Monte Rosa whiteschist from in-situ tourmaline and quartz oxygen isotope analysis by SIMS using new tourmaline reference materials. <i>American Mineralogist</i> , 2019, 104, 1503-1520.	1.9	13

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37	Diffusion of calcium in forsterite and ultra-high resolution of experimental diffusion profiles in minerals using local electrode atom probe tomography. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 85-95.	3.9	11
38	Reactive fluid infiltration along fractures: Textural observations coupled to in-situ isotopic analyses. <i>Earth and Planetary Science Letters</i> , 2019, 519, 264-273.	4.4	11
39	Oxygen isotope speedometry in granulite facies garnet recording fluid/melt-rock interaction (SÃ,r) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.4	16
40	Grain scale processes recorded by oxygen isotopes in olivine-hosted melt inclusions from two MORB samples. <i>Chemical Geology</i> , 2019, 511, 11-20.	3.3	4
41	Experimental Melting of Hydrothermally Altered Rocks: Constraints for the Generation of Low- $\delta^{18}O$ Rhyolites in the Central Snake River Plain. <i>Journal of Petrology</i> , 2019, 60, 1881-1902.	2.8	7
42	Time and duration of chondrule formation: Constraints from ^{26}Al - ^{26}Mg ages of individual chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 416-436.	3.9	74
43	Tracing of Cl input into the sub-arc mantle through the combined analysis of B, O and Cl isotopes in melt inclusions. <i>Earth and Planetary Science Letters</i> , 2019, 507, 30-39.	4.4	13
44	STOPPING CRYSTAL CLOCKS: THE ROLE OF ELECTRONS IN ARRESTING DIFFUSION OF LITHIUM IN SUBDUCTION ZONE GARNETS. , 2019, , .		0
45	Carbonatitic dykes during Pangaea transtension (Pelagonian Zone, Greece). <i>Lithos</i> , 2018, 302-303, 329-340.	1.4	4
46	Pervasive Eclogitization Due to Brittle Deformation and Rehydration of Subducted Basement: Effects on Continental Recycling?. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 865-881.	2.5	14
47	Mineralized breccia clasts: a window into hidden porphyry-type mineralization underlying the epithermal polymetallic deposit of Cerro de Pasco (Peru). <i>Mineralium Deposita</i> , 2018, 53, 919-946.	4.1	26
48	The role of crustal melting in the formation of rhyolites: Constraints from SIMS oxygen isotope data (Chon Aike Province, Patagonia, Argentina). <i>American Mineralogist</i> , 2018, 103, 2011-2027.	1.9	15
49	First Lu-Hf, $\delta^{18}O$ and trace elements in zircon signatures from the Statherian EspinhaÃo anorogenic province (Eastern Brazil): geotectonic implications of a silicic large igneous province. <i>Brazilian Journal of Geology</i> , 2018, 48, 735-759.	0.7	29
50	Multi fluid-flow record during episodic mode I opening: A microstructural and SIMS study (Cotiella) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.4	18
51	Zircon petrochronology reveals the timescale and mechanism of anatectic magma formation. <i>Earth and Planetary Science Letters</i> , 2018, 495, 213-223.	4.4	40
52	A NanoSIMS Investigation on Timescales Recorded in Volcanic Quartz From the Silicic Chon Aike Province (Patagonia). <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	12
53	Significance of OH, F and Cl content in biotite during metamorphism of the Western Adamello contact aureole. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	7
54	Accurate Measurements of H ₂ O, F and Cl Contents in Biotite Using Secondary Ion Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 523-537.	3.1	4

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55	The dark side of zircon: textural, age, oxygen isotopic and trace element evidence of fluid saturation in the subvolcanic reservoir of the Island Park-Mount Jackson Rhyolite, Yellowstone (USA). <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	31
56	Evaluation of potential monazite reference materials for oxygen isotope analyses by SIMS and laser assisted fluorination. <i>Chemical Geology</i> , 2017, 450, 199-209.	3.3	13
57	Experimental determination of melt interconnectivity and electrical conductivity in the upper mantle. <i>Earth and Planetary Science Letters</i> , 2017, 463, 286-297.	4.4	44
58	SIMS chlorine isotope analyses in melt inclusions from arc settings. <i>Chemical Geology</i> , 2017, 449, 112-122.	3.3	25
59	Reconstruction of multiple P-T-t stages from retrogressed mafic rocks: Subduction versus collision in the Southern Brasília orogen (SE Brazil). <i>Lithos</i> , 2017, 294-295, 283-303.	1.4	56
60	Biotite Reference Materials for Secondary Ion Mass Spectrometry $^{18}\text{O}/^{16}\text{O}$ Measurements. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 243-253.	3.1	17
61	Quartz Reference Materials for Oxygen Isotope Analysis by SIMS. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 69-75.	3.1	30
62	Weekly to monthly time scale of melt inclusion entrapment prior to eruption recorded by phosphorus distribution in olivine from mid-ocean ridges. <i>Geology</i> , 2017, 45, 1059-1062.	4.4	25
63	IN-SITU OXYGEN ISOTOPE STUDY OF TOURMALINE AND QUARTZ: INSIGHTS INTO THE PROGRADE TEMPERATURE HISTORY. , 2017, , .		0
64	Melt Extraction Zones in Shallow Arc Plutons: Insights from Fisher Lake Orbicules (Sierra Nevada,) Tj ETQq0 0 0 r gBT /Overlock 10 Tf 50 2.8		
65	Contrasting hydrological processes of meteoric water incursion during magmatic-hydrothermal ore deposition: An oxygen isotope study by ion microprobe. <i>Earth and Planetary Science Letters</i> , 2016, 451, 263-271.	4.4	55
66	Heterogeneous melt and hypersaline liquid inclusions in shallow porphyry type mineralization as markers of the magmatic-hydrothermal transition (Cerro de Pasco district, Peru). <i>Chemical Geology</i> , 2016, 447, 93-116.	3.3	38
67	Warm storage for arc magmas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13959-13964.	7.1	88
68	Short magmatic residence times of quartz phenocrysts in Patagonian rhyolites associated with Gondwana breakup. <i>Geology</i> , 2016, 44, 67-70.	4.4	23
69	Evidence for cavity-dwelling microbial life in 3.22 Ga tidal deposits. <i>Geology</i> , 2016, 44, 51-54.	4.4	38
70	REACTIVE FLUID-FLOW AND STABLE ISOTOPE EXCHANGE RELATED TO HYDROTHERMAL VEINS IN CARBONATE XENOLITHS: A COUPLED CL IMAGING AND SIMS STUDY. , 2016, , .		0
71	OXYGEN ISOTOPE CONSTRAINTS ON CRUSTAL MELTING: SIMS DATA FROM JURASSIC RHYOLITES OF THE CHON AIKE PROVINCE (PATAGONIA, ARGENTINA). , 2016, , .		0
72	MULTI FLUID-FLOW EVENTS DURING MODE I OPENING: A MICROSTRUCTURAL AND SIMS STUDY. , 2016, , .		0

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73	WATER CONTENT OF BIOTITE AS MONITOR OF CHANGE IN WATER ACTIVITY. , 2016, , .		0
74	Dynamic growth of garnet in granitic magmas. <i>Geology</i> , 2012, 40, 171-174.	4.4	40
75	Li isotopes and trace elements as a petrogenetic tracer in zircon: insights from Archean TTGs and sanukitoids. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 745-768.	3.1	78
76	Fluid Inputs to Magma Sources of St. Vincent and Grenada (Lesser Antilles): New Insights from Trace Elements in Olivine-hosted Melt Inclusions. <i>Journal of Petrology</i> , 2010, 51, 1597-1615.	2.8	29
77	Light elements, volatiles, and stable isotopes in basaltic melt inclusions from Grenada, Lesser Antilles: Inferences for magma genesis. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	33
78	Slab-Derived Fluids in the Magma Sources of St. Vincent (Lesser Antilles Arc): Volatile and Light Element Imprints. <i>Journal of Petrology</i> , 2008, 49, 1427-1448.	2.8	87