

Denis Fougrouse

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,637
citations

279798

23
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315739

38
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61
all docs

61
docs citations

61
times ranked

1180
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Gold remobilisation and formation of high grade ore shoots driven by dissolution-reprecipitation replacement and Ni substitution into auriferous arsenopyrite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 178, 143-159. | 3.9 | 146 |
| 2 | 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 |
| 3 | Nanogeochronology of discordant zircon measured by atom probe microscopy of Pb-enriched dislocation loops. <i>Science Advances</i> , 2016, 2, e1601318. | 10.3 | 86 |
| 4 | Atom Probe Tomography: Development and Application to the Geosciences. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 5-50. | 3.1 | 84 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Assessing the mechanisms of common Pb incorporation into titanite. <i>Chemical Geology</i> , 2018, 483, 558-566. | 3.3 | 47 |
| 11 | Time-resolved, defect-hosted, trace element mobility in deformed Witwatersrand pyrite. <i>Geoscience Frontiers</i> , 2019, 10, 55-63. | 8.4 | 44 |
| 12 | Cr-spinel records metasomatism not petrogenesis of mantle rocks. <i>Nature Communications</i> , 2019, 10, 5103. | 12.8 | 42 |
| 13 | Nanoscale distribution of Pb in monazite revealed by atom probe microscopy. <i>Chemical Geology</i> , 2018, 479, 251-258. | 3.3 | 39 |
| 14 | 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 |
| 15 | Antimony in rutile as a pathfinder for orogenic gold deposits. <i>Ore Geology Reviews</i> , 2019, 106, 1-11. | 2.7 | 37 |
| 16 | Decoupling of Au and As during rapid pyrite crystallization. <i>Geology</i> , 2021, 49, 827-831. | 4.4 | 35 |
| 17 | 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 |
| 18 | Colloidal gold transport: a key to high-grade gold mineralization?. <i>Mineralium Deposita</i> , 2020, 55, 1247-1254. | 4.1 | 31 |

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|----|---|------|-----------|
| 19 | A new kind of invisible gold in pyrite hosted in deformation-related dislocations. <i>Geology</i> , 2021, 49, 1225-1229. | 4.4 | 30 |
| 20 | 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 |
| 21 | Nanoscale processes of trace element mobility in metamorphosed zircon. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1. | 3.1 | 28 |
| 22 | Atom probe tomography analysis of the reference zircon gj-1: An interlaboratory study. <i>Chemical Geology</i> , 2018, 495, 27-35. | 3.3 | 27 |
| 23 | 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 |
| 24 | 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 |
| 25 | Solar wind contributions to Earth's oceans. <i>Nature Astronomy</i> , 2021, 5, 1275-1285. | 10.1 | 22 |
| 26 | Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , 2021, 49, 417-421. | 4.4 | 21 |
| 27 | 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 |
| 28 | Volcanic SiO ₂ -cristobalite: A natural product of chemical vapor deposition. <i>American Mineralogist</i> , 2020, 105, 510-524. | 1.9 | 20 |
| 29 | Paleoproterozoic gold events in the southern West African Craton: review and synopsis. <i>Mineralium Deposita</i> , 2022, 57, 513-537. | 4.1 | 20 |
| 30 | 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 |
| 31 | Nanoscale constraints on the shock-induced transformation of zircon to reidite. <i>Chemical Geology</i> , 2019, 507, 85-95. | 3.3 | 19 |
| 32 | Analysis of Natural Rutile (TiO ₂) by Laser-assisted Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 539-546. | 0.4 | 16 |
| 33 | The geochemical and geochronological implications of nanoscale trace-element clusters in rutile. <i>Geology</i> , 2020, 48, 1126-1130. | 4.4 | 16 |
| 34 | The Inata deposit, Belahouro District, northern Burkina Faso. <i>Ore Geology Reviews</i> , 2016, 78, 639-644. | 2.7 | 15 |
| 35 | 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 |
| 36 | Nanoscale Isotopic Dating of Monazite. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 637-652. | 3.1 | 15 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | Defining the Potential of Nanoscale Re-Os Isotope Systematics Using Atom Probe Microscopy. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 279-299. | 3.1 | 13 |
| 39 | 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 |
| 40 | Dislocations in minerals: Fast-diffusion pathways or trace-element traps?. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117517. | 4.4 | 12 |
| 41 | Fluoridation of a lizard bone embedded in Dominican amber suggests open-system behavior. <i>PLoS ONE</i> , 2020, 15, e0228843. | 2.5 | 11 |
| 42 | Standardizing Spatial Reconstruction Parameters for the Atom Probe Analysis of Common Minerals. <i>Microscopy and Microanalysis</i> , 2022, 28, 1221-1230. | 0.4 | 11 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Nanoparticle suspensions from carbon-rich fluid make high-grade gold deposits. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 10 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Trace-element segregation to dislocation loops in experimentally heated zircon. <i>American Mineralogist</i> , 2021, 106, 1971-1979. | 1.9 | 7 |
| 52 | 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 |
| 53 | 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 |
| 54 | Spatial Reconstruction of Atom Probe Data from Zircon. <i>Microscopy and Microanalysis</i> , 2019, 25, 2536-2537. | 0.4 | 6 |

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|----|---|-----|-----------|
| 55 | 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 |