

David Saxey

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,444
citations

186265
28
h-index

214800
47
g-index

84
all docs

84
docs citations

84
times ranked

2157
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Standardizing Spatial Reconstruction Parameters for the Atom Probe Analysis of Common Minerals. <i>Microscopy and Microanalysis</i> , 2022, 28, 1221-1230. | 0.4 | 11 |
| 2 | Dislocations in minerals: Fast-diffusion pathways or trace-element traps?. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117517. | 4.4 | 12 |
| 3 | 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 |
| 4 | Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , 2021, 49, 417-421. | 4.4 | 21 |
| 5 | Trace-element segregation to dislocation loops in experimentally heated zircon. <i>American Mineralogist</i> , 2021, 106, 1971-1979. | 1.9 | 7 |
| 6 | 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 |
| 7 | A new kind of invisible gold in pyrite hosted in deformation-related dislocations. <i>Geology</i> , 2021, 49, 1225-1229. | 4.4 | 30 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Solar wind contributions to Earth's oceans. <i>Nature Astronomy</i> , 2021, 5, 1275-1285. | 10.1 | 22 |
| 14 | The geochemical and geochronological implications of nanoscale trace-element clusters in rutile. <i>Geology</i> , 2020, 48, 1126-1130. | 4.4 | 16 |
| 15 | 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 |
| 16 | Atom Probe Tomography: Development and Application to the Geosciences. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 5-50. | 3.1 | 84 |
| 17 | Volcanic SiO ₂ -cristobalite: A natural product of chemical vapor deposition. <i>American Mineralogist</i> , 2020, 105, 510-524. | 1.9 | 20 |
| 18 | Nanoscale Isotopic Dating of Monazite. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 637-652. | 3.1 | 15 |

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|----|---|------|-----------|
| 19 | Time-resolved, defect-hosted, trace element mobility in deformed Witwatersrand pyrite. <i>Geoscience Frontiers</i> , 2019, 10, 55-63. | 8.4 | 44 |
| 20 | Spatial Reconstruction of Atom Probe Data from Zircon. <i>Microscopy and Microanalysis</i> , 2019, 25, 2536-2537. | 0.4 | 6 |
| 21 | Hallâ€™Petch Slope in Ultrafine Grained Al-Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4047-4057. | 2.2 | 11 |
| 22 | Nanoscale processes of trace element mobility in metamorphosed zircon. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1. | 3.1 | 28 |
| 23 | Cr-spinel records metasomatism not petrogenesis of mantle rocks. <i>Nature Communications</i> , 2019, 10, 5103. | 12.8 | 42 |
| 24 | 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 |
| 25 | Analysis of Natural Rutile (TiO ₂) by Laser-assisted Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 539-546. | 0.4 | 16 |
| 26 | 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 |
| 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 | Nanoscale constraints on the shock-induced transformation of zircon to reidite. <i>Chemical Geology</i> , 2019, 507, 85-95. | 3.3 | 19 |
| 29 | 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 |
| 30 | Nanoscale distribution of Pb in monazite revealed by atom probe microscopy. <i>Chemical Geology</i> , 2018, 479, 251-258. | 3.3 | 39 |
| 31 | Defining the Potential of Nanoscale Reâ€™Os Isotope Systematics Using Atom Probe Microscopy. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 279-299. | 3.1 | 13 |
| 32 | Assessing the mechanisms of common Pb incorporation into titanite. <i>Chemical Geology</i> , 2018, 483, 558-566. | 3.3 | 47 |
| 33 | Atomic worlds: Current state and future of atom probe tomography in geoscience. <i>Scripta Materialia</i> , 2018, 148, 115-121. | 5.2 | 39 |
| 34 | Atom probe tomography analysis of the reference zircon gj-1: An interlaboratory study. <i>Chemical Geology</i> , 2018, 495, 27-35. | 3.3 | 27 |
| 35 | Nanoscale Stoichiometric Analysis of a High-Temperature Superconductor by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 414-424. | 0.4 | 18 |
| 36 | Atom probe microscopy of zinc isotopic enrichment in ZnO nanorods. <i>AIP Advances</i> , 2017, 7, . | 1.3 | 7 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Correlative Analysis using FIB-ToF-SIMS and Atom Probe Tomography on Geological Materials. <i>Microscopy and Microanalysis</i> , 2016, 22, 684-685. | 0.4 | 2 |
| 40 | Nanogeochronology of discordant zircon measured by atom probe microscopy of Pb-enriched dislocation loops. <i>Science Advances</i> , 2016, 2, e1601318. | 10.3 | 86 |
| 41 | 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 |
| 42 | 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 |
| 43 | Behavior of molecules and molecular ions near a field emitter. <i>New Journal of Physics</i> , 2016, 18, 033031. | 2.9 | 130 |
| 44 | Atom-probe tomography of surface oxides and oxidized grain boundaries in alloys from nuclear reactors. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1514, 107-118. | 0.1 | 2 |
| 45 | Examinations of Oxidation and Sulfidation of Grain Boundaries in Alloy 600 Exposed to Simulated Pressurized Water Reactor Primary Water. <i>Microscopy and Microanalysis</i> , 2013, 19, 676-687. | 0.4 | 52 |
| 46 | Atom probe tomography characterisation of a laser diode structure grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2012, 111, 053508. | 2.5 | 13 |
| 47 | Nanoscale characterisation of grain boundary oxidation in cold-worked stainless steels. <i>Corrosion Science</i> , 2012, 63, 225-233. | 6.6 | 109 |
| 48 | Analysis of dynamic segregation and crystallisation in Mg ₆₅ Cu ₂₅ Y ₁₀ bulk metallic glass using atom probe tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 558-566. | 5.6 | 11 |
| 49 | Effect of Sn Addition in Preprecipitation Stage in Al-Cu Alloys: A Correlative Transmission Electron Microscopy and Atom Probe Tomography Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2192-2202. | 2.2 | 34 |
| 50 | Atom probe characterization of precipitation in an aged Cu-Ni-P alloy. <i>Ultramicroscopy</i> , 2011, 111, 725-729. | 1.9 | 9 |
| 51 | Some aspects of the field evaporation behaviour of GaSb. <i>Ultramicroscopy</i> , 2011, 111, 487-492. | 1.9 | 77 |
| 52 | Correlated ion analysis and the interpretation of atom probe mass spectra. <i>Ultramicroscopy</i> , 2011, 111, 473-479. | 1.9 | 186 |
| 53 | Atom probe tomography of reactor pressure vessel steels: An analysis of data integrity. <i>Ultramicroscopy</i> , 2011, 111, 676-682. | 1.9 | 38 |
| 54 | Atom probe tomography assessment of the impact of electron beam exposure on In _x Ga _{1-x} N/GaN quantum wells. <i>Applied Physics Letters</i> , 2011, 99, . | 3.3 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Nanoscale characterization of compound semiconductors using laser-pulsed atom probe tomography. Journal of Physics: Conference Series, 2010, 209, 012026. | 0.4 | 5 |
| 56 | Looking Inside the Fascinating Nanoworld Controlling Light Emission from InGaN/GaN Quantum Well Devices. Microscopy and Microanalysis, 2010, 16, 1890-1891. | 0.4 | 0 |
| 57 | Effect of P Content on Stress Relaxation and Clustering Behavior in Cu-Ni-P Alloys. Materials Transactions, 2010, 51, 1802-1808. | 1.2 | 11 |
| 58 | Atom-probe tomography characterization of the oxidation of stainless steel. Scripta Materialia, 2010, 62, 855-858. | 5.2 | 76 |
| 59 | High-resolution nanostructural investigation of Zn ₄ Sb ₃ alloys. Scripta Materialia, 2010, 63, 784-787. | 5.2 | 36 |
| 60 | Microstructural origins of localization in InGaN quantum wells. Journal Physics D: Applied Physics, 2010, 43, 354003. | 2.8 | 78 |
| 61 | Effect of Solute Clusters on Stress Relaxation Behavior in Cu-Ni-P Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2888-2900. | 2.2 | 11 |
| 62 | Nuclear reactor materials at the atomic scale. Materials Today, 2009, 12, 30-37. | 14.2 | 98 |
| 63 | Microstructural evolution of spinodally formed Fe ₃₅ Ni ₁₅ Mn ₂₅ Al ₂₅ . Intermetallics, 2009, 17, 886-893. | 3.9 | 27 |
| 64 | Ge _{1-x} Mn _x Clusters: Central Structural and Magnetic Building Blocks of Nanoscale Wire-Like Self-Assembly in a Magnetic Semiconductor. Nano Letters, 2009, 9, 3743-3748. | 9.1 | 37 |
| 65 | A UK Facility for Atom Probe Tomography Analysis. Microscopy and Microanalysis, 2009, 15, 288-289. | 0.4 | 0 |
| 66 | Atom-probe Tomography of Surface Oxides in a 20% Cold Worked Stainless Steel Tested Under PWR Primary Water Conditions. Microscopy and Microanalysis, 2009, 15, 304-305. | 0.4 | 4 |
| 67 | Atom Probe Tomography Studies of GaN-Based Semiconductor Materials. Microscopy and Microanalysis, 2009, 15, 280-281. | 0.4 | 3 |
| 68 | Three-dimensional atom probe analysis of green- and blue-emitting In _x Ga _{1-x} N/GaN multiple quantum well structures. Journal of Applied Physics, 2008, 104, . | 2.5 | 82 |
| 69 | Atom Probe Tomography at The University of Sydney. Advances in Materials Research, 2008, , 187-216. | 0.2 | 2 |
| 70 | 3D atomic-scale chemical analysis of engineering alloys. , 2008, , 729-730. | | 0 |
| 71 | Recent Advances in FIB-based Site-specific Atom Probe Specimen Preparation Techniques. Microscopy and Microanalysis, 2007, 13, . | 0.4 | 0 |
| 72 | Site-specific specimen preparation for atom probe tomography of grain boundaries. Physica B: Condensed Matter, 2007, 394, 267-269. | 2.7 | 30 |

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|----|---|-----|-----------|
| 73 | Atom probe specimen fabrication methods using a dual FIB/SEM. Ultramicroscopy, 2007, 107, 756-760. | 1.9 | 71 |
| 74 | Characterization of Ni-base Superalloys on the Atomic Scale by Atom Probe Tomography and Spherical-Aberration Corrected Analytical Electron Microscopy Techniques. Microscopy and Microanalysis, 2006, 12, 534-535. | 0.4 | 2 |
| 75 | Preparation of Site Specific Atom Probe Tips using Focused Ion Beam Technology. Microscopy and Microanalysis, 2006, 12, 1296-1297. | 0.4 | 1 |
| 76 | Effect of Trace Addition of Sn in Al-Cu Alloy. Materials Science Forum, 2006, 519-521, 203-208. | 0.3 | 12 |
| 77 | Atom Probe Specimen Fabrication Methods using a Dual FIB/SEM. , 2006, , . | | 0 |
| 78 | Nanonstructural Analysis of Advanced Alloys in a Local Electrode Atom Probe. Microscopy and Microanalysis, 2005, 11, . | 0.4 | 6 |
| 79 | A high-resolution superconducting pressure gauge for studies of critical phenomena in quantum fluids. Physica B: Condensed Matter, 2000, 284-288, 2043-2044. | 2.7 | 1 |