

Denis Fougrouse

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,637
citations

279798

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315739

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61
all docs

61
docs citations

61
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Paleoproterozoic gold events in the southern West African Craton: review and synopsis. <i>Mineralium Deposita</i> , 2022, 57, 513-537.	4.1	20
2	Standardizing Spatial Reconstruction Parameters for the Atom Probe Analysis of Common Minerals. <i>Microscopy and Microanalysis</i> , 2022, 28, 1221-1230.	0.4	11
3	Superimposed microstructures of pyrite in auriferous quartz veins as fingerprints of episodic fluid infiltration in the Wulong Lode gold deposit, NE China. <i>Mineralium Deposita</i> , 2022, 57, 685-700.	4.1	7
4	Dislocations in minerals: Fast-diffusion pathways or trace-element traps?. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117517.	4.4	12
5	Texture and geochemistry of pyrite from the Jinya, Nakuang and Gaolong gold deposits in the Youjiang Basin: implications for basin-scale gold mineralization. <i>Mineralium Deposita</i> , 2022, 57, 1367-1390.	4.1	11
6	Partial retention of radiogenic Pb in galena nanocrystals explains discordance in monazite from Napier Complex (Antarctica). <i>Earth and Planetary Science Letters</i> , 2022, 588, 117567.	4.4	7
7	Nanoparticle suspensions from carbon-rich fluid make high-grade gold deposits. <i>Nature Communications</i> , 2022, 13, .	12.8	10
8	Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , 2021, 49, 417-421.	4.4	21
9	Trace-element segregation to dislocation loops in experimentally heated zircon. <i>American Mineralogist</i> , 2021, 106, 1971-1979.	1.9	7
10	Decoupling of Au and As during rapid pyrite crystallization. <i>Geology</i> , 2021, 49, 827-831.	4.4	35
11	Developing Atom Probe Tomography of Phyllosilicates in Preparation for Extra-Terrestrial Sample Return. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 427-441.	3.1	5
12	A new kind of invisible gold in pyrite hosted in deformation-related dislocations. <i>Geology</i> , 2021, 49, 1225-1229.	4.4	30
13	Lunar samples record an impact 4.2 billion years ago that may have formed the Serenitatis Basin. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	9
14	Disorientation control on trace element segregation in fluid-affected low-angle boundaries in olivine. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	10
15	Xenotime at the Nanoscale: U-Pb Geochronology and Optimisation of Analyses by Atom Probe Tomography. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 443-456.	3.1	10
16	Pre-nucleation geochemical heterogeneity within glassy anatectic inclusions and the role of water in glass preservation. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	8
17	A new method for dating impact events – Thermal dependency on nanoscale Pb mobility in monazite shock twins. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 314, 381-396.	3.9	13
18	Solar wind contributions to Earth's oceans. <i>Nature Astronomy</i> , 2021, 5, 1275-1285.	10.1	22

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19	Life on the edge: Microbial biomineralization in an arsenic- and lead-rich deep-sea hydrothermal vent. <i>Chemical Geology</i> , 2020, 533, 119438.	3.3	10
20	The geochemical and geochronological implications of nanoscale trace-element clusters in rutile. <i>Geology</i> , 2020, 48, 1126-1130.	4.4	16
21	Distribution of trace elements between carbonaceous matter and sulfides in a sediment-hosted orogenic gold system. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 276, 345-362.	3.9	27
22	Novel Applications of FIB-SEM-Based ToF-SIMS in Atom Probe Tomography Workflows. <i>Microscopy and Microanalysis</i> , 2020, 26, 750-757.	0.4	32
23	Fluoridation of a lizard bone embedded in Dominican amber suggests open-system behavior. <i>PLoS ONE</i> , 2020, 15, e0228843.	2.5	11
24	Colloidal gold transport: a key to high-grade gold mineralization?. <i>Mineralium Deposita</i> , 2020, 55, 1247-1254.	4.1	31
25	Atom Probe Tomography: Development and Application to the Geosciences. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 5-50.	3.1	84
26	Volcanic SiO ₂ -cristobalite: A natural product of chemical vapor deposition. <i>American Mineralogist</i> , 2020, 105, 510-524.	1.9	20
27	Nanoscale Isotopic Dating of Monazite. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 637-652.	3.1	15
28	Time-resolved, defect-hosted, trace element mobility in deformed Witwatersrand pyrite. <i>Geoscience Frontiers</i> , 2019, 10, 55-63.	8.4	44
29	Late Jurassic to Early Cretaceous age of the Daqiao gold deposit, West Qinling Orogen, China: implications for regional metallogeny. <i>Mineralium Deposita</i> , 2019, 54, 631-644.	4.1	22
30	Spatial Reconstruction of Atom Probe Data from Zircon. <i>Microscopy and Microanalysis</i> , 2019, 25, 2536-2537.	0.4	6
31	Nanoscale processes of trace element mobility in metamorphosed zircon. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	28
32	Cr-spinel records metasomatism not petrogenesis of mantle rocks. <i>Nature Communications</i> , 2019, 10, 5103.	12.8	42
33	Direct Observation of Nanoparticulate Goethite Recrystallization by Atom Probe Analysis of Isotopic Tracers. <i>Environmental Science & Technology</i> , 2019, 53, 13126-13135.	10.0	19
34	Antimony in rutile as a pathfinder for orogenic gold deposits. <i>Ore Geology Reviews</i> , 2019, 106, 1-11.	2.7	37
35	Analysis of Natural Rutile (TiO ₂) by Laser-assisted Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 539-546.	0.4	16
36	Gold, arsenic, and copper zoning in pyrite: A record of fluid chemistry and growth kinetics. <i>Geology</i> , 2019, 47, 641-644.	4.4	71

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37	Micro- and nano-scale textural and compositional zonation in plagioclase at the Black Mountain porphyry Cu deposit: Implications for magmatic processes. <i>American Mineralogist</i> , 2019, 104, 391-402.	1.9	20
38	Source and possible tectonic driver for Jurassic–Cretaceous gold deposits in the West Qinling Orogen, China. <i>Geoscience Frontiers</i> , 2019, 10, 107-117.	8.4	15
39	Nanoscale constraints on the shock-induced transformation of zircon to reidite. <i>Chemical Geology</i> , 2019, 507, 85-95.	3.3	19
40	Metal remobilization and ore-fluid perturbation during episodic replacement of auriferous pyrite from an epizonal orogenic gold deposit. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 98-117.	3.9	68
41	Nanoscale resetting of the Th/Pb system in an isotopically-closed monazite grain: A combined atom probe and transmission electron microscopy study. <i>Geoscience Frontiers</i> , 2019, 10, 65-76.	8.4	38
42	Nanoscale distribution of Pb in monazite revealed by atom probe microscopy. <i>Chemical Geology</i> , 2018, 479, 251-258.	3.3	39
43	Defining the Potential of Nanoscale ReO Isotope Systematics Using Atom Probe Microscopy. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 279-299.	3.1	13
44	Assessing the mechanisms of common Pb incorporation into titanite. <i>Chemical Geology</i> , 2018, 483, 558-566.	3.3	47
45	Atom probe tomography analysis of the reference zircon g1-1: An interlaboratory study. <i>Chemical Geology</i> , 2018, 495, 27-35.	3.3	27
46	Evidence for Two Stages of Mineralization in West Africa's Largest Gold Deposit: Obuasi, Ghana. <i>Economic Geology</i> , 2017, 112, 3-22.	3.8	55
47	Crystallography of refractory metal nuggets in carbonaceous chondrites: A transmission Kikuchi diffraction approach. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 216, 42-60.	3.9	7
48	Nebula sulfidation and evidence for migration of free-floating refractory metal nuggets revealed by atom probe microscopy. <i>Geology</i> , 2017, 45, 847-850.	4.4	13
49	The golden ark: arsenopyrite crystal plasticity and the retention of gold through high strain and metamorphism. <i>Terra Nova</i> , 2016, 28, 181-187.	2.1	28
50	Nanogeochronology of discordant zircon measured by atom probe microscopy of Pb-enriched dislocation loops. <i>Science Advances</i> , 2016, 2, e1601318.	10.3	86
51	Nanoscale gold clusters in arsenopyrite controlled by growth rate not concentration: Evidence from atom probe microscopy. <i>American Mineralogist</i> , 2016, 101, 1916-1919.	1.9	94
52	Mechanisms of deformation-induced trace element migration in zircon resolved by atom probe and correlative microscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 158-170.	3.9	64
53	Gold remobilisation and formation of high grade ore shoots driven by dissolution-precipitation replacement and Ni substitution into auriferous arsenopyrite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 143-159.	3.9	146
54	The Inata deposit, Belahouro District, northern Burkina Faso. <i>Ore Geology Reviews</i> , 2016, 78, 639-644.	2.7	15

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55	Quantified, multi-scale X-ray fluorescence element mapping using the Maia detector array: application to mineral deposit studies. <i>Mineralium Deposita</i> , 2015, 50, 665-674.	4.1	48